

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-7-01	L1	SHALL	Except as otherwise noted, the definitions in rule 3745-81-01 of the Administrative Code SHALL apply to this chapter.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(A)(1) - L3	SHALL	(1) "Active instruction" means the time when a professional operator is receiving instruction. This does not include break time, introductions or question and answer sessions in excess of fifteen minutes. A professional operator SHALL not claim hours on a renewal application other than those received in active instruction.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(C)(3)-L3	SHALL	(3) "Complete application" means an application submitted with all REQUIRED information on the form completed and all appropriate fees, transcripts and documentation attached. Applications missing any of the listed items SHALL not be considered complete.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(M) - L2	SHALL	Such experience SHALL include, but not be limited to, being directly responsible for plant operations, supervising operating staff, and being responsible for personnel issues.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(M) - L4	SHALL	Experience gained in the position of shift supervisor at a class III or IV facility SHALL qualify as management experience.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(1) - L2	SHALL	When referring to educational experience one year SHALL constitute at least four hundred fifty hours of applicable course work.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(2)(a)(ii)	REQUIRE	On-site investigations and inspections of operations that REQUIRE coordination of work with active treatment processes, collection, or distribution systems.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(2)(a)(iv)	REQUIRE	Construction inspection and engineering design that REQUIRE coordination of the inspection or design with the operation of the active treatment processes, collection, or distribution systems	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(2)(b)(ii)	REQUIRE	On-site investigations and inspections of operations that REQUIRE coordination of work with active treatment processes, collection, or distribution systems.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(2)(d)(vii)	REQUIRE	Construction inspection and engineering design that REQUIRE coordination of the inspection or design with the operation of the active treatment process, sewerage or distribution systems.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(2)(e)(vii)	REQUIRE	Investigations and inspections of operations that do not REQUIRE coordination of work with active treatment processes, collection, or distribution systems.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(2)(e)(viii)	REQUIRE	Construction inspections and engineering design that do not REQUIRE coordination of work with active treatment processes, collection, or distribution systems.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(2)(f)(vii)	REQUIRE	Investigations and inspections of operations that do not REQUIRE coordination of work with active treatment processes, collection, or distribution systems.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(2)(f)(viii)	REQUIRE	Construction inspections and engineering design that do not REQUIRE coordination of work with active treatment processes, collection, or distribution systems.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(2)(d) - L3	SHALL	Beginning one year after the effective date of this rule, for applicants whose actual job responsibilities solely consist of one or more of the following types of experience, in conjunction with the applicant's job description, the experience SHALL qualify as operating experience but may count for no more than twenty-five per cent of the operating experience REQUIREment of each field:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-01	(O)(2)(e) - L3	SHALL	From the effective date of this rule until one year after the effective date of this rule, the following types of experience related to a public water system, a treatment works, a water distribution system, or a sewerage system SHALL not qualify as operating experience:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(O)(2)(f) - L2	SHALL	Beginning one year after the effective date of this rule, the following types of experience related to a public water system, a treatment works, a water distribution system, or a sewerage system SHALL not qualify as operating experience:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(P)(2)(a) - L1	SHALL	For community public water systems, population SHALL be determined in accordance with paragraph (P)(11)(a) of rule 3745-81-01 of the Administrative Code and the addition of the average of the highest sixty days for any non-community population determined using the methods identified in paragraph (P)(11)(b) of rule 3745-81-01 of the Administrative Code	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(P)(2)(b) - L1	SHALL	For noncommunity public water systems, population SHALL be the average of the highest sixty days for any non-community population determined using the methods identified in paragraph (P)(11)(b) of rule 3745-81-01 of the Administrative Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-01	(W)(2) - L1	SHALL	"Wastewater collection system" SHALL mean "sewerage system" as defined in section 6111.01 of the Revised Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(1) - L2	SHALL	Each person owning or operating a public water system, except as provided for in paragraph (B) of this rule, SHALL designate one or more professional operators of record to oversee the technical operation of the public water system or each water treatment plant and distribution system within the public water system.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(1) - L4	SHALL	Each professional operator of record SHALL have a valid certification of a class equal to or greater than the classification of the public water system, distribution system or water treatment plant except as provided for in paragraphs (E) to (G) of this rule	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(1)(a) - L1	SHALL	The owner and professional operator of record of a public water system SHALL notify the director of the identity of a professional operator of record upon initiation or termination of service or upon request by the director.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(1)(b) - L1	SHALL	Notification SHALL be made on a form acceptable to the director within three days of initiation or termination of service or a request by the director.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(2) - L1	SHALL	Each person owning or operating a treatment works or public sewerage system SHALL designate one or more professional operator of record to oversee the technical operation of the treatment works, sewerage system, or each wastewater treatment facility	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(2) - L4	SHALL	Except as provided for in paragraphs (E) to (G) of this rule, each professional operator of record SHALL have a valid certification of a class equal to or greater than the classification of the treatment works, sewerage system, or wastewater treatment facility.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(2)(a) - L1	SHALL	The owner and professional operator of record of a treatment works or sewerage system SHALL notify the director of the identity of a professional operator of record upon initiation or termination of service or upon request by the director.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(2)(b) - L1	SHALL	Notification SHALL be made on a form acceptable to the director within three days of initiation or termination of service or a request by the director.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(3) - L2	SHALL	Each person owning or operating a private sewerage system that has been classified by the director in accordance paragraph (B)(1)(d) of rule 3745-7-04 of the Administrative Code, SHALL designate one or more professional operator of record to oversee the technical operation of the private sewerage system	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(3) - L4	SHALL	Except as provided for in paragraphs (E) to (G) of this rule, each professional operator of record SHALL have a valid certification of a class equal to or greater than the classification of the private sewerage system	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(A)(3)(a) - L1	SHALL	The owner and professional operator of record of a private sewerage system SHALL notify the director of the identity of a professional operator of record upon initiation or termination of service or upon request by the director	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-02	(A)(3)(b) - L1	SHALL	Notification SHALL be made on a form acceptable to the director within three days of initiation or termination of service or a request by the director.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(B) - L2	not REQUIRED	Transient noncommunity ground water public water systems without treatment for arsenic, nitrate or 4-log removal of viruses, serving populations of two hundred fifty or fewer, are not REQUIRED to place the technical operation of such a public water system under a professional operator of record unless the director determines that a professional operator of record is necessary.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(C) - L1	REQUIRED	The certified professional operator of record REQUIRED by paragraph (A) or (B) of this rule SHALL be an employee of the person owning or operating the public water system, treatment works, or sewerage system, except as provided in paragraph (D) of this rule	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(C) - L1	SHALL	The certified professional operator of record REQUIRED by paragraph (A) or (B) of this rule SHALL be an employee of the person owning or operating the public water system, treatment works, or sewerage system, except as provided in paragraph (D) of this rule	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(D)(1) - L1	REQUIRES	The contract REQUIRES that the certified professional operator of record be available to respond to emergencies and provide the services necessary to maintain the reliable operation of the system.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(D)(4) - L1	SHALL	The contracted professional operator of record SHALL perform duties as identified in rule 3745-7-09 of the Administrative Code.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(F)(5) - L1	prohibited	The professional operator is prohibited from operating any other public water system.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(F) - L4	SHALL	The director SHALL withdraw the exemption if the public water system or professional operator does not comply with requirements in paragraphs (F)(1) to (F)(8) of this rule.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		X
3745-7-02	(F)(8)	MUST	At least six of those contact hours MUST be related to operation and maintenance, and at least three of those six hours MUST be related to the specific treatment in operation at the public water system.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(F)(8)	MUST	At least six of those contact hours MUST be related to operation and maintenance, and at least three of those six hours MUST be related to the specific treatment in operation at the public water system.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(G)(5) - L1	prohibited	The professional operator is prohibited from operating any other public water system.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(G)(8)	MUST	At least six of those contact hours MUST be related to operation and maintenance, and at least three of those six hours MUST be related to the specific treatment in operation at the public water system.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(G)(8)	MUST	At least six of those contact hours MUST be related to operation and maintenance, and at least three of those six hours MUST be related to the specific treatment in operation at the public water system.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-02	(G) - L5	SHALL	The director SHALL withdraw the exemption if the public water system or the professional operator does not comply with requirements in paragraphs (G)(1) to (G)(8) of this rule.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		X
3745-7-03	intro	SHALL	Each public water system or water treatment plant and distribution system within a public water system SHALL be classified in accordance with this rule, with the exception of transient noncommunity public water systems using groundwater, without treatment for nitrate, arsenic or 4-log removal of viruses and having the potential to serve populations of two hundred fifty or fewer	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-03	intro	SHALL	All systems classified under this rule SHALL provide the minimum staffing REQUIRED in accordance with this rule.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	intro	REQUIRED	All systems classified under this rule SHALL provide the minimum staffing REQUIRED in accordance with this rule.		Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(A)(1) - L1	SHALL	Public water systems or water treatment plants and distribution systems within a public water system SHALL be classified in accordance with this rule and SHALL be staffed in accordance with paragraph (C) of this rule by either a professional operator of record pursuant to paragraph (A)(1) of rule 3745-7-02 of the Administrative Code or a backup professional operator pursuant to paragraphs (C)(3)(c), (C)(3)(d) and (C)(3)(e) of this rule.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(A)(1) - L2	SHALL	Public water systems or water treatment plants and distribution systems within a public water system SHALL be classified in accordance with this rule and SHALL be staffed in accordance with paragraph (C) of this rule by either a professional operator of record pursuant to paragraph (A)(1) of rule 3745-7-02 of the Administrative Code or a backup professional operator pursuant to paragraphs (C)(3)(c), (C)(3)(d) and (C)(3)(e) of this rule.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(B)(1) - L1	SHALL	A public water system or water treatment plant and distribution system within a public water system SHALL be classified in accordance with paragraphs (B)(2) to (B)(3) of this rule based on the approved design flow, degree of risk to public health or the environment, and the complexity of the treatment plant operation.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(B)(1)(b) - L1	SHALL	The director SHALL issue a certificate to each public water system indicating the classification of each water treatment plant and distribution system within the system.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(B)(1)(b) - L2	SHALL	The owner SHALL display each certificate for public examination at the water treatment plant or principal office of the public water system.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(B)(2)(a) - L1	SHALL	The director SHALL classify as a class I water distribution system:	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(B)(2)(b) - L3	SHALL	For distribution systems that are not classified as a class I water distribution system under paragraph (B)(2)(a) of this rule and are not part of a class A public water system as defined in table 1 of this rule, the director SHALL classify the distribution system of each public water system and each public water system that consists solely of a distribution system as a class II water distribution system.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(B)(2)(c) - L2	SHALL	Each public water system that purchases water from another public water system and provides additional treatment SHALL have the treatment system classified in accordance with table 1 of this rule.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(B)(3) - L2	SHALL	Unless classified as a class A system in accordance with number 10 of table 1 of this rule, public water systems SHALL be classified according to the criteria in numbers 1-9 of table 1 of this rule	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(1) - L1	SHALL	(1) A professional operator of record SHALL, at a minimum, be physically present at the public water system and fulfill the time requirements, as detailed in table 2, and perform technical operation as assigned by the owner of a public water system or their designee	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(1) - L5	SHALL	Time spent working on equipment within the service area of a public water system, as part of a professional operator of record's normal job responsibilities, SHALL count toward the minimum staffing time requirements.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(2)(a) - L1	SHALL	The owner of a class I distribution system SHALL ensure that a professional operator of record or a professional operator that is certified in the field of water distribution or water supply, class A operators excluded, performs visits to any portion of the distribution system at least three days per week.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(2)(a) - L4	SHALL	The owner of the distribution system SHALL maintain documentation regarding their authorization of individuals other than the professional operator of record to perform these visits. The individual performing the visit SHALL document the visit in the log book and report any problems to the professional operator of record	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-03	(C)(2)(a) - L6	SHALL	The owner of the distribution system SHALL maintain documentation regarding their authorization of individuals other than the professional operator of record to perform these visits. The individual performing the visit SHALL document the visit in the log book and report any problems to the professional operator of record	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(2)(b) - L1	SHALL	The owner of a class II distribution system SHALL ensure that a professional operator of record or a professional operator that is certified in the field of water distribution or water supply, class A operators excluded, performs visits to any portion of the distribution system at least five days per week.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(2)(b) - L4	SHALL	The owner of the distribution system SHALL maintain documentation regarding the authorization of individuals other than the professional operator of record to perform these visits.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(2)(b) - L6	SHALL	The individual performing the visit SHALL document the visit in the log book and report any problems to the professional operator of record.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(a) - L1	SHALL	During periods when the public water system is not producing or treating water it SHALL not be necessary to meet the staffing requirements in paragraph (C)(1) of this rule.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b) - L3	SHALL	Upon application by the owner of the system using a form acceptable to the director, and the director's approval of the system operating plan described in paragraph (C)(3)(b)(i) of this rule, the director SHALL reduce the minimum staffing REQUIREment for the professional operator of record of a class II, III, or IV public water system to no less than five days a week for a minimum of ten hours per week.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		X
3745-7-03	(C)(3)(b) - L5	SHALL	The director SHALL not grant a reduction to a public water system where a professional operator of record cannot respond to operational problems within one hour, a public water system that has a history of noncompliance with maximum contaminant levels, treatment techniques, sampling, reporting, or any other violations related to the public water system, or a public water system under formal enforcement.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(i) - L1	SHALL	Public water systems SHALL submit an operating plan for the system as part of the application for a staffing reduction	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(i)	SHALL	The operating plan SHALL include a description of the level of automation and continuous monitoring at the facility, a standard operating procedure for any such automation or continuous monitoring equipment, and a detailed operations schedule showing the number of professional operators, the certification level, and the number of hours spent per week at the public water system.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(i)	SHALL	The description of the continuous monitoring SHALL include a description of the calibration frequency, verification of calibration and records maintenance.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(i)	SHALL	In no case SHALL a reduction of greater than thirty hours per week be granted for a class III or IV facility, or ten hours per week for a class II facility.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(i) - tab	REQUIRED	The water treatment plant is automated with continuous monitoring for the parameters REQUIRED in the 5 hour reduction	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(i) - tab	REQUIRED	The water treatment plant is automated with continuous monitoring for the parameters REQUIRED in the 5 hour reduction and the water treatment plant MUST also have personnel onsite at the water treatment plant or an electronic notification system that notifies the professional operator of record when there are problems with the water treatment plant	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(i) - tab	MUST	The water treatment plant is automated with continuous monitoring for the parameters REQUIRED in the 5 hour reduction and the water treatment plant MUST also have personnel onsite at the water treatment plant or an electronic notification system that notifies the professional operator of record when there are problems with the water treatment plant	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(i) - tab	REQUIRED	The water treatment plant is automated with continuous monitoring for the parameters REQUIRED in the 5 hour reduction and an electronic notification system or certified professional operators on each shift that will notify the professional operator of record when there are problems with the water treatment plant.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-03	(C)(3)(b)(i) - table 4		The water treatment plant MUST also have the ability to be operated remotely or have a certified professional operator respond within 30 minutes	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(ii)	SHALL	This provision SHALL not preclude a public water system from submitting a modified operating plan.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(ii)	REQUIRE	Any change in the circumstances under which the reduction was approved (e.g., retirement of a professional operator listed in the approved staffing plan, loss of the professional operator of record, reduction in the workforce, removal or failure of automation or continuous monitoring, etc.) will REQUIRE that the system immediately return to compliance with the minimum staffing requirements in paragraph (C)(1) of this rule.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(iii)	SHALL	For a system operating plan to receive director's approval under table 4 of this rule, continuous monitors SHALL be calibrated in accordance with manufacturer standards or applicable regulations, whichever is more stringent	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(iii)	SHALL	Calibration verification SHALL be conducted at least once per week or in accordance with applicable regulations, whichever is more stringent.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(b)(iii)	SHALL	Records of the calibrations and verifications SHALL be maintained for three years.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(c)	REQUIRE	The use of this provision does not REQUIRE notification to the agency.		Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(c)	SHALL	The operational records SHALL clearly indicate every time the backup professional operator is being used to meet the minimum staffing REQUIREment.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(c)	MAY NOT	This provision MAY NOT be used to routinely circumvent minimum staffing requirements.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(c)	SHALL not	In the case of systems which utilize an established flex work schedule of four ten-hour days, the use of a professional operator with a certificate one classification less than the facility to staff the facility on the fifth day of the week SHALL not be considered an attempt to circumvent the minimum staffing requirements	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(d)	SHALL	Such requests SHALL be made in writing to the district office in which the system is located.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(e)	REQUIRE	The use of this provision does not REQUIRE notification to the agency unless the use of the backup professional operator exceeds thirty consecutive days.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(e)	SHALL	The operational records SHALL clearly indicate every time the backup professional operator is being used to meet the minimum staffing REQUIREment	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(e)	SHALL	In the event the use of a backup professional operator under this provision exceeds thirty consecutive days, the owner or professional operator SHALL provide notice in accordance with paragraph (A)(1) of rule 3745-7-02 of the Administrative Code	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(f)	SHALL	Any professional operator fulfilling the role of a backup professional operator SHALL be held responsible for any violations that occur during the period when they are acting as the backup professional operator.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-03	(C)(3)(g)	SHALL	The request SHALL include documentation of the distance between the two facilities and documentation that the facilities are not under enforcement and have been in compliance with maximum contaminant levels, treatment techniques, sampling, reporting and professional operator certification requirements for the three years prior to the request	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(g)	SHALL	This provision SHALL not preclude the public water system from submitting a modified operating plan.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(C)(3)(g)	REQUIRE	Any change in the circumstances under which the reduction was approved (e.g., enforcement action entered, violation of the professional operator certification requirements, monitoring violations, etc.) will REQUIRE that the system immediately return to compliance with the minimum staffing requirements in paragraph (C)(1) of this rule	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(1)	SHALL	The professional operator of record of the public water system or backup professional operator authorized under paragraphs (C)(3)(c), (C)(3)(d) and (C)(3)(e) of this rule SHALL be available during all periods of public water system operation	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(2)	SHALL	Visits to all public water systems classified in accordance with this rule SHALL be performed by the owner, supplier, or a representative or agent of the owner or supplier seven days per week and noted in the operational and maintenance records REQUIRED by rule 3745-7-09 of the Administrative Code	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(2)	REQUIRED	Visits to all public water systems classified in accordance with this rule SHALL be performed by the owner, supplier, or a representative or agent of the owner or supplier seven days per week and noted in the operational and maintenance records REQUIRED by rule 3745-7-09 of the Administrative Code. V	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(2)	SHALL	Visits SHALL not be necessary when the public water system is not in operation.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	In order to request a waiver, the public water system SHALL submit a request on a form acceptable to the director.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	The public water system SHALL demonstrate the system continuously monitors flow, pH, turbidity, disinfection and fluoridation, if applicable, at the entry point to the distribution system.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	The public water system SHALL document alarm set points for each parameter that are protective of human health	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	Set points SHALL be set in such a manner that an appropriately certified professional operator can respond to correct a problem prior to the violation of regulatory limits.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	The public water system SHALL document that the monitoring system has the ability to notify public water system personnel when a value outside a set point has been detected.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	The public water system SHALL demonstrate the ability for a professional operator, certified at a level equal to or higher than that of the public water system, to respond to the system within an hour of a value outside a set point being detected.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	The meters SHALL be calibrated in accordance with Ohio EPA regulations or manufacturer standards, whichever is more stringent.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	At a minimum, the calibration of all continuous monitors SHALL be verified on a weekly basis.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-03	(D)(3)	SHALL	Flow meter readings SHALL be within a plus or minus ten per cent of the reading determined by the method for calibration verification	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	Readings for chemical monitors SHALL be within the acceptable limits established in the "Ohio EPA, Laboratory Manual for Chemical Analyses of Public Drinking Water 2014."	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	In the event the calibration verification determines the monitor is outside of acceptable limits, the public water system SHALL immediately notify the district office of the problem and return to having an owner's representative visit the facility seven days per week.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	All of the information REQUIRED in paragraph (D)(3) of this rule, SHALL be documented in the facility's operation and maintenance records. In the event any of the following occur, the public water system SHALL return to having an owner's representative visit the facility on a daily basis:	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	All of the information REQUIRED in paragraph (D)(3) of this rule, SHALL be documented in the facility's operation and maintenance records. In the event any of the following occur, the public water system SHALL return to having an owner's representative visit the facility on a daily basis:	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	SHALL	In the event any of the following occur, the public water system SHALL return to having an owner's representative visit the facility on a daily basis:	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(D)(3)	REQUIRED	All of the information REQUIRED in paragraph (D)(3) of this rule, SHALL be documented in the facility's operation and maintenance records.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(E)	REQUIRED	In order to protect public health and welfare and based on specific circumstances or treatment complexity at a public water system, the director may REQUIRE a public water system to be operated by a professional operator of record with a higher classification than the minimum REQUIREment, or may REQUIRE one or more professional operator of record to visit a public water system or water treatment plant and distribution system within a public water system more frequently and for more hours per week than the minimums REQUIRED by this rule.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(E)	REQUIRED	In order to protect public health and welfare and based on specific circumstances or treatment complexity at a public water system, the director may REQUIRE a public water system to be operated by a professional operator of record with a higher classification than the minimum REQUIREment, or may REQUIRE one or more professional operator of record to visit a public water system or water treatment plant and distribution system within a public water system more frequently and for more hours per week than the minimums REQUIRED by this rule.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-03	(E)	REQUIRED	In order to protect public health and welfare and based on specific circumstances or treatment complexity at a public water system, the director may REQUIRE a public water system to be operated by a professional operator of record with a higher classification than the minimum REQUIREment, or may REQUIRE one or more professional operator of record to visit a public water system or water treatment plant and distribution system within a public water system more frequently and for more hours per week than the minimums REQUIRED by this rule.	6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	Intro	SHALL	In accordance with this rule, all treatment works, sewerage systems, or wastewater treatment facilities within a treatment works SHALL be classified as a class A, I, II, III, or IV treatment works or class I or II sewerage systems and SHALL provide the minimum staffing REQUIRED for that classification of wastewater treatment facility.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	Intro	SHALL	In accordance with this rule, all treatment works, sewerage systems, or wastewater treatment facilities within a treatment works SHALL be classified as a class A, I, II, III, or IV treatment works or class I or II sewerage systems and SHALL provide the minimum staffing REQUIRED for that classification of wastewater treatment facility.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	Intro	SHALL	Industrial wastewater treatment plants SHALL be classified in accordance with paragraph (B)(3)(c) of this rule	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(A)(1)	SHALL	The classification and staffing requirements in paragraphs (B)(1)(a), (B)(2), and (C) of this rule SHALL be incorporated into all new or renewed NPDES permits	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-04	(A)(1)	SHALL	The staffing requirements in paragraph (C) SHALL be fulfilled by either a professional operator of record pursuant to paragraph (A)(2) of rule 3745-7-02 of the Administrative Code or a backup professional operator pursuant to paragraphs (C)(2)(c), (C)(2)(d) and (C)(2)(e) of this rule	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(A)(1)	SHALL	Until such time as an NPDES permit is renewed to incorporate the classification and minimum staffing requirements of this rule, the treatment works, sewerage system or wastewater treatment facility within a treatment works SHALL maintain the same level of classification and staffing as that on December 21, 2006.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(A)(3)	SHALL	One, two, and three family dwellings with household sewage treatment systems SHALL be excluded from the requirements of this rule.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(B)(1)(b)	SHALL	Each public sewerage system that is a tributary to a class I treatment works SHALL be classified as a class I sewerage system.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(B)(1)(b)	SHALL	Each public sewerage system that is a tributary to a class II, III, or IV treatment works SHALL be classified as a class II sewerage system.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(B)(1)(c)	SHALL	Each sewerage system for which an NPDES permit has been issued by the director, other than those sewerage systems described in paragraphs (B)(1)(a) and (B)(1)(b) of this rule, SHALL be classified as a class II sewerage system.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(B)(2)(a)	SHALL	Treatment works classification SHALL be based on design flow of the treatment works and the final effluent limits for the treatment works for monthly average concentrations of carbonaceous biochemical oxygen demand, total suspended solids, and summer month ammonia nitrogen designated in the treatment works' NPDES permit.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(B)(2)(a)	SHALL	All treatment lagoon systems with a design flow greater than 0.025 million gallons per day (MGD) SHALL be classified as class I systems	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(B)(2)(b)	SHALL	Class A, I, II, III, and IV treatment works SHALL be classified according to the following tables:	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(B)(5)	SHALL	Such requests SHALL be made in writing to the appropriate district office.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(1)	SHALL	At a minimum, the professional operator of record SHALL be physically present at the treatment works and fulfill the time requirements in the following table and perform technical operation as assigned by the permittee of the treatment works	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(1)	SHALL	Time spent working on equipment within the service area of a treatment works, as part of a professional operator of record's normal job responsibilities, SHALL count toward the minimum staffing time requirements.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(2)(a)	SHALL	The owner of a class I sewerage system SHALL ensure that a professional operator of record or a professional operator that is certified in the field of wastewater collection or wastewater treatment, class A operators excluded, SHALL perform visits to any portion of the sewerage system at least three days per week.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(2)(a)	SHALL	The owner of a class I sewerage system SHALL ensure that a professional operator of record or a professional operator that is certified in the field of wastewater collection or wastewater treatment, class A operators excluded, SHALL perform visits to any portion of the sewerage system at least three days per week.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(2)(a)	SHALL	The owner of the sewerage system SHALL maintain documentation regarding their authorization of individuals other than the professional operator of record to perform these visits.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-04	(C)(2)(a)	SHALL	The individual performing the visit SHALL document the visit in the log book and report any problems to the professional operator of record.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(2)(b)	SHALL	The owner of a class II sewerage system SHALL ensure that a professional operator of record or a professional operator that is certified in the field of wastewater collection or wastewater treatment, class A operators excluded, performs visits to any portion of the sewerage system at least five days per week.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(2)(b)	SHALL	The owner of the sewerage system SHALL maintain documentation regarding the authorization of individuals other than the professional operator of record to perform these visits.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(2)(b)	SHALL	The individual performing the visit SHALL document the visit in the log book and report any problems to the professional operator of record	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(a)	SHALL	Upon application on a form acceptable to the director by the permittee and the director's approval of the operating plan described in paragraph (C)(3)(a)(i) of this rule, the director SHALL reduce the minimum staffing REQUIREment for a professional operator of record of a class II, III, or IV treatment works to no less than five days a week for a minimum of ten hours per week.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(a)	SHALL	However, the director SHALL not grant a reduction to a treatment works where a professional operator of record cannot respond to operational problems within one hour.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		x
3745-7-04	(C)(3)(a)	SHALL	The director also SHALL not grant a reduction to a treatment works under formal enforcement excluding enforcement related to combined sewer overflows or sanitary sewer overflows.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		x
3745-7-04	(C)(3)(a)(i)	SHALL	Treatment works SHALL submit an operating plan for their facility as part of the application for a staffing reduction	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(a)(i)	SHALL	The operating plan SHALL include a description of the level of automation and continuous monitoring at the facility, a standard operating procedure for any such automation or continuous monitoring equipment, and a detailed operations schedule showing the number of professional operators, the certification level, and the number of hours spent at the treatment works.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(a)(i)	SHALL	The description of the continuous monitoring SHALL include a description of the calibration frequency, verification of calibration and records maintenance	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(a)(i)	SHALL	In no case SHALL a reduction of greater than thirty hours per week be granted to a class III or IV facility and ten hours per week for a class II facility.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(a)(ii)	SHALL	This provision SHALL not preclude a treatment works from submitting a modified operating plan	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(a)(iii)	SHALL	For a system operating plan to receive director's approval under table B of this rule, continuous monitors SHALL be calibrated in accordance with manufacturer standards or applicable regulations, whichever is more stringent	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(a)(iii)	SHALL	Calibration verification SHALL be conducted at least once per week or in accordance with applicable regulations, whichever is more stringent.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(a)(iii)	SHALL	Records of the calibrations and verifications SHALL be maintained for three years.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-04	(C)(3)(b)	MAY NOT	This provision MAY NOT be used to routinely circumvent minimum staffing requirements.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(b)(i)	SHALL	In the case of class III and IV systems which utilize an established flex work schedule of four ten-hour days, the use of a professional operator with a certificate one classification less than the facility to staff the facility on the fifth day of the week SHALL not be considered an attempt to circumvent the minimum staffing requirements.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(b)(ii)	SHALL	In the case of class II systems which utilize an established flex work schedule of two eight hour days and a four hour day, the use of a professional operator with a certificate one classification less than the facility or an operator in training who has passed the class I examination to staff the facility on the fourth and fifth day of the week SHALL not be considered an attempt to circumvent the minimum staffing requirements	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(c)	SHALL	Such requests SHALL be made in writing to the appropriate district office.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(d)	SHALL	In the event the use of a backup professional operator under this provision exceeds thirty consecutive days, the owner or professional operator SHALL provide notice in accordance with paragraph (A)(2) of rule 3745-7-02 of the Administrative Code.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(e)	SHALL	Any professional operator fulfilling the role of a backup professional operator SHALL be held responsible for any violations that occur during the period when they are acting as the backup professional operator	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(f)	SHALL	The request SHALL include documentation of the distance between the two facilities and documentation that the facilities are not under enforcement and have been in compliance with permit effluent limits, treatment techniques, sampling, reporting and professional operator certification requirements for the three years prior to the request.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(f)	SHALL	This provision SHALL not preclude the treatment works from submitting a modified operating plan.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(f)	SHALL	A reduction granted under this provision in combination with any other reductions available in this rule SHALL not reduce the minimum staffing requirements at a class II, III, or IV facility to less than five days per week for a minimum of ten hours per week.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(g)	SHALL	In order to document seasonal operations, the permittee SHALL submit a form acceptable to the director documenting the system shut down date and the proposed reopening date.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(g)	SHALL	The application SHALL include documentation that enough wastewater has been removed from the system to prevent discharge to waters of the state and contain a contingency plan to lower the level in the plant in the event there is a potential to discharge effluent to waters of the state.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(g)	SHALL	During the off season the professional operator of record SHALL visually confirm via flow monitoring, if applicable, that the treatment works is not discharging and does not have the potential to discharge wastewater.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(g)	SHALL	The verification SHALL be documented during the visits referenced above as part of the operation and maintenance records specified in rule 3745-7-09 of the Administrative Code.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(g)	SHALL	The permittee SHALL notify the agency on a form acceptable to the director prior to resuming operations	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(g)	Prohibited	A discharge from the treatment works during the reduced staffing period is prohibited	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-04	(C)(3)(g)	SHALL	Discovery of a discharge to waters of the state during a period of reduced staffing SHALL result in a revocation of the authorization for reduced staffing requirements and a prohibition on further approval for a period of five years	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(h)	SHALL	Controlled discharge lagoons SHALL only be REQUIRED to meet the minimum staffing requirements above during periods of discharge.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(h)	SHALL	When discharge is not occurring, the professional operator of record SHALL visit the facility at least once every two weeks.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(i)(i)	SHALL	The installation SHALL include the appropriate fail safe mechanisms established for the approved systems (e.g. telemetering or lockout) and tertiary treatment as appropriate.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(3)(i)(i)	SHALL	For systems operating under the terms and conditions of this alternate service provider provision, the permittee SHALL submit a copy of an active service contract with the service provider annually, in accordance with the conditions of the system's NPDES permit.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(4)(a)	SHALL	The professional operator of record or backup professional operator allowed under paragraphs (C)(3)(b), (C)(3)(c) and (C)(3)(d) of this rule SHALL be available during all periods of treatment works operation.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(4)(b)	SHALL	Visits to all treatment works SHALL be performed by the permittee, the permittee's representative, or agent five days a week and noted in the operational and maintenance records REQUIRED by rule 3745-7-09 of the Administrative Code	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-04	(C)(4)(b)	SHALL	Visits SHALL not be necessary when the treatment works is not in operation.	6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-05	(B)	SHALL	The certification of any individual to operate a particular class of public water system, sewerage system, or treatment works SHALL also authorize such individual to be the professional operator of record of any other public water system, sewerage system, or treatment works as indicated in the tables below.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-05	(C)	MAY NOT	A limited class A professional operator holds a facility-specific certificate and MAY NOT operate any other facilities or transfer the certificate to a different facility.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	Intro	SHALL	The director SHALL, in accordance with this chapter, provide for the examination of individuals applying for certification as professional operators and the issuance of appropriate certificates to applicants who meet the appropriate requirements and pass the appropriate examination.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x	x	
3745-7-06	(A)(1)	SHALL	Applicants for examination and certification SHALL submit an application in a format approved by the director.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(A)(1)	SHALL	The complete application and appropriate fees as set forth in section 3745.11 of the Revised Code SHALL be submitted at least ninety calendar days prior to the date on which the examination is scheduled.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(A)(2)	SHALL	When REQUIRED by the council, the applicant SHALL be responsible for furnishing additional documentation to the agency to verify information provided on the application.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(A)(3)	SHALL	Any applicant who submits incomplete, false, or incorrect information on the application SHALL be disqualified from taking the examination as set forth in rule 3745-7-18 of the Administrative Code.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-06	(B)	SHALL	To be eligible for examination and certification in accordance with this chapter the applicant SHALL fulfill the following:	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(B)(5)	SHALL	Either of the following SHALL be considered equivalent to a high school diploma.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(B)(7)	SHALL	All applicants to be a professional operator SHALL acknowledge completion of a review of the "Ohio EPA Professional Operator Certification Training" course.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(B)(8)(c)	SHALL	To be eligible to take the class A examination for certification, applicants SHALL have education, and operating or work experience in accordance with the following chart:	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(B)(8)(c) - table	SHALL	** Successful completion of one or more of the Operator Training Committee of Ohio "Basic Water" or "Basic Wastewater" course, the California State University at Sacramento "Small Water System Operation and Maintenance" or "Small Wastewater System Operation and Maintenance, Volume I" course, or the equivalent SHALL reduce the experience REQUIREment to one year of work experience or five hundred twenty hours of operating experience.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(B)(8)(c) - table	SHALL	Visits SHALL not be necessary when the treatment works is not in operation.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(C)(2)	SHALL	Applicants for class IV certification SHALL document three years of additional operating experience while in possession of a valid class III certification in the field for which the application is submitted, with two of those years consisting of management experience at a class III or IV facility in the field for which the application is submitted.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(C)(3)(c)	SHALL	Applicants for class IV certification SHALL document three years of additional operating experience while in possession of a valid class III certification in the field for which the application is submitted, with two of those years consisting of management experience at a class III or IV facility in the field for which the application is submitted.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(C)(3)(e)	SHALL	An applicant who passes the examination before showing the REQUIRED operating experience SHALL be a professional operator in training, subject to the conditions of paragraph (C) of rule 3745-7-07 of the Administrative Code	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(F)(1)	SHALL	The examinations for each classification SHALL be in a format accepted by the director.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-06	(F)(2)	SHALL	The director SHALL establish and publish criteria for exams and the associated score necessary to pass the exams.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		x
3745-7-06	(G)	SHALL	An applicant approved by the director to take the class IV certification examination SHALL submit the examination within two years of the date of the approval, unless an extension is granted prior to the end of the two-year period.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-07	Intro	SHALL	Such applicants SHALL be designated as "professional operators in training" after successfully passing an examination until such time as the onsite operating experience requirements are fulfilled.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-07	(A)	SHALL	Eligibility for professional operator in training status SHALL be limited to applicants for the class A, I, or II examination.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-07	(C)	SHALL	A professional operator in training SHALL complete the operating experience REQUIREment within four years of passing an examination for which the professional operator applied.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-07	(D)	SHALL	Upon successfully completing the actual onsite operating experience requirements of rule 3745-7-06 of the Administrative Code, the applicant SHALL submit an application to be certified by the director as a professional operator in the classification for which the professional operator applied, subject to verification by the council.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-07	(E)	SHALL	Any person designated as a professional operator in training is not certified and SHALL not act as a professional operator of record.	6109.04, 6111.46	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(A)	SHALL	The owner and professional operator of record of a public water system, treatment works or sewerage system SHALL maintain or cause to be maintained operation and maintenance records for each public water system, distribution system, water treatment plant within a public water system, sewerage system, treatment works, or wastewater treatment facility within a treatment works.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(A)	SHALL	Records SHALL be maintained in hard bound books with consecutive page numbering; well organized computer logs, which automatically document the date, time and person making the entry and prevent the erasure or deletion of data; or an equivalent methodology sufficient to record the information set forth in this rule and approved by the director to ensure authenticity and accuracy.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(A)	SHALL	Records regarding operation and maintenance SHALL meet the following requirements:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(A)(1)	SHALL	The records SHALL be housed and maintained in such a manner as to be protected from weather damage and guarantee the authenticity and accuracy of the records contained within.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(A)(2)	SHALL	The records SHALL be accessible onsite for twenty-four hour inspection by agency or emergency response personnel.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(A)(3)	SHALL	At a minimum, the following information SHALL be recorded	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(A)(3)(b)	SHALL	Failure to document times of arrival and departure SHALL constitute prima facie evidence that a violation of the minimum staffing requirements has occurred unless the professional operator can present evidence acceptable to the director to substantiate that the professional operator met minimum staffing requirements.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(A)(4)	SHALL	The records SHALL be kept up to date, contain a minimum of the previous three months of data at all times, and be maintained for at least three years.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(B)	SHALL	A certified professional operator SHALL do the following:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(C)	SHALL	The duties of a professional operator of record SHALL include, but not be limited to, those outlined in paragraphs (B)(1) to (B)(3) of this rule and the following additional duties and responsibilities:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-09	(C)(4)	SHALL	Each professional operator of record identified in accordance with rule 3745-7-02 of the Administrative Code and each certified professional operator acting as a backup for a facility identified in accordance with rule 3745-7-03 or rule 3745-7-04 of the Administrative Code, SHALL ensure that the facility's minimum staffing requirements are being met either by themselves or in conjunction with other professional operators working at the facility.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-09	(D)	SHALL	In the event that there are issues related to paragraphs (A) to (C) of this rule that are within the area of responsibility of, but beyond a professional operator of record or a certified professional operator's ability to address, it SHALL be the responsibility of the professional operator of record or certified professional operator to document any efforts to rectify the problem.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(A)	SHALL	The director SHALL appoint a professional operator certification advisory council consisting of eight members as set forth in this rule.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(A)(1)	SHALL	Two members SHALL be employees of the Ohio environmental protection agency	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(A)(1)	SHALL	One member SHALL be from the drinking water program and one from the surface water program.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(A)(2)	SHALL	Two members SHALL hold valid class III or class IV public water system professional operator certifications and be actively employed by public water systems at the time of appointment.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(A)(3)	SHALL	Two members SHALL hold valid class III or class IV wastewater works professional operator certifications and be actively employed by wastewater works at the time of appointment.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(A)(4)	SHALL	Two members SHALL be registered professional engineers who are actively employed in the field of sanitary or environmental engineering at the time of appointment.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(A)(5)	SHALL	Except for the two agency members, no two council members SHALL be employed by the same entity	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(B)	SHALL	Members of the council SHALL be appointed for a term not to exceed five years and SHALL not serve longer than two consecutive terms, except as allowed in paragraph (C) of this rule.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(B)	SHALL	Members of the council SHALL be appointed for a term not to exceed five years and SHALL not serve longer than two consecutive terms, except as allowed in paragraph (C) of this rule.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(C)	SHALL	Any vacancy occurring on the council SHALL be filled by the director's appointment of a member for the balance of the unexpired term.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(D)	SHALL	The council meetings SHALL be administered by the members of the agency.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(E)	SHALL	Terms of appointment pursuant to this rule SHALL expire on a staggered schedule as follows:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(E)(1)	SHALL	The two members who are employees of the agency SHALL have terms that expire on the thirtieth of June in years that end in four or nine.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(E)(2)	SHALL	The two members who are employed by public water systems SHALL have terms that expire on the thirtieth of June in years that end in zero or five for one member and in years that end in two or seven for the other member.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-10	(E)(3)	SHALL	The two members who are employed by treatment works SHALL have terms that expire on the thirtieth of June in years that end in one or six for one member and in years that end in three or eight for the other member.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(E)(4)	SHALL	The two members who are actively employed as sanitary or environmental engineers SHALL have terms that expire on the thirtieth of June in years that end in two or seven for one member and in years that end in three or eight for the other member	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-10	(F)	SHALL	Council members SHALL be reimbursed for reasonable expenses related to council activities.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-11	(H)	SHALL	Nothing in this rule SHALL be interpreted to REQUIRE a recommendation from the council on any action of the director issued pursuant to this chapter.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(B)	SHALL	The requests SHALL be sent by certified mail	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(C)	SHALL	The director SHALL notify the certified professional operator, and MAY NOTIFY the employer thereof, of a proposed action under this rule	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		x
3745-7-12	(C)	SHALL	The notice SHALL be by certified mail and SHALL set forth the action proposed by the director, the reason therefor, the length of time the proposed action SHALL be applied, and the procedure for appealing the action.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(C)	SHALL	The notice SHALL be by certified mail and SHALL set forth the action proposed by the director, the reason therefor, the length of time the proposed action SHALL be applied, and the procedure for appealing the action.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(C)	SHALL	In cases dealing with fraudulent or falsified information, the director SHALL take action on all certificates held by the certified professional operator.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		x
3745-7-12	(D)	SHALL	Suspension of a professional operator's certificate SHALL be effective for an initial period of not more than five years, during which time the certificate is not valid	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(D)	SHALL	The suspension SHALL continue until the following conditions are met:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(D)(1)	SHALL	A certificate SHALL remain suspended until such time as a request is submitted and reinstatement approved by the director.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(D)(2)	SHALL	No earlier than thirty days before the end of a certificate suspension, a person seeking reinstatement of a certificate SHALL submit information to the agency regarding work activities during the period of suspension.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(D)(2)	SHALL	During the period of suspension, the professional operator SHALL acquire the contact hours and pay all renewal fees REQUIRED by this chapter	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(E)	SHALL	The professional operator whose certificate has been suspended SHALL not be the professional operator of record of a public water system, treatment works, water distribution system, or sewerage system.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745-7-12	(E)	SHALL	Operating experience obtained during a period of suspension SHALL not be considered for meeting certification requirements.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(F)	SHALL	Revocation of a professional operator's certificate SHALL be permanent.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(G)	SHALL	Indictment in a criminal case for a crime related to the field of certification SHALL result in suspension of all certificates held by the certified professional operator until such time as the criminal case is resolved.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(H)	SHALL	Conviction of a crime related to the field of certification SHALL result in suspension of all certificates held by the convicted certified professional operator until such time as all opportunities for appeal of such conviction have been exhausted, at which point, all certificates held by the certified professional operator SHALL be revoked.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(H)	SHALL	Conviction of a crime related to the field of certification SHALL result in suspension of all certificates held by the convicted certified professional operator until such time as all opportunities for appeal of such conviction have been exhausted, at which point, all certificates held by the certified professional operator SHALL be revoked.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(I)	SHALL	A professional operator SHALL return any suspended or revoked certificates to the director by certified mail within seven days of the effective date of the suspension or revocation	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745-7-12	(J)	SHALL	Actions affecting the status of a professional operator's certificate SHALL be taken in accordance with Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 13	(A)(1)	SHALL	The applicant SHALL make an application for certification by reciprocity on a form provided by the director.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 13	(A)(2)	SHALL	The applicant SHALL meet the requirements specified in rule 3745-7-06 of the Administrative Code for the level of certification applied for, and meet either of the following specifications:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 13	(A)(2)(a)	SHALL	The director SHALL be furnished with a representative copy of the examination passed by the applicant.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 13	(B)	SHALL	The council SHALL review and compare the representative out-of-state or ABC examination passed by an applicant with Ohio's examinations and determine the classification of examination with which the out-of-state or ABC examination is equivalent.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 13	(B)	SHALL	Certification by reciprocity SHALL not be considered if a representative copy of the examination passed by the applicant cannot be obtained, unless the director has entered into a reciprocity agreement with the state in question	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 13	(C)	SHALL	At the time of the request for reciprocity, the applicant SHALL pay a certification fee as REQUIRED in section 3745.11 of the Revised Code	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 13	(E)	SHALL	The request SHALL be made in writing and SHALL indicate the exam classification that the applicant is requesting to take.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745 - 7 - 13	(E)	SHALL	The request SHALL be made in writing and SHALL indicate the exam classification that the applicant is requesting to take.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 13	(F)	SHALL	Applicants who, while a resident of Ohio, obtained certification by examination in another state, through ABC or an equivalent association for the purpose of bypassing Ohio's examination process, SHALL not be certified by reciprocity	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(B)	SHALL	The director SHALL send a renewal notice to the certified professional operator's latest address of record prior to the expiration date of the certificate.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		x
3745 - 7 - 15	(B)	SHALL	Failure to receive such notice SHALL not relieve the certified professional operator of the responsibility to renew the certificate.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(B)	SHALL	The professional operator SHALL notify the agency of changes in contact information including but not limited to phone number, email address and street address.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(C)(1)	SHALL	Beginning with certificates that expire on December 31, 2018, all renewal applications SHALL be submitted electronically in a format approved by the director.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(C)(2)	SHALL	In order to renew a certificate before it expires, a certified professional operator SHALL submit a complete application to the director by November thirtieth of the year the certification expires.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(C)(2)	SHALL	The submission SHALL include the following:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(C)(3)	SHALL	For a holder of multiple certificates within a category, the director SHALL only renew the certificate representing the highest classification within the field.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(C)(4)	SHALL	To renew a certificate issued under this chapter, the certified professional operator SHALL complete the number of director-approved contact hours REQUIRED by paragraph (D) of this rule during each renewal cycle.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(2)	SHALL	Professional operators holding multiple certificates SHALL have the number of contact hours REQUIRED for the renewal of each certificate reduced by twenty-five per cent.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(2)	SHALL	The reductions SHALL be granted as follows:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(2)(a)	SHALL	For persons holding a certificate as a class A water supply or limited class A water supply professional operator and a class A wastewater works or a limited class A wastewater works professional operator, not less than six hours of director-approved contact hours SHALL be completed for each of these certificates.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(2)(b)	SHALL	For persons holding certificates as a public water system professional operator I, water distribution professional operator I, water distribution professional operator II, wastewater works professional operator I, wastewater collection system professional operator I, or wastewater collection system professional operator II, not less than nine hours of director-approved contact hours SHALL be completed for each of these certificates.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745 - 7 - 15	(D)(2)(c)	SHALL	For persons holding certificates as a public water system professional operator II, public water system professional operator III, public water system professional operator IV, wastewater works professional operator II, wastewater works professional operator III, or wastewater works professional operator IV, not less than eighteen hours of director-approved contact hours SHALL be completed for each of these certificates.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(3)	SHALL	At least half of a professional operator's contact hours SHALL be those determined by the director to be directly related to operations and maintenance.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(4)	SHALL	The minimum REQUIRED number of director-approved contact hours SHALL be completed during the two-year period preceding the expiration date of the certificate, except as provided in paragraph (I) of this rule.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(7)	MAY NOT	A professional operator holding multiple certificates MAY NOT use a contact hour course for credit on more than one certificate, unless that professional operator has attended multiple sessions of that course.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(8)	SHALL	In addition to the contact hour requirements above, all professional operators SHALL acknowledge completion of a review of the "Ohio EPA Professional Operator Certification Training" course.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(9)	SHALL	Upon request, an applicant for renewal of a certificate SHALL submit documentation of attendance at approved contact hour training to the director with the renewal application.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(10)	SHALL	These contact hour requirements SHALL be met within six months after the expiration date of the certificate or the certificate SHALL not be renewed.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(10)	SHALL	These contact hour requirements SHALL be met within six months after the expiration date of the certificate or the certificate SHALL not be renewed.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(10)	SHALL	If a professional operator has not submitted a renewal application by the expiration date of the certificate, the professional operator SHALL not be the professional operator of record of a public water system, treatment works, or sewerage system until such time as a renewal certificate is issued	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(D)(10)	SHALL	Contact hours accrued to meet the certificate renewal requirements pursuant to this paragraph SHALL not count as contact hours for the next certificate renewal.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)	SHALL	All training for the purpose of obtaining contact hours SHALL be approved by the director.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)(a)	SHALL	Training providers SHALL submit requests for approval of training prior to the training event or within thirty days after completion of the training event	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)(b)	SHALL	Approval of training SHALL be based on the following:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)(b)(i)	SHALL	At a minimum, a course SHALL contain at least 0.5 hours of active instruction.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745 - 7 - 15	(E)(1)(b)(iii)	SHALL	Identification and qualifications of the instructor, who SHALL have at least three years of experience in the subject for which they are providing training, or equivalent experience as determined by the director	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)(b)(iii)	SHALL	Content of the training, which for courses over one hour in length, SHALL include an agenda which distinguishes training time from breaks and syllabus which describes the course	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)(b)(iii)	SHALL	The syllabus SHALL include one method for verifying attendance.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)(b)(iii) (c)	SHALL	Web-based course, which SHALL be interactive and not static or pre-recorded:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)(c)(i)	SHALL	For classroom courses and webinars, course credit SHALL be based on the amount of active instruction during the course.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)(c)(ii)	SHALL	For correspondence and web-based courses, course credit SHALL be based on one of the following:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)(d)	SHALL	Courses SHALL expire three years following the last scheduled date of the course.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(1)(e)	SHALL	Training providers SHALL maintain all records associated with approved contact hour courses for a minimum of three years from the date of the course.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(2)	SHALL	All training providers SHALL notify the agency of subsequent sessions of an approved training course either prior to or within thirty days of the training in a format approved by the director.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(2)	SHALL	Submission of a new training date SHALL extend the course expiration date by three years from the date of the training.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(3)	SHALL	Within thirty days of the effective date of this rule, all training providers SHALL electronically submit attendance documentation in a format approved by the director.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(3)	SHALL	Course attendance records SHALL be submitted within sixty days of the completion of the course.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(4)	SHALL	After Ohio EPA verifies consistency, the training provider SHALL electronically submit course applications and attendance data.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(E)(5)	SHALL	In the event training providers or professional operators, approved through the process described in paragraph (E) of this rule, do not follow the provisions in paragraph (E) of this rule, the director SHALL not approve new training courses for a period of up to two years.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		x
3745 - 7 - 15	(F)(1)(g)	SHALL	Training providers SHALL not issue certificates of completion for a number of hours different than that assigned to an approved training course.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745 - 7 - 15	(F)(1)(i)	SHALL	This list SHALL include the name of the course, the training provider's approval number, the instructor's name, subject, date, and location of the training, along with the number of contact hours assigned.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(F)(2)	SHALL	Training providers approved through the process described in paragraph (F)(1) of this rule SHALL be designated green leaf training providers.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(F)(3)	SHALL	In the event a green leaf training provider does not provide a list of scheduled training by the first day of the month, the green leaf training provider SHALL submit course approval applications in accordance with paragraph (E) of this rule.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(F)(3)	SHALL	If course approval applications are not submitted, the training SHALL not be considered for the renewal of a certificate.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(F)(4)	SHALL	In the event a green leaf training provider has given a trainer-specific contact hour course number to a course that has not been given and the course changes, due to adjustments in the length of the presentation or instructor, the green leaf training provider SHALL notify Ohio EPA within two business days of the change.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(F)(5)	SHALL	When a green leaf training provider course has been previously provided to operators and changes due to adjustments in the length of the presentation, the green leaf training provider SHALL create a new approval number and notify Ohio EPA in accordance with the requirements set forth in this rule.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(F)(6)	SHALL	Green leaf training provider courses SHALL expire three years following the last scheduled date of the course.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(F)(7)	SHALL	Within thirty days of the effective date of this rule, all green leaf training providers SHALL electronically submit attendance documentation in a format provided by the director.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(F)(7)	SHALL	Course attendance records SHALL be submitted within thirty days of the completion of the course.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(F)(8)	SHALL	For training providers who have not received approval in accordance with paragraph (F) of this rule, the director SHALL not approve new contact hour course training for a period of up to two years.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(G)	SHALL	All training providers SHALL allow agency representatives to attend courses at any time for the purpose of reviewing the length of training, training content and other relevant aspects of the training.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(G)	SHALL	Agency employees SHALL not use this provision to obtain contact hours	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(H)	SHALL	The director SHALL not renew the professional operator certificate of an applicant failing to meet the requirements of this rule.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(I)	SHALL	A renewal card indicating the valid dates of the renewed professional operator certificate SHALL be issued to all certified professional operators who have met the renewal requirements of this rule.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(J)	SHALL	In all cases the expiration date of the renewed professional operator certificate SHALL be the same as if the renewal requirements had been met on or before the date of expiration.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745 - 7 - 15	(J)	SHALL	After the expiration date and prior to renewal according to this paragraph, the professional operator SHALL not perform those activities requiring a certificate.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(K)	SHALL	A professional operator's certificate that has not been renewed within six months of the expiration date SHALL not be renewed	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(K)	SHALL	In such cases, the former certificate holder SHALL apply for examination, pay all REQUIRED fees, and pass the examination in order to obtain certification.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(L)	SHALL	However, the professional operator SHALL not be the professional operator of record of a public water system, treatment works, or sewerage system until such time as the contact hour requirements are fulfilled and a renewal certificate is issued.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 15	(M)	SHALL	The director SHALL audit a representative number of renewal applications in order to document compliance with the contact hour requirements.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 17	(A)	SHALL	Upon application to the director for examination, the applicant SHALL pay an examination fee in accordance with section 3745.11 of the Revised Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 17	(B)	SHALL	Upon application to the director for certification as a professional operator who has passed an examination administered by an examination provider approved by the director, the applicant SHALL pay a certification fee in accordance with section 3745.11 of the Revised Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 17	(C)	SHALL	Upon application to the director for certification as a professional operator through reciprocity, the applicant SHALL pay a certification fee in accordance with section 3745.11 of the Revised Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 17	(C)	SHALL	Upon determination of the level of certification that can be granted through reciprocity, the applicant SHALL pay a fee that is equivalent to the examination fee for the level of certification at which reciprocity is granted in accordance with section 3745.11 of the Revised Code	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 17	(D)(1)	SHALL	An applicant SHALL pay a certification renewal fee in accordance with the schedule in section 3745.11 of the Revised Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 17	(D)(2)	SHALL	If the certification renewal fee is received more than thirty calendar days but not more than one year after the expiration date, the applicant SHALL pay a late certification renewal fee in accordance with the schedule in section 3745.11 of the Revised Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 17	(E)	SHALL	Requests for replacement of lost, damaged, or destroyed certificates SHALL be submitted to the director in writing and SHALL be accompanied by a nonrefundable fee in accordance with section 3745.11 of the Revised Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 17	(E)	SHALL	Requests for replacement of lost, damaged, or destroyed certificates SHALL be submitted to the director in writing and SHALL be accompanied by a nonrefundable fee in accordance with section 3745.11 of the Revised Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 17	(F)	SHALL	All fees SHALL be made payable to "Treasurer of the State of Ohio."	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745 - 7 - 18	(A)	SHALL	No person SHALL engage in conduct that subverts or attempts to subvert the application, examination, or review process	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 18	(A)	SHALL	Any such action SHALL cause a person's scores to be withheld and declared invalid.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 18	(A)(1)	SHALL	Persons holding a certificate issued under this chapter SHALL be subject to suspension or revocation of such certificate in accordance with paragraph (A)(1) of rule 3745-7-12 of the Administrative Code, and SHALL also be disqualified from taking future water and wastewater exams for a period of up to five years.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 18	(A)(1)	SHALL	Persons holding a certificate issued under this chapter SHALL be subject to suspension or revocation of such certificate in accordance with paragraph (A)(1) of rule 3745-7-12 of the Administrative Code, and SHALL also be disqualified from taking future water and wastewater exams for a period of up to five years.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 18	(A)(2)	SHALL	Persons who do not possess a certificate issued under this chapter SHALL be disqualified from taking future water and wastewater exams for a period of up to five years.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 18	(B)(5)	SHALL	This rule SHALL not be construed to prevent the applicant for a class IV examination to allow another individual to proofread the work product for minor spelling and grammatical errors.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 18	(C)	SHALL	Actions affecting the status of a person's examination or their eligibility to take future examinations because of conduct defined in paragraph (B) of this rule SHALL be taken in accordance with Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(A)	SHALL	To be eligible for approval as an examination provider, the applicant SHALL do the following:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(A)(3)	SHALL	The examinations SHALL meet the requirements listed in paragraph (B) of this rule.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(A)(8)	SHALL	Such policy SHALL at a minimum REQUIRE an applicant to wait thirty days prior to retaking an examination.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(A)(9)	SHALL	The examinations SHALL be available at each location on multiple days and varying times throughout the year.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(A)(10)	SHALL	The feedback SHALL include the score achieved on the examination and identify core competencies or "Need to Know Criteria" where the examinee scored poorly.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(A)(10)	SHALL	Examinees SHALL have the ability to print a hard copy of the examination results which identifies the examinee, examination classification, score and provider name.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(A)(13)	SHALL	Examination questions and databases SHALL be treated as trade secrets and be exempt from the public records provisions of Chapter 149. of the Revised Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(A)(14)	SHALL	These examinations SHALL meet the criteria established in paragraph (B) of this rule.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745 - 7 - 19	(B)	SHALL	The applicant SHALL demonstrate the examinations meet the following:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(B)(1)	SHALL	The purpose of the examination SHALL be to test a professional operator's knowledge of entry-level standards of practice that SHALL be common to each water and wastewater professional operator classification.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(B)(1)	SHALL	The purpose of the examination SHALL be to test a professional operator's knowledge of entry-level standards of practice that SHALL be common to each water and wastewater professional operator classification.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(B)(2)	SHALL	The job analysis and survey process SHALL identify the core competencies and "Need to Know Criteria" for each classification.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(B)(3)	SHALL	The content of the examinations SHALL be weighted so as to represent the most critical job duties performed by a professional operator in each classification.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(B)(6)	SHALL	The procedures, process and the details associated with actions taken based on the statistical review SHALL be provided.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(C)	SHALL	Approval of an examination provider SHALL be based upon the criteria in paragraph A of this rule and an examination equivalency review by the Ohio EPA and the professional operator certification advisory council.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(D)	SHALL	Upon approval by the director, the approved examination provider SHALL do the following	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(D)(2)	SHALL	The monthly report SHALL be submitted within ten business days of the end of the reporting month.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(D)(4)	SHALL	The fee SHALL be submitted no later than forty-five days after the end of the preceding calendar year.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(D)(4)	SHALL	The fee SHALL be based on the amount of fees collected in the preceding calendar year from professional operator taking examinations who intend to seek certification in Ohio.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(E)(1)	SHALL	The maximum number of trial test questions included in a single examination SHALL not exceed twenty per cent of the total number of questions on examination.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 19	(E)(2)	SHALL	Trial test questions SHALL not be counted toward a candidate's score on the examination.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 20	Intro	SHALL	The director SHALL, in accordance with this chapter, issue appropriate professional operator certificates to applicants who pass an examination from a director approved examination provider and meet the following requirements:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		x
3745 - 7 - 20	(A)(1)	SHALL	After notification of passing the examination from the examination provider, applicants for professional operator certification SHALL submit an application on a form provided by the director.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

3745 - 7 - 20	(A)(1)	SHALL	Certification fees as set forth in section 3745.11 of the Revised Code SHALL be submitted with the application for certification.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 20	(A)(3)	SHALL	When REQUIRED by the professional operator certification advisory council, the applicant SHALL furnish additional documentation to the agency to verify information provided on the application	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 20	(A)(5)	SHALL	Any applicant who submits incomplete, false, or incorrect information on the application SHALL be disciplined as set forth in rule 3745-7-12 of the Administrative Code and will not receive certification.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 20	(B)	SHALL	An applicant who passed an examination from a director approved examination provider before obtaining the REQUIRED operating experience SHALL be designated a professional operator in training, subject to the conditions of paragraph (C) of rule 3745-7-07 of the Administrative Code.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 21	(A)	SHALL	Within thirty days of the effective date of this rule, any person acting as a contracted professional operator or contract operations company SHALL apply for approval as a contracted professional operator on a form provided by the director prior to providing any professional operator services.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 21	(A)	SHALL	A person seeking to become a contracted professional operator or contract operations company SHALL apply for approval at least thirty days prior to initiating contract operations.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 21	(A)	SHALL	A sample contract which is representative of the type of contracts that would be executed with facilities SHALL be provided as part of the approval process.	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 21	(B)	SHALL	All approved contract operations companies or contracted professional operators SHALL comply with the following:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		
3745 - 7 - 21	(B)(4)	SHALL	The report SHALL include the following information:	6111.46, 6109.04	Federal REQUIRED	U.S. EPA's Final Guidelines for the Certification and Recertification of the Operators of Community and Nontransient Noncommunity Public Water Systems; Notice, 64 FR 5915 (February 5, 1999).	x		

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-9-01	intro	SHALL	Except as otherwise noted, the definitions in rule 3745-81-01 of the Administrative Code SHALL apply to this chapter	6109.04, 6111.42	state REQUIRED				
3745-9-01	(F)(3)	REQUIRE	"Floodway" means the channel of a river or stream, and those portions of the floodplain adjoining the channel REQUIRED to carry the flood discharge.	6109.04, 6111.42	state REQUIRED				
3745-9-02	(A)	SHALL	In accordance with division (E) of section 6111.42 of the Revised Code, this chapter SHALL apply to the drilling, operation, maintenance and abandonment of a well or monitoring well to prevent the contamination of the ground water, except that these rules SHALL not apply to a private water system well as defined in Chapter 3701-28 of the Administrative Code	6109.04, 6111.42	state REQUIRED				
3745-9-02	(A)	SHALL not	In accordance with division (E) of section 6111.42 of the Revised Code, this chapter SHALL apply to the drilling, operation, maintenance and abandonment of a well or monitoring well to prevent the contamination of the ground water, except that these rules SHALL not apply to a private water system well as defined in Chapter 3701-28 of the Administrative Code	6109.04, 6111.42	state REQUIRED				
3745-9-02	(A)	SHALL	Unless otherwise noted, this chapter SHALL apply to the drilling, operation, maintenance and abandonment of a nonpotable well as defined in rule 3745-9-01 of the Administrative Code.	6109.04, 6111.42	state REQUIRED				
3745-9-02	(B)	SHALL	No provision of this chapter SHALL be construed so as to exempt any person from compliance with any section of the Revised Code, or any other rule of the Administrative Code, including the department of natural resources and the department of health, or any local ordinance or regulation.	6109.04, 6111.42	state REQUIRED				
3745-9-02	(C)	SHALL	No person SHALL provide water from a public water system well to the public following construction or alteration until plans therefor have been approved by the director in accordance with section 6109.07 of the Revised Code and Chapter 3745-91 of the Administrative Code	6109.04, 6111.42	state REQUIRED				
3745-9-02	(E)	MUST	After April 1, 2016, a community water system that is owned or operated by, or serves a public entity, may perform repairs on wells owned and operated by the public water system. Any contractor hired by a public entity MUST meet the REQUIREments of paragraph (D) of this rule.	6109.04, 6111.42	state REQUIRED				
3745-9-02	(F)	SHALL not	The director SHALL not issue a plan approval for a well serving a public water system, or alteration of such a well, in accordance with Chapter 3745-91 of the Administrative Code, that does not conform to the REQUIREments of this chapter, or which will cause or contribute to contamination of the well or ground water.	6109.04, 6111.42	state REQUIRED				x
3745-9-02	(G)	SHALL	A public water system requesting a variance SHALL submit a variance application as part of the application for plan approval.	6109.04, 6111.42	state REQUIRED				
3745-9-02	(G)	SHALL	The variance application SHALL be reviewed as part of the plan approval in accordance with Chapter 3745-91 of the Administrative Code	6109.04, 6111.42	state REQUIRED				
3745-9-02	(G)	SHALL	The public water system SHALL include in the variance application a detailed explanation of the requested variance and a sufficient demonstration of at least the following information:	6109.04, 6111.42	state REQUIRED				
3745-9-02	(H)	SHALL	Unless a well is otherwise REQUIRED to comply with paragraph (A)(16)(b) of rule 3745-9-05 of the Administrative Code, a public water system SHALL comply with the rules in effect at the date of plan approval issued in accordance with Chapter 3745-91 of the Administrative Code, or the date of installation if no plan was approved, except for the following:	6109.04, 6111.42	state REQUIRED				
3745-9-02	(H)	REQUIRED	Unless a well is otherwise REQUIRED to comply with paragraph (A)(16)(b) of rule 3745-9-05 of the Administrative Code, a public water system SHALL comply with the rules in effect at the date of plan approval issued in accordance with Chapter 3745-91 of the Administrative Code, or the date of installation if no plan was approved, except for the following:	6109.04, 6111.42	state REQUIRED				
3745-9-02	(H)(1)	SHALL	For a well installed prior to May 1, 2003, the casing SHALL terminate at least eight inches above finished grade and be equipped with a well cap, and the vent SHALL terminate at least three feet above the one hundred year floodplain elevation and be protected from damage.	6109.04, 6111.42	state REQUIRED				
	(H)(2)	REQUIRE	The director may REQUIRE a plan approval for an alteration or other modification that is not inconsistent with this chapter, and chemical and microbiological monitoring, for a public water system that had been a private water system well that was constructed in accordance with Chapter 3701-28 of the Administrative Code	6109.04, 6111.42	state REQUIRED				x

3745-9-02	(H)(1)	SHALL	For a well installed prior to May 1, 2003, the casing SHALL terminate at least eight inches above finished grade and be equipped with a well cap, and the vent SHALL terminate at least three feet above the one hundred year floodplain elevation and be protected from damage.	6109.04, 6111.42	state REQUIRED				
3745-9-02	(H)(3)	SHALL	Any submersible well pump with a mercury seal in a public water system well SHALL be replaced, or modified to eliminate mercury seals, within thirty days of discovery; any submersible pump installed after May 1, 2003 SHALL not contain a mercury seal in accordance with paragraph (A)(14)(c) of rule 3745-9-05 of the Administrative Code	6109.04, 6111.42	state REQUIRED				
3745-9-02	(H)(3)	SHALL not	Any submersible well pump with a mercury seal in a public water system well SHALL be replaced, or modified to eliminate mercury seals, within thirty days of discovery; any submersible pump installed after May 1, 2003 SHALL not contain a mercury seal in accordance with paragraph (A)(14)(c) of rule 3745-9-05 of the Administrative Code	6109.04, 6111.42	state REQUIRED				
3745-9-02	(H)(4)	REQUIRE	If a public water system well has a submersible pump with a mercury seal, the director may REQUIRE sampling and analysis for mercury in the well and water system to ascertain if mercury has contaminated the ground water or water system.	6109.04, 6111.42	state REQUIRED				
3745-9-03	(A)	SHALL	If not otherwise regulated by the director, or another Ohio agency, board or commission, the "Ohio EPA Technical Guidance Manual for Hydrogeologic Investigations and Ground Water Monitoring," or other standards adopted by the director, SHALL be used as a guide for monitoring well construction and sealing to prevent the contamination of ground water.	6111.42, 6109.04	state REQUIRED				
3745-9-03	(B)	SHALL	A monitoring well that is damaged or deteriorated SHALL be either repaired to a state consistent with construction REQUIREments of paragraph (A) of this rule, or sealed in accordance with paragraph (A) of this rule.	6111.42, 6109.04	state REQUIRED				
3745-9-03	(C)	SHALL	A monitoring well that is no longer being used SHALL be sealed in accordance with paragraph (A) of this rule.	6111.42, 6109.04	state REQUIRED				
3745-9-03	(A)	SHALL	Public water system and nonpotable wells as defined in rule 3745-9-01 of the Administrative Code SHALL be located in accordance with the following:	6111.42, 6109.04	state REQUIRED				
3745-9-04	(A)(1)	SHALL	Other than a well for the removal of contaminants, SHALL be located the maximum practical distance from potential or known sources of contamination and only where it can be maintained in a sanitary condition.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(A)(2)	SHALL	Other than a well for the removal of contaminants, SHALL be located only where surface and subsurface conditions will not allow contaminants to be conducted into the well.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(A)(3)	SHALL	SHALL be adequately protected from physical damage.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(A)(4)	SHALL	SHALL not be located either within ten feet of or within the foundation of any building, except within a pumphouse.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(A)(5)	SHALL	SHALL be located so the well is accessible for cleaning, treatment, repair, alteration, testing and such other actions as may be necessary.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(B)	SHALL	In addition to paragraph (A) of this rule, a public water system well SHALL meet the following:	6111.42, 6109.04	state REQUIRED				
3745-9-04	(B)(1)	SHALL	A public water system SHALL own all the land or obtain an easement or lease of the sanitary isolation radius of a public water system well, and such easement or lease SHALL be recorded with the county recorder.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(B)(1)	SHALL	A public water system SHALL own all the land or obtain an easement or lease of the sanitary isolation radius of a public water system well, and such easement or lease SHALL be recorded with the county recorder.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(B)(4)	SHALL	Potential sources of contamination SHALL not be constructed or placed within the sanitary isolation radius of a public water system well.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(B)(5)	SHALL	A public water system well SHALL not be located in a floodway without prior acceptance of the director.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(B)(5)	MUST	[Comment: An owner or operator of a public water system that proposes to locate a well in a one hundred year floodplain or floodway MUST also obtain approval from state or local floodplain management agencies as appropriate.]	6111.42, 6109.04	state REQUIRED				
3745-9-04	(B)(6)	SHALL	A public water system well SHALL be located at a minimum in accordance with the following:	6111.42, 6109.04	state REQUIRED				
3745-9-04	(B)(7)	SHALL	A public water system well SHALL be sited such that no landfill or monofill is located within the proposed well's drinking water source protection area.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(C)	SHALL	In addition to paragraphs (A) and (B) of this rule, a public water system well used by a community or nontransient noncommunity public water system SHALL be located such that the following are not located within the proposed well's inner management zone:	6111.42, 6109.04	state REQUIRED				

3745-9-04	(D)	SHALL	The applicant SHALL make an adequate demonstration that documents the site hydrogeology, engineering controls, or other physical barriers are sufficient to minimize the risk of contamination being drawn into the well.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(E)	REQUIRE	The director may REQUIRE a hydrogeologic investigation to select the location of a well to ensure that contaminants will not be drawn into the well and that a sufficient quantity of ground water exists for the intended purpose.	6111.42, 6109.04	state REQUIRED				x
3745-9-04	(E)	REQUIRED	These investigations may be REQUIRED where, without limitation, one of these well siting circumstances exist: potential or known contamination; hydrogeologic setting that may allow transport of contaminants; or initial development of a community well field	6111.42, 6109.04	state REQUIRED				
3745-9-04	(E)	SHALL	The investigation SHALL be conducted by a qualified ground water professional.	6111.42, 6109.04	state REQUIRED				
3745-9-04	(E)	SHALL	Information SHALL be collected, without limitation, about the type and thickness of geologic materials, the occurrence of ground water, how it flows in pore spaces and fractures, and the quantity and quality of the ground water.	6111.42, 6109.04	state REQUIRED				
3745-9-05	intro	SHALL	A nonpotable well SHALL be constructed in accordance with this rule. Paragraph (B) of this rule only applies to public water system wells. Paragraph (C) of this rule applies only to radial collector wells.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)	SHALL	Public water system wells and nonpotable wells. Material used in the drilling process or well construction SHALL meet the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(1)	SHALL	All material used in the construction of the well SHALL be free of contaminants.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(2)	SHALL	All drilling mud, additives and lubricants SHALL have either standard ANSI/NSF 60 or 61 certification	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(2)	SHALL	Drilling fluid or additives that contain guar gum, or other such biodegradable organic material, SHALL not be used during the drilling of a well.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(3)	SHALL	Potable water SHALL be used for drilling purposes. Surface water SHALL not be used for drilling purposes.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(3)	SHALL	If necessary, the potable water SHALL be treated for drilling purposes in accordance with the drilling mud manufacturer recommendations.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)	SHALL	Well casing, other than in a point well or radial collector well, SHALL meet the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(a)	SHALL	Nominal pipe size of permanent casing SHALL be a minimum of five inches and sized to allow the well to produce water that is adequate for the intended use, and to allow for the installation and maintenance of the well and related pumping equipment.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)	SHALL	Steel pipe or tubing used as permanent well casing or liners SHALL conform to the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)(ii)(e)	SHALL	ASTM A500-01a, "Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes" (2001), except this tubing SHALL not be used in a public water system well.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)(iv)	REQUIRED	Be greater than minimum wall thickness and weight when REQUIRED either to withstand the stresses of installation, grouting and operation, or corrosion.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)(vii)	SHALL	Be structurally sound, watertight throughout its length, and SHALL have threaded and coupled or welded joints that meet the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)(vii)(a)	SHALL	Well couplings SHALL have a design, taper, and type of thread that is consistent with the thread of the pipe.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)(vii)(a)	SHALL	No more than three threads SHALL be exposed on fourteen thread pipe and no more than two threads SHALL be exposed on eight thread pipe.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)(vii)(a)	SHALL	No more than three threads SHALL be exposed on fourteen thread pipe and no more than two threads SHALL be exposed on eight thread pipe.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)(vii)(a)	SHALL	Threaded pipe and couplings SHALL meet one of these standards: ASTM A53/A53M-01, ASTM A589-96, or "API RP 5B1, Gauging and Inspection of Casing, Tubing, and Line Pipe Threads," fifth edition, August 1999, Product Number G05B15, Document Number API RP 5B1.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)(vii)(b)	SHALL	Welded joints SHALL form a structurally sound and watertight joint	6111.42, 6109.04	state REQUIRED				

3745-9-05	(A)(4)(b)(vii)(b)	SHALL	Butt-welds SHALL be made using a guide. Steel pipe that is equal to or less than eight inches in diameter SHALL have a minimum of two weld passes.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)(vii)(b)	SHALL	Steel pipe that is greater than eight inches in diameter SHALL have a minimum of three weld passes. Acceptable welding procedures are as follows:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(b)(vii)(b)(i)	SHALL	Plain end well casing pipe that is eight inches nominal pipe size or less, and with wall thickness up to 0.5 inch SHALL be in accordance with specifications in the "American Welding Society" manual, "AWS D10.12M/D10.12:2000, Guide for Welding Mild Steel Pipe."	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(c)	SHALL	Thermoplastic pipe that is used as permanent well casing, liners, well screen risers, blanks or tail pipes SHALL meet the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(c)(v)	REQUIRED	Have greater than minimum wall thickness and weight when REQUIRED either to withstand stresses of installation, or grouting, or operation, or because of collapse considerations.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(c)(vii)(a)	SHALL	Thermoplastic casing joints and couplings SHALL meet standards ASTM F480-00 and ANSI/NSF 14.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(4)(c)(vii)(c)	SHALL	Thermoplastic couplings SHALL be legibly marked as applicable with the nominal well casing pipe coupling size, type of plastic, designation of compliance with standards ASTM F480-00 and ANSI/NSF 14, and the manufacturer's name or trademark.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(5)	SHALL	Defective, visibly damaged or reject pipe SHALL not be used as casing or liner pipe for wells.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(6)	SHALL	Casing SHALL extend continuously, at a minimum, either to the top of the aquifer or to the top of the non-water bearing consolidated formations above an aquifer.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(7)	SHALL	Casing and borehole SHALL be sufficiently straight and vertical to allow for normal installation and operation of the pump and uniform placement of grout.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(8)	SHALL	The pitless adapter or pitless unit and installation procedures in above and below ground surface installations SHALL adequately prevent the entrance of surface water, dirt, animals, insects or other foreign matter.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)	SHALL	A pitless adapter or pitless unit connection to a well casing that is made either below ground surface or less than twelve inches above ground surface SHALL be installed through the following methods:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(a)	SHALL	The pitless adapter or pitless unit SHALL be connected by welding or threading as REQUIRED by the type of unit and the manufacturer.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(a)	REQUIRED	The pitless adapter or pitless unit SHALL be connected by welding or threading as REQUIRED by the type of unit and the manufacturer.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(a)	SHALL	Any hole penetrating the side of the casing for access by the pitless adapter or pitless unit SHALL be of the size and dimension as REQUIRED by the manufacturer, and SHALL be made using a hole saw or other tool capable of making a clean and uniform hole to allow proper sealing.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(a)	SHALL	Any hole penetrating the side of the casing for access by the pitless adapter or pitless unit SHALL be of the size and dimension as REQUIRED by the manufacturer, and SHALL be made using a hole saw or other tool capable of making a clean and uniform hole to allow proper sealing.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(a)	REQUIRED	Any hole penetrating the side of the casing for access by the pitless adapter or pitless unit SHALL be of the size and dimension as REQUIRED by the manufacturer, and SHALL be made using a hole saw or other tool capable of making a clean and uniform hole to allow proper sealing.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(a)	SHALL	A cutting torch SHALL not be used to install a pitless adapter except for a non-circular hole in the casing where the manufacturer's recommended guide is used and all edges and the exterior casing surface are ground or filed to a smooth and uniform surface.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(b)	SHALL	The inside diameter of the pitless unit SHALL not be smaller than the inside diameter of the casing.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(b)	SHALL	No part of a pitless adapter or pitless unit SHALL extend into the inside diameter of a well casing so that setting or removal of the pump, pump piping or drop pipe, or the use of tools for well rehabilitation or disinfection is impeded.	6111.42, 6109.04	state REQUIRED				

3745-9-05	(A)(9)(c)	REQUIRED	Upon installation of the pitless adapter or pitless unit below ground surface, the annular space that is REQUIRED in accordance to paragraph (A)(17) of this rule surrounding the casing and pitless adapter or pitless unit SHALL be filled with either re-compacted clean cohesive native soil or grout.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(c)	SHALL	Upon installation of the pitless adapter or pitless unit below ground surface, the annular space that is REQUIRED in accordance to paragraph (A)(17) of this rule surrounding the casing and pitless adapter or pitless unit SHALL be filled with either re-compacted clean cohesive native soil or grout.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(d)	SHALL	A pitless unit may be attached using a structural or mechanical joint that SHALL do the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(e)	SHALL	Pitless adapter or pitless unit connections to thermoplastic pipe SHALL meet the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(e)(i)	SHALL	Where a pitless adapter is installed by clamping on thermoplastic casing, a backing plate, wide steel strap or casting SHALL be installed to protect the integrity of the thermoplastic casing at the point of the pitless adapter connection.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(e)(ii)	SHALL	Steel well casing pipe extension, pitless unit and pitless adapter SHALL not be welded after they are attached to thermoplastic well casing.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(e)(ii)	SHALL	Thermoplastic coupling SHALL be threaded onto the pitless unit before it is solvent cemented to the top of the casing.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(e)(iii)	SHALL	Threaded connections SHALL only be installed on a pitless unit or pitless adapters after attachment to the well casing pipe.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(f)	SHALL	When steel well casing pipe is not terminated at the desired depth for the installation of a pitless unit, the well casing pipe SHALL be cut off at the desired height, and the pitless unit may be welded or threaded and coupled to the top of the well casing pipe by one of the following methods:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(9)(f)(ii)	SHALL	The top of the well casing pipe and the bottom of the pipe nipple to be welded SHALL both have beveled ends.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(10)	SHALL	A connection to a well casing that is made above ground SHALL be installed through the following methods:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(11)	SHALL	Well casing height above finished grade SHALL be at least twelve inches, and at least twelve inches above the well house floor or concrete apron surface, per the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(11)(a)	SHALL	Where a well house is constructed, the floor surface SHALL be at least six inches above the finished grade	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(11)(b)	SHALL	The finished grade SHALL be sloped for surface water runoff away from the well.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(12)	SHALL	A well SHALL have a well cap or seal to prevent the entrance of water, dirt, animals, insects or other foreign matter.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(12)	SHALL	The top of the casing at its finished height SHALL be cut so that the surface will fit flush with the well cap and provide a tight seal.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(12)	SHALL	The well cap or seal SHALL fit securely to the top of the well casing, be secured with screws or other appropriate connections, and vent to the atmosphere.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(12)	SHALL	Electrical conduit connections on the well cap or seal SHALL be threaded and sealed to prevent the entrance of insects and water.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(13)	SHALL	A room housing pumping equipment, well house or pumphouse, SHALL conform to the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(14)	SHALL	Pump construction, installation, design and maintenance SHALL comply with the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(14)(a)	SHALL	A pump SHALL be constructed so that there are no unprotected openings into the interior of the pump or well casing.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(14)(b)	SHALL	If an above ground pump or line shaft pump are used, it SHALL be attached to the casing, or suction or discharge line by a watertight connection, or SHALL have a base plate that conforms to paragraph (A)(10) of this rule.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(14)(b)	SHALL	If an above ground pump or line shaft pump are used, it SHALL be attached to the casing, or suction or discharge line by a watertight connection, or SHALL have a base plate that conforms to paragraph (A)(10) of this rule.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(14)(c)	SHALL	A submersible pump motor SHALL not have a mercury seal.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(14)(d)	SHALL	Below ground water service pipe SHALL be maintained under system pressure at all times	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(14)(d)	SHALL	A check valve SHALL not be installed between a pitless adapter or pitless unit and the pressure tank.	6111.42, 6109.04	state REQUIRED				

3745-9-05	(A)(14)(e)	SHALL	To prevent contaminants from entering the well, a temporary watertight well cap or seal SHALL be provided until the pumping equipment is installed.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(15)	SHALL	A vent SHALL be provided on all well caps and seals except for those used on deep well single pipe packer jet installations, or flowing wells where the flow rate is greater than the pumping rate of the permanent pump.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(15)	SHALL	A well vent SHALL be self-draining, screened with a noncorroding mesh screen of fifteen to thirty mesh, pointed downward at or above the top of the casing or pitless unit.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(15)	SHALL	A vent SHALL terminate not less than twelve inches above ground surface, and at least twelve inches above the well house floor or concrete apron surface.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(15)	SHALL	The well vent SHALL extend a minimum of three feet above the one hundred year floodplain elevation, or highest known flood elevation, whichever is higher.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(16)	SHALL	Maintenance, modification and alteration of a well SHALL comply with the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(16)(a)	SHALL	Casing and top of well SHALL be protected against contamination or inadvertent damage.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(16)(b)	SHALL	A well SHALL be altered, modified or repaired in accordance with this chapter, or a well SHALL be sealed in accordance with rule 3745-9-10 of the Administrative Code, if one or more of the following situations exist:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(16)(b)	SHALL	A well SHALL be altered, modified or repaired in accordance with this chapter, or a well SHALL be sealed in accordance with rule 3745-9-10 of the Administrative Code, if one or more of the following situations exist:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(17)	SHALL	If the casing is not driven and the drilling method REQUIRES the drilling of an oversized borehole, the annular space SHALL be a minimum of 1.5 inches for a well less than or equal to fourteen inches in diameter, and a minimum of two inches for a well greater than fourteen inches in diameter.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(17)	REQUIRES	If the casing is not driven and the drilling method REQUIRES the drilling of an oversized borehole, the annular space SHALL be a minimum of 1.5 inches for a well less than or equal to fourteen inches in diameter, and a minimum of two inches for a well greater than fourteen inches in diameter.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(18)	SHALL	A casing may be extended to meet the REQUIREments in paragraph (A)(11) of this rule using a structural or mechanical joint that SHALL do all of the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(A)(19)	SHALL	SHALL be constructed in accordance with the REQUIREments in rule 3745-9-06 of the Administrative Code	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)	SHALL	Public water system wells. In addition to the REQUIREments of paragraph (A) of this rule, the material used in the drilling process or the construction of a public water system well SHALL meet the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(1)	SHALL	Unless otherwise noted in this chapter, all chemicals, substances, and materials added to or brought in contact with water in a public water system well SHALL have either standard ANSI/NSF 60 or 61 certification in accordance with rule 3745-83-01 of the Administrative Code.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(2)	SHALL	Tubing per ASTM A500-01a SHALL not be used in a public water system well.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(3)	SHALL	Well casings SHALL extend at least twenty-five feet below ground surface. If nonpotable water is encountered, one of the following MUST be completed:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(3)	MUST	If nonpotable water is encountered, one of the following MUST be completed:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(3)(a)	SHALL	Above an aquifer containing potable water, the casing SHALL extend to the bottom of the aquifer containing the nonpotable water and SHALL be grouted as deep as necessary to prevent the nonpotable water from entering the aquifer containing potable water.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(3)(a)	SHALL	Above an aquifer containing potable water, the casing SHALL extend to the bottom of the aquifer containing the nonpotable water and SHALL be grouted as deep as necessary to prevent the nonpotable water from entering the aquifer containing potable water.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(3)(b)	SHALL	Below an aquifer containing potable water, the lower portion of the well SHALL be filled with cement grout or bentonite grout, to a height sufficient to prevent entrance of nonpotable water into the aquifer containing potable water.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(4)	SHALL	For a public water system well with vertical turbine or line shaft pumps, the well SHALL be tested for plumbness and alignment in accordance with appendix D of standard "AWWA A100-97, Water Wells", February 1, 1998, catalog number 41100, or alternative procedures acceptable to the director.	6111.42, 6109.04	state REQUIRED				

3745-9-05	(B)(5)	SHALL	The maximum allowable horizontal deviation from vertical SHALL not exceed two thirds of the smallest inside diameter of that part of the well being tested per one hundred feet of depth.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)	SHALL	Well screens SHALL be installed in a public water system well in unconsolidated or incompetent geologic formations per the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(a)	SHALL	Screen SHALL be constructed of steel, stainless steel, thermoplastic or lead free brass.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(a)	SHALL	A lead free brass screen SHALL have a dielectric connection to the casing to reduce corrosion.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(b)	SHALL	Thermoplastic screens SHALL have standard ANSI/NSF 61 certification.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(c)	SHALL	Lead free brass screens SHALL meet a director approved standard, including but not limited to ANSI/NSF 61 certification.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(d)	SHALL	For a well with a design pumping rate greater than three hundred fifty gallons per minute, the screen SHALL have size of openings determined upon sieve analysis of the aquifer formation or filter pack in accordance with standard AWWA A100-97, "Water Wells", and the screen SHALL have uniform openings and a maximum entrance velocity of 0.1 feet per second.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(d)	SHALL	For a well with a design pumping rate greater than three hundred fifty gallons per minute, the screen SHALL have size of openings determined upon sieve analysis of the aquifer formation or filter pack in accordance with standard AWWA A100-97, "Water Wells", and the screen SHALL have uniform openings and a maximum entrance velocity of 0.1 feet per second.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(e)	SHALL	The screen SHALL provide sufficient column and collapse strength to withstand installation and borehole pressures.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(f)	SHALL	Screen joints between screen sections and blank casing SHALL be welded, or threaded and coupled.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(g)	SHALL	Screen installation using telescoping methods SHALL be attached either directly to the bottom of the casing or to a packer.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(h)	SHALL	Screens SHALL be installed that minimize corrosion caused by contact with dissimilar steel casing. Thermoplastic screen may be attached to steel casing with the use of an appropriate coupler.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(i)	SHALL	Screen SHALL be provided with a bottom plate or washdown bottom fitting of the same material as the screen.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(i)	SHALL	Neither lead shot nor lead wool SHALL be installed to seal the screen bottom.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(6)(j)	SHALL	Where filter pack or formation stabilizer is installed, the screen SHALL have centralizers outside the top and bottom of the screen to ensure an even filter pack.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(7)	SHALL	Filter pack or formation stabilizer for a public water system well SHALL consist of well-rounded particles that conform to the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(8)	SHALL	Filter pack SHALL be installed in a well where the formation is nonhomogeneous, the uniformity coefficient of the aquifer formation is less than 3.0, and the effective grain size is less than 0.01 inches.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(8)	SHALL	Filter pack or formation stabilizer installed in unconsolidated or incompetent formations SHALL be placed in accordance with the following specifications:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(8)(a)	SHALL	Filter pack or formation stabilizer SHALL extend a minimum of two feet above the screen for a well less than or equal to six inches in diameter, or a minimum of four feet above the screen for a well greater than six inches in diameter.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(8)(a)	SHALL	Filter pack or formation stabilizer SHALL be at least twenty-five feet below ground surface.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(8)(b)	SHALL	Filter pack or formation stabilizer SHALL be no less than three inches thick and no more than eight inches thick, to facilitate proper well development.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(8)(c)	SHALL	Filter pack effective grain size SHALL be determined by a sieve analysis of the aquifer formation.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(8)(c)	SHALL	The seventy per cent retained size of the filter pack SHALL be four to six times greater than seventy per cent retained size of the aquifer formation.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(8)(c)	SHALL	The uniformity coefficient of the filter pack SHALL not exceed 2.5.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(8)(d)	SHALL	If installed, filter pack refill pipes SHALL be standard weight steel or plastic pipe incorporated within the pump foundation and terminate with screwed or welded caps at least twelve inches above the pumphouse floor or concrete apron.	6111.42, 6109.04	state REQUIRED				

3745-9-05	(B)(8)(d)	SHALL	Filter pack refill pipes SHALL pass through the grouted annular space where they SHALL be surrounded by a minimum of 1.5 inches of grout.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(9)	SHALL	Packers and shale traps SHALL be constructed of materials that have standard ANSI/NSF 61 certification	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(9)	SHALL	Lead packers SHALL not be used.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(10)	SHALL	The pitless adapter or pitless unit SHALL meet the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(11)	SHALL	The well cap SHALL conform with "Water System Council Pitless Adapter Standard PAS-97" or with an alternative standard acceptable to the director.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(12)	SHALL	A well located in a floodplain SHALL comply with the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(12)(a)	SHALL	The casing, well cap, well vent and pumphouse floor SHALL extend a minimum of three feet above the one hundred year floodplain elevation or highest known flood elevation, whichever is higher	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(12)(b)	SHALL	The one hundred year flood elevation SHALL be determined by reference to the FEMA flood map for the well location.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(B)(12)(b)	REQUIRE	The director may REQUIRE the wellhead and floodplain elevations to be determined by a professional surveyor or professional engineer.	6111.42, 6109.04	state REQUIRED				x
3745-9-05	(B)(12)(b)	SHALL	For purposes of this rule, professional surveyor and professional engineer SHALL have the same meanings as defined in section 4733.01 of the Revised Code.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(C)	SHALL	Radial collector wells. A radial collector well SHALL comply with the following:	6111.42, 6109.04	state REQUIRED				
3745-9-05	(C)(1)	SHALL	The caisson SHALL be constructed of watertight reinforced portland cement concrete with watertight joints.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(C)(2)	SHALL	The caisson wall SHALL be reinforced to withstand the forces to which it will be subjected.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(C)(3)	SHALL	Lateral collectors SHALL be in areas and at depths accepted by the director.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(C)(3)	SHALL	The area around the laterals SHALL be under the control of the public water system for a distance of three hundred feet beyond the laterals	6111.42, 6109.04	state REQUIRED				
3745-9-05	(C)(4)	SHALL	Provisions SHALL be made to assure that collectors are essentially horizontal	6111.42, 6109.04	state REQUIRED				
3745-9-05	(C)(5)	SHALL	The top of the caisson SHALL be covered with a watertight floor	6111.42, 6109.04	state REQUIRED				
3745-9-05	(C)(6)	SHALL	All openings in the floor SHALL be curbed and protected from entrance of foreign material.	6111.42, 6109.04	state REQUIRED				
3745-9-05	(C)(7)	SHALL	The pump discharge piping SHALL not be placed through caisson walls.	6111.42, 6109.04	state REQUIRED				
3745-9-05	appendix	SHALL	Where schedule 80 pipe is used, the wall thickness SHALL be at least as thick as REQUIRED in accordance with paragraph (A)(4)(c) of this rule.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)	SHALL	In addition to the REQUIREments of rule 3745-9-05 of the Administrative Code, a well completed in specific geologic conditions SHALL be constructed according to the following procedures:	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(1)	SHALL	Where consolidated formations are encountered within twenty-five feet of the ground surface, an oversized borehole SHALL be drilled and the annular space SHALL be filled with grout by pressure grouting.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(1)	SHALL	Where consolidated formations are encountered within twenty-five feet of the ground surface, an oversized borehole SHALL be drilled and the annular space SHALL be filled with grout by pressure grouting	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(2)	SHALL	A well completed where multiple aquifers are present SHALL have the casing extend through aquifers that are not contributing to the water supply of the well.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(2)	SHALL	The annular space contiguous to aquifers that are not contributing to the water supply of the well SHALL be filled with grout by pressure grouting.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(3)	SHALL	A well completed in confined aquifers SHALL have the casing extend through the confining layer to the top of the aquifer	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(3)	SHALL	The annular space contiguous to the confining formation SHALL be filled with grout by pressure grouting.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(3)	SHALL	Filter packs and formation stabilizers SHALL not extend significantly into a confining formation or allow interconnection of two separate aquifers along the annular space	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)	SHALL	A well completed in aquifers with hydrostatic heads greater than the land surface elevation SHALL have casing and grout installed to protect the aquifer, prevent erosion of the overlying geologic materials and confine the flow to within the casing, and SHALL be constructed according to the following procedures:	6111.42, 6109.04	state REQUIRED				

3745-9-06	(A)(4)(a)	SHALL	The annular space SHALL then be filled with cement grout by pressure grouting	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(a)	SHALL	The density of cement grout SHALL be sufficient to control flow in the annular space, but no less than that REQUIRED by rule 3745-9-07 of the Administrative Code	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)	SHALL	If the water flow at the ground surface is anticipated to exceed five gallons per minute, an upper enlarged borehole SHALL be drilled partially into the confining formation.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)	SHALL	The upper enlarged borehole SHALL be at least four inches in diameter larger than the nominal diameter of the outer well casing.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)	SHALL	The annular space between the upper enlarged borehole and outer well casing SHALL be filled with cement grout by pressure grouting.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)	SHALL	Where outer casing is not removed, the casing SHALL be withdrawn at least five feet to ensure grout contact with the formation.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)(i)	SHALL	If the confined aquifer is consolidated, a smaller diameter borehole SHALL be drilled through the upper enlarged borehole, the inner casing SHALL be firmly seated into the bedrock, and the remaining annular space SHALL be filled with cement grout by pressure grouting.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)(i)	SHALL	If the confined aquifer is consolidated, a smaller diameter borehole SHALL be drilled through the upper enlarged borehole, the inner casing SHALL be firmly seated into the bedrock, and the remaining annular space SHALL be filled with cement grout by pressure grouting.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)(i)	SHALL	If the confined aquifer is consolidated, a smaller diameter borehole SHALL be drilled through the upper enlarged borehole, the inner casing SHALL be firmly seated into the bedrock, and the remaining annular space SHALL be filled with cement grout by pressure grouting.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)(i)	SHALL	The density of cement grout SHALL be sufficient to control flow in the annular space, but no less than that REQUIRED by rule 3745-9-07 of the Administrative Code.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)(ii)	SHALL	If the confined aquifer is unconsolidated, a smaller diameter borehole SHALL be drilled through the upper enlarged borehole, with casing and a screen installed into the confined aquifer.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)(ii)	SHALL	The well SHALL be double-cased, and the remaining annular space filled with cement grout by pressure grouting.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(4)(b)(ii)	SHALL	The density of cement grout SHALL be sufficient to control flow in the annular space, but no less than that REQUIRED by rule 3745-9-07 of the Administrative Code.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(5)	SHALL	A well completed in a cavernous formation or mine SHALL be constructed according to the following:	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(5)(a)	SHALL	A cavernous formation or mine that is not being used as a source of water SHALL have casing installed through the formation or mine, as follows:	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(5)(a)(i)	SHALL	If a cavernous formation or mine is greater than twenty-five feet below ground surface, then the formation or mine SHALL be filled with cuttings, clean gravel or grout.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(5)(a)(i)	SHALL	Packers or shale traps SHALL be installed at the top and bottom of the formation or mine.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(5)(a)(i)	SHALL	The annular space SHALL then be filled with grout by pressure grouting.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(5)(a)(ii)	SHALL	If a cavernous formation or mine is less than twenty-five feet below ground surface, casing SHALL be installed in an enlarged borehole and the annular space SHALL be filled with a cement grout containing additives that promote bridging of the cavernous formation or mine by pressure grouting to a depth of at least five feet beyond the formation or mine.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(5)(a)(ii)	SHALL	If a cavernous formation or mine is less than twenty-five feet below ground surface, casing SHALL be installed in an enlarged borehole and the annular space SHALL be filled with a cement grout containing additives that promote bridging of the cavernous formation or mine by pressure grouting to a depth of at least five feet beyond the formation or mine.	6111.42, 6109.04	state REQUIRED				

3745-9-06	(A)(5)(b)	SHALL	If a cavernous formation or mine will be the source of water supply, then a packer or shale trap SHALL be installed at the top of the formation or mine and the annular space SHALL be filled by pressure grouting with grout.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(6)	SHALL	A well encountering brine producing formations SHALL be constructed according to these procedures.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(6)	SHALL	Brine producing formations that are encountered during drilling SHALL have casing installed throughout the entire formation.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(6)	SHALL	The annular space contiguous to the brine producing formation SHALL be filled with grout by pressure grouting, or the well SHALL be sealed to an elevation higher than the top of the brine producing formation.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(6)	SHALL	The annular space contiguous to the brine producing formation SHALL be filled with grout by pressure grouting, or the well SHALL be sealed to an elevation higher than the top of the brine producing formation.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(6)	SHALL	Grout that is not adversely affected by the brine water SHALL be used for sealing the well or annular space.	6111.42, 6109.04	state REQUIRED				
3745-9-06	(A)(7)	SHALL	Except when a well is completed in the upper-most weathered portion of a consolidated formation, a well completed in a consolidated formation SHALL have the casing extend into the formation so that the well casing will not settle or shift, and will have a proper annular seal.	6111.42, 6109.04	state REQUIRED				
3745-9-07	A	SHALL	One of the following grouts SHALL be used for sealing a well, test hole, dry hole or annular space:	6111.42, 6109.04	State REQUIRED				
3745-9-07	A(2)	SHALL	Bentonite grout SHALL not contain bentonite drilling mud or cuttings.	6111.42, 6109.04	State REQUIRED				
3745-9-07	B	SHALL	Grout SHALL be processed and placed in a well, test hole, dry hole or annular space in accordance with the following:	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(1)	SHALL	Cement grout SHALL be mixed using potable water and cured according to the following specifications:	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(1)(a)	SHALL	Type I, II, IV and V cement SHALL be mixed by adding not more than 5.2 gallons of water per ninety-four pounds of cement, with a minimum density of fifteen pounds per gallon.	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(1)(b)	SHALL	Type III cement SHALL be mixed by adding 6.3 to seven gallons of water per ninety-four pounds of cement.	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(1)(c)	SHALL	Concrete with a minimum density of 17.5 pounds per gallon SHALL be mixed by adding ninety-four pounds of cement, an equal amount of sand, and not more than six gallons of water.	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(1)(d)	SHALL	Cement with a minimum density of fifteen pounds per gallon that has calcium chloride added as an accelerator to speed up the rate of curing SHALL be mixed by adding two to four pounds of calcium chloride per ninety-four pounds of cement	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(1)(e)	SHALL	Cement grout SHALL cure a minimum of twenty-four hours before drilling operations are resumed either when standard type I and type II cement. Cement grout SHALL cure a minimum of twelve hours before drilling operations are resumed when high early type III cement grout is used.	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(2)	SHALL	Bentonite grout SHALL be mixed according to the manufacturer's recommendations to achieve at least twenty per cent solids. Synthetic organic polymers that have standard ANSI/NSF 60 certification may be added to bentonite grout to suppress hydration of the bentonite particles and SHALL be mixed according to the manufacturer's recommendations.	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(3)	SHALL	When using coarse grade or pelletized bentonite, the bentonite SHALL be poured slowly into the top of the well to prevent bridging in the casing or borehole, in accordance with the following procedures:	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(3)(a)	SHALL	Coarse grade or pelletized bentonite SHALL be poured over a wire one fourth inch mesh screen to keep the fine bentonite powder from entering the well. Fine bentonite particles that accumulate in the shipping container SHALL not be used	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(3)(b)	SHALL	Coarse grade or pelletized bentonite SHALL be poured at a continuous rate, no faster than fifty pounds per three minutes.	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(3)©	SHALL	The pouring process SHALL be halted intermittently in order to lower a weighted measuring tape into the well to determine the top of the grout and confirm that bridging has not occurred. Where possible, a tamping device SHALL be used to break any bridges that may form.	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(3)(d)	SHALL	Coarse grade or pelletized bentonite SHALL be periodically hydrated when poured above the static water level.	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(4)	SHALL	When pressure grouting, the grout SHALL be placed in a continuous operation without interruption until the cement or bentonite grout of approximately the same density as the grout being placed into the borehole is coming out of the annular space.	6111.42, 6109.04	State REQUIRED				
3745-9-07	B(5)	SHALL	After grout has been placed, the grout SHALL cure a minimum of twelve hours to assess whether any settling of the grout has occurred. If settling has occurred, then additional grout SHALL be placed.	6111.42, 6109.04	State REQUIRED				

3745-9-07		SHALL	An annular space SHALL be completely filled with grout from the bottom of the annular space, or from the top of the filter pack or formation stabilizer, upward to the ground surface. (See the appendix to this rule for the volume of annular space between casing and borehole.) The annular space SHALL be completely filled in accordance with the following:	6111.42, 6109.04	State REQUIRED				
3745-9-07	C(3)	SHALL	Except as otherwise provided in this rule, and rule 3745-9-06 of the Administrative Code, the annular space SHALL be filled with cement grout or bentonite grout, which SHALL be placed in the annular space of a well by pressure grouting.	6111.42, 6109.04	State REQUIRED				
3745-9-07	C(2)	SHALL	An annular space between a permanent casing and a temporary casing SHALL be filled with grout during temporary casing removal. Where temporary casing removal is not possible or practical, temporary casing SHALL be withdrawn at least five feet to ensure grout contact with the formation.	6111.42, 6109.04	State REQUIRED				
3745-9-07	C(6)	SHALL	The dry driven grouting method may be used. Well construction using a cable tool, driven casing hammer or any other method where the permanent casing is driven, and where temporary outer casing or an oversized borehole is not used, a collar, flared joint or well bead SHALL extend beyond the outside diameter of the permanent casing and dry granular bentonite SHALL be poured around the permanent casing as it is being driven. The well site SHALL be where thick deposits of low permeable clayey glacial till or other low permeable materials overlie the aquifer and where the well site is not located in an area of microbiological or chemical contamination. The dry driven grouting method may be used for a public water system well only with prior acceptance by the director.	6111.42, 6109.04	State REQUIRED				
3745-9-08	A	SHALL	A public water system well SHALL be disinfected after completion of construction, installation, development, alteration or repair, and before supplying water for human consumption.	6111.42, 6109.04	State REQUIRED				
3745-9-08	B	SHALL	The standard "AWWA C654-13, Disinfection of Wells," SHALL be used as a guide except for the topics presented in sections 4.2, 4.5 and 5, that are otherwise specified in paragraphs (C), (D) and (E) of this rule.	6111.42, 6109.04	State REQUIRED				
3745-9-08	C	SHALL	The following disinfection procedures SHALL apply:	6111.42, 6109.04	State REQUIRED				
3745-9-08	C(1)	SHALL	Disinfectant SHALL be slowly poured into the well by wetting the inside casing circumference, drop pipe and electrical cable.	6111.42, 6109.04	State REQUIRED				
3745-9-08	c(2)	SHALL	Disinfectant concentration in the water column SHALL be initially at least one hundred milligrams per liter chlorine.	6111.42, 6109.04	State REQUIRED				
3745-9-08	C(3)	SHALL	Water in the well SHALL be agitated or surged to ensure even dispersal of the disinfectant throughout the entire water column.	6111.42, 6109.04	State REQUIRED				
3745-9-08	C(4)	SHALL	Disinfectant contact time SHALL be at least eight hours.	6111.42, 6109.04	State REQUIRED				
3745-9-08	C(5)	SHALL	Disinfectant SHALL be thoroughly flushed or dissipated from the well before supplying water for human consumption.	6111.42, 6109.04	State REQUIRED				
3745-9-08	C(6)	SHALL	When calcium hypochlorite is used for disinfection, the tablets or granules SHALL be completely dissolved in water prior to placement into the well. Sodium hypochlorite solution SHALL be used within the manufacturer's posted expiration date. Sodium hypochlorite solution with fragrance additives SHALL not be used for disinfection	6111.42, 6109.04	State REQUIRED				
3745-9-08	C(8)	SHALL	Disinfectant SHALL have ANSI/NSF 60 certification.	6111.42, 6109.04	State REQUIRED				
3745-9-08	D	SHALL	After disinfection, a well SHALL be flushed for a minimum of fifteen minutes	6111.42, 6109.04	State REQUIRED				
3745-9-08	C(7)	REQUIRE	The director may REQUIRE submission of chemical disinfection procedures with specific	6111.42, 6109.04	State REQUIRED				
3745-9-08	F	REQUIRE	A system with a well unable to meet paragraph (D) of this rule after the second chlorination MUST consult with the director for corrective action, which may include compliance with paragraph (B) of rule 3745-81-42 of the Administrative Code	6111.42, 6109.04	State REQUIRED				
3745-9-09	A	SHALL	A public water system well SHALL be developed upon completion to remove the native silts and clays, drilling mud or finer fraction of the filter pack until turbidity or sand content in the well is minimal.	6111.42, 6109.05	State REQUIRED				
3745-9-09	A(1)	SHALL	Mechanical development SHALL be performed so as not to cause damage to the components of the well.	6111.42, 6109.04	State REQUIRED				
3745-9-09	A(2)(a)	SHALL	Dispersants that contain phosphorous compounds SHALL not be used during the development of a well.	6111.42, 6109.04	State REQUIRED				
3745-9-09	A(2)(b)	SHALL	Dispersant SHALL be immediately flushed from the well and aquifer to prevent bacterial growth in the aquifer.	6111.42, 6109.04	State REQUIRED				
3745-9-09	A(2)(c)	SHALL	Dispersant SHALL be premixed and used according to the manufacturer's recommendations.						
3745-9-09	A(2)(d)	SHALL	Acid SHALL be used according to the manufacturer's recommendations. Proper pH SHALL be maintained in the borehole to ensure the effective action of the acid. Proper pH SHALL be maintained in the borehole to ensure the effective action of the acid	6111.42, 6109.04	State REQUIRED				
3745-9-09	B	SHALL	a pumping test SHALL be conducted upon completion of development of the public water system well and conform to the following:	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(3)	SHALL	The determination of a permanent design pumping rate for a new public water system well SHALL include analysis of the effects of interference drawdown from other wells owned by the public water system as well as other high capacity wells not owned by the public water system.	6111.42, 6109.04	State REQUIRED				

3745-9-09	B(4)(a)	SHALL	For low or medium use wells, the pumping test SHALL be conducted at a constant rate for a period of at least normal operation either at the peak hourly demand, or at least 1.5 times the anticipated permanent design pumping rate if the well cannot sustain peak hourly flow. For a community water system well, the duration of the constant rate pumping test SHALL be no less than twenty-four hours.						
3745-9-09	B(4)(b)	SHALL	For all high use wells, a step-drawdown test SHALL be conducted, followed by a constant rate pumping test.	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(4)(b)(i)	SHALL	The step-drawdown test SHALL be used to obtain sufficient hydrogeologic information to design an appropriate constant rate pumping test for the well. The step-drawdown test SHALL, at a minimum conform to the following	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(4)(b)(i)(b)	SHALL	Each step SHALL be of approximately equal duration.	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(4)(b)(i)(c)	SHALL	Each step SHALL be run at a constant pumping rate for no less than forty-five minutes.						
3745-9-09	B(4)(b)(ii)	SHALL	The constant rate pumping test SHALL be conducted for at least twenty-four hours at a pumping rate of at least 1.5 times the anticipated permanent design pumping rate. The constant rate pumping test SHALL not commence until the water level has recovered to at least ninety per cent of the drawdown caused by the step-drawdown test or twenty-four hours after the completion of the step-drawdown test, whichever comes first.	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(4)(c)	SHALL	The public water system SHALL consult with the Ohio environmental protection agency to determine if the constant rate pumping test will need to extend beyond twenty-four hours if any of the following conditions exist at the time a new well site is proposed or can be expected to result from the well's operation:	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(5)	SHALL	The pumping test SHALL include the following:	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(5)(a)	SHALL	The flow rate SHALL be measured using an orifice weir with manometer, or equivalent method acceptable to the director.						
3745-9-09	B(5)(b)	SHALL	During a step-drawdown or constant rate pumping test, water level measurements SHALL be taken from the well starting with the static water level and continuing during drawdown to the nearest 0.1 foot, as measured from an identified datum.	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(5)(b)(i)	SHALL	Water level measurements SHALL be at the following time intervals:	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(5)(b)(ii)	SHALL	Recovery water level measurements SHALL be taken immediately after termination of the constant rate pumping test at time intervals of five minutes for the first hour	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(5)(b)(iii)	SHALL	For high use wells, all pumping tests SHALL include water level measurements from observation or surrounding wells. An observation well SHALL be selected or sited such that the water level measurements obtained before, during and after the pumping test will, upon analysis, provide information about the aquifer's response to pumping. The selection or siting process SHALL consider the distance between the observation well and the pumping well, the type of aquifer from which water is being withdrawn, the hydraulic gradient and other aquifer characteristics.						
3745-9-09	B(6)	SHALL	The well owner SHALL submit a report of the pumping tests with their results, interpretations and conclusions.	6111.42, 6109.04	State REQUIRED				
3745-9-09		SHALL	The pumping test report SHALL include the following:	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(6)(b)	SHALL	In addition to paragraph (B)(6)(a) of this rule, the report for a high use well pumping test report SHALL include the following:	6111.42, 6109.04	State REQUIRED				
3745-9-09	B(6)(b)(i)	SHALL	The map SHALL, at a minimum, include the names of the wells as used in the report and the distance between the pumping well and other wells used to observe drawdown						
3745-9-09	B(6)(c)	SHALL	In addition to paragraph (B)(6)(b) of this rule, when a high use community water system well is part of a multiple-well system the report SHALL include documentation that the well meets the demonstration REQUIREments in paragraphs (B)(2) and (B)(3) of this rule.	6111.42, 6109.04	State REQUIRED				
3745-9-09	C	SHALL	Samples SHALL be collected and analyzed from a public water system well for contaminants at the conclusion of the pumping test performed in accordance with paragraph (B) of this rule.	6111.42, 6109.04	State REQUIRED				
3745-9-09	C(1)	SHALL	A community water system well SHALL be sampled and analyzed for the contaminants that are listed in appendix A of this rule,	6111.42, 6109.04	State REQUIRED				
3745-9-09	C(3)	SHALL	A nontransient noncommunity water system well SHALL be sampled and analyzed for the contaminants that are listed in appendix B of this rule						
3745-9-09	C(2)	SHALL	A transient noncommunity water system well SHALL be sampled and analyzed for the contaminants that are listed in	6111.42, 6109.04	State REQUIRED				
3745-9-09	C(5)	SHALL	Samples that are collected from a public water system well in accordance to this rule 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.	6111.42, 6109.04	State REQUIRED				
3745-9-09	A(2)	REQUIRE	The director may REQUIRE submission of chemical development procedures with specifications	6111.42, 6109.04	State REQUIRED				
3745-9-09	b(6)(a)(ii)	REQUIRE	A data table for each well used to observe the drawdown and recovery water level measurements, as REQUIRED by paragraph (B)(5)(b)	6111.42, 6109.04	State REQUIRED				

3745-9-09	C(5)	REQUIRE	Samples that are collected from a public water system well in accordance to this rule 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.	6111.42, 6109.04	State REQUIRED				
3745-9-09	A	REQUIRE	An abandoned well SHALL be sealed in accordance with this rule and rule 3745-9-07 of the Administrative Code.	6111.42, 6109.04	State REQUIRED				
3745-9-09	A(1)	REQUIRE	The State of Ohio Regulations and Technical Guidance For Sealing Unused Water Wells and Boreholes (2015)" SHALL be used as a guide.	6111.42, 6109.04	State REQUIRED				
3745-9-09	B	REQUIRE	A test hole SHALL either be permanently sealed or converted into a well upon completion of testing.	6111.42, 6109.04	State REQUIRED				
3745-9-09	C	REQUIRE	An abandoned well SHALL be sealed in accordance with the following:	6111.42, 6109.04	State REQUIRED				
3745-9-10	A	SHALL	An abandoned well SHALL be sealed in accordance with this rule and rule 3745-9-07 of the Administrative Code.	6111.42, 6109.04	State REQUIRED				
3745-9-10	A(1)	SHALL	The State of Ohio Regulations and Technical Guidance For Sealing Unused Water Wells and Boreholes (2015)" SHALL be used as a guide.	6111.42, 6109.04	State REQUIRED				
3745-9-10	A(2)	SHALL	Plan approval is not REQUIRED in accordance with Chapter 3745-91 of the Administrative Code to seal an abandoned well, test hole or dry hole.	6111.42, 6109.04	State REQUIRED				
3745-9-10	B	SHALL	A test hole SHALL either be permanently sealed or converted into a well upon completion of testing.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C	SHALL	An abandoned well SHALL be sealed in accordance with the following:	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(1)	SHALL	All obstructions SHALL be removed from the abandoned well, including the pump and related equipment, drop pipe, pitless adapter, suction line, trash or other debris. Unless permanently attached, all liner pipe SHALL be removed from the well prior to placement of sealing materials.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(2)	SHALL	Casing SHALL be removed, ripped or perforated, or with prior consultation with the district office the casing may be left intact or in place.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(2)(b)	SHALL	Casing SHALL be removed to a depth of at least three feet below ground surface, except for a dug or bucket augered well covered by paragraph ((C)(13)(b)(ii) of this rule. The remaining borehole SHALL be filled with clean clay.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(2)(a)	SHALL	If possible, casing SHALL be removed by overdrilling when	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(3)	SHALL	Where evidence of microbiological growth is present, an abandoned well SHALL be disinfected by slowly wetting the casing or borehole with a solution of sodium hypochlorite or calcium hypochlorite. Disinfectant concentration in the water column SHALL be at least fifty milligrams per liter total chlorine	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(3)(a)	SHALL	Disinfectant SHALL have standard ANSI/NSF 60 certification.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(3)(b)	SHALL	Contact of disinfectant with bentonite SHALL be avoided.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(5)	SHALL	After the sealing material and grout have been placed into the abandoned well, the grout SHALL cure a minimum of twelve hours to assess whether any settling of the sealing material has occurred. If settling has occurred, then additional grout SHALL be placed into the remaining borehole.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(6)	SHALL	The finished grade SHALL ensure that surface water runoff drains away from the sealed abandoned well.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(9)	SHALL	An abandoned well that is constructed into or through a single aquifer that is not flowing at the surface SHALL be sealed in accordance with the following:	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(9)(b)	SHALL	An abandoned well SHALL be sealed by either pressure grouting, or pouring coarse grade bentonite	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(9)(c)	SHALL	If casing is removed, sealing material and grout SHALL be placed while casing is being removed from the borehole.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(10)	SHALL	An abandoned well that is constructed into or through multiple aquifers that is not flowing at the surface SHALL be sealed in accordance with the following REQUIREments:	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(10)(a)	SHALL	An abandoned well SHALL be sealed by pressure grouting.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(10)(c)	SHALL	The abandoned well SHALL then be sealed from the top of the uppermost aquifer or from twenty-five feet below ground surface, whichever is encountered first, to the surface	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(11)	SHALL	An abandoned well that is flowing SHALL be sealed in accordance with the following REQUIREments:	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(11)(a)	SHALL	An abandoned well SHALL be sealed by pressure grouting, or coarse grade or pelletized bentonite may be poured.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(11)(b)	SHALL	If casing extension is impractical because of the hydraulic head, one of the following SHALL be met:	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(11)(b)(i)	SHALL	An inflatable packer SHALL be installed at the top of the producing formation to stop or restrict the flow of water. The abandoned well SHALL be sealed by. The packer SHALL then be deflated and pressure grouting SHALL continue to the ground surface.	6111.42, 6109.04	State REQUIRED				

3745-9-10	C(11)(b)(ii)	SHALL	A shut-in device SHALL be installed at the top of the abandoned well to prevent flow. A conductor pipe SHALL be inserted through the shut-in device and the abandoned well SHALL be sealed by pressure grouting from the bottom of the hole to the ground surface.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(11)(b)(iii)	SHALL	Disinfected gravel SHALL be poured into the abandoned well to reduce the flow of water and the abandoned well SHALL be sealed by pressure grouting from the top of the aquifer, or from twenty-five feet below ground surface, whichever is encountered first.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(11)(b)(iv)	SHALL	If additives are used to increase the density of cement grout to control the flow of water, appropriate placement techniques SHALL be used to ensure that separation does not occur.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(12)	SHALL	An abandoned well drilled through fractured or cavernous formations or a mine shaft, SHALL be sealed in accordance with the following:	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(12)(a)	SHALL	The depth and thickness of the fractured, cavernous zone or mine shaft SHALL be determined, if possible, and the fractured, cavernous zone or mine shaft SHALL be sealed in accordance with the following:	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(12)(a)(i)	SHALL	Where the fractured, cavernous zone or mine shaft is greater than twenty-five feet from the ground surface, a packer, shale trap, or another similar device SHALL be installed at the top of the fractured, cavernous zone or mine shaft and the well SHALL then be sealed by pressure grouting up to the ground surface. In lieu of installing a packer, shale trap, or another similar device, the fractured, cavernous zone or mine shaft may be filled with clean and disinfected gravel, or cement grout, and the abandoned well SHALL then be sealed by pressure grouting up to the ground surface.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(12)(a)(ii)	SHALL	Where the fractured, cavernous zone or mine shaft is less than twenty-five feet from the ground surface, the abandoned well SHALL be filled with cement grout with additives that promote bridging across the fractured, cavernous zone or mine shaft.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(12)(b)	SHALL	The remainder of the abandoned well SHALL be sealed by pressure grouting	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)	SHALL	A dug or bucket augered abandoned well that is greater than twenty-four inches in diameter and less than twenty-five feet deep SHALL be sealed in accordance with the following:	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)(a)	SHALL	The static water level SHALL be measured and the abandoned well pumped dry, if possible.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)(b)(i)	SHALL	The abandoned well SHALL be filled with clean clay or cement grout to the elevation of the static water level.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)(b)(ii)	SHALL	The liner SHALL be removed to the depth of the static water level, and the borehole SHALL be excavated radially six inches beyond the original borehole.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)(b)(iii)	SHALL	A one foot layer of bentonite or cement grout SHALL be placed in the abandoned well at the elevation of the static water level. If the abandoned well is dry and bentonite is used, it SHALL be hydrated with five gallons of water per fifty pounds of bentonite.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)(b)(iv)	SHALL	The remaining borehole SHALL be filled with clean clay to ground surface.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)(c)(i)	SHALL	The abandoned well SHALL be filled with clean clay or cement grout to the elevation of the static water level.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)(c)(ii)	SHALL	At least the top three feet of casing, wall or liner material SHALL be removed and the borehole SHALL be excavated radially six inches beyond the original borehole.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)(c)(iii)	SHALL	A one foot layer of bentonite or cement grout SHALL be placed in the abandoned well at the elevation of the static water level. If the abandoned well is dry and bentonite is used, it SHALL be hydrated with five gallons of water per fifty pounds of bentonite.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)(c)(iv)	SHALL	A layer of clean clay or cement grout SHALL be added above the grout until the level in the abandoned well is three feet below ground surface.	6111.42, 6109.04	State REQUIRED				
3745-9-10	C(13)(c)(v)	SHALL	Another one foot thick layer of bentonite or cement grout SHALL be added at the level at which the casing, wall or liner material was removed. If the abandoned well is dry, the bentonite SHALL be hydrated with five gallons of water per fifty pounds of bentonite.	6111.42, 6109.04	State REQUIRED				
3745-9-10	D	SHALL	A copy of the well sealing report that is REQUIRED by section 1521.05 of the Revised Code SHALL be submitted to the district office within thirty days of sealing a public water system well. The abandoned well location SHALL be clearly noted on a site map with reference to highways, streets, corporate boundaries and local physical landmarks.	6111.42, 6109.04	State REQUIRED				
3745-9-10	A(2)	REQUIRE	Plan approval is not REQUIRED in accordance with Chapter 3745-91 of the Administrative Code to seal an abandoned well, test hole or dry hole.	6111.42, 6109.04	State REQUIRED				
3745-9-10	D	REQUIRE	A copy of the well sealing report that is REQUIRED by section 1521.05 of the Revised Code SHALL be submitted to the district office within thirty days of sealing a public water system well.	6111.42, 6109.04	State REQUIRED				

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-34-01	(A) 2	REQUIRE	REQUIREs class I haz wells to include description REQUIRED by ORC 3734.05	6111.043	State				
3745-34-01	M	REQUIRE	Manifest" means the shipping document originated and signed by the generator which contains the information REQUIRED by Chapter 3745-52 of the Administrative Code.	6111.043	Fed				
3745-34-03	(A)	SHALL	REQUIREs Ohio EPA to make records public unless the information is entitled for protection as trade secret	6111.043	Fed	Does not exceed. CFR 144.5. " If no claim is made at the time of submission, EPA may make the information available to the public without further notice'			
3745-34-03	(B)	Prohibit SHALL	REQUIREments on how information can be claimed as trade secret.	6111.043	Fed	Does not exceed. CFR 144.5. " Any such claim MUST be asserted at the time of submission in the manner prescribed on the application form or instructions or, in the case of other submissions, by stamping the words "confidential business information" on each page containing such information.'			
3745-34-06	n/a - L2	prohibited	Any underground injection, except as authorized by permit or rule issued under this chapter is prohibited		FED 144.11	Does not exceed 144.11			
3745-34-06	n/a - L2	REQUIRED	The construction of any well REQUIRED to have a permit is prohibited until the permit as been issued.		FED 144.11	Does not exceede 144.11			
3745-34-06	n/a - L3	prohibited	The construction of any well REQUIRED to have a permit is prohibited until the permit as been issued.		FED 144.11	Does not exceede 144.11			
3745-34-07	(A) - L1	SHALL	No owner SHALL construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into an underground source of drinking water, if the presence of that contaminant may cause an exceedance in the underground source of drinking water of any primary drinking water standard established under Chapter 3745-81 of the Administrative Code or may otherwise adversely affect the health of persons	6111.043	FED 144.12	Does not exceede 144.12 (a)			
3745-34-07	(A) - L7	SHALL	The applicant for a permit SHALL have the burden of showing that the REQUIREments of this paragraph are met	6111.043	FED 144.12	Does not exceede 144.12 (a)			
3745-34-07	(B) - L1	SHALL not	Injection into a Class V well SHALL not cause the migration of contaminants in a manner or at concentrations that cause an exceedance of water quality standards as established in Chapter 3745-01 of the Administrative Code.	6111.043	FED 144.12	3745-34-07(B) states that injection into class V well SHALL not cause the migration of contaminants in a manner or at concentrations that cause an exceedance of water quality standards, whereas the federal code states only that the director may take certain corrective actions if it is discovered that class V wells are causing violation of the primary DW regs			
3745-34-07	(C) - L3	SHALL	For class I wells, if any water quality monitoring of an underground source of drinking water indicates the movement of any contaminant into the underground source of drinking water, except as authorized under this chapter, the director SHALL prescribe such additional REQUIREments for construction, corrective action, operation, monitoring, or reporting (including closure of the injection well) as are necessary to prevent such movement.	6111.043	FED 144.12	Does not exceede 144.12 (b)			Director SHALL
3745-34-07	(C)- L6	SHALL	These additional REQUIREments SHALL be imposed by modifying the permit in accordance with rule 3745-34-23 of the Administrative Code or the permit may be terminated under rule 3745-34-24 of the Administrative Code if cause exists, or appropriate enforcement action may be taken if the permit has been violated.	6111.043	FED 144.12	Does not exceede 144.12 (b)			
3745-34-07	(D) - L4	SHALL	For class V wells, if at any time the director learns that a class V well may cause an exceedance of any primary drinking water standard established under Chapter 3745-81 of the Administrative Code or cause an adverse ecological impact per paragraph (B) of this rule, the director SHALL: (1) REQUIRE the injector to obtain an individual permit; (2) Order the injector to take such actions (including where REQUIRED closure of the injection well) as may be necessary to prevent or correct the violation; or (3) Take enforcement action.	6111.043	FED 144.12	Does not exceede 144.12 (C)			director SHALL
3745-34-08	(A) - L2	Prohibited	The construction, operation or maintenance of any class IV well, as classified under rule 3745-34-04 of the Administrative Code is prohibited, except as provided in paragraph C of this rule.	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(B) - L1	SHALL	The owner or operator of a class IV well SHALL comply with the closure and post-closure REQUIREments of paragraph (B) of rule 3745-34-09 of the Administrative Code	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(B) -L3	SHALL	All class IV wells SHALL be closed in compliance with rule 3745-34-07 of the Administrative Code	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(B) -L5	SHALL	Any soil, gravel, sludge, liquids, or other materials removed from or adjacent to the well being closed SHALL be disposed of or managed in accordance with all applicable federal, state or local regulations and REQUIREments.	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(B)(1) - L1	SHALL	The owner or operator of a class IV well SHALL notify the director of the intent to close the class IV well at least thirty days prior to commencing closure of the well.	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(B)(1) - L3	SHALL	The intent to close notification SHALL include the submission of a plan for closing the well per the REQUIREments of this paragraph.	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(B)(1) - L4	SHALL	The submitted plan SHALL be approved by the director prior to implementation and SHALL be followed during closure of the well	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(B)(1) - L5	SHALL	The submitted plan SHALL be approved by the director prior to implementation and SHALL be followed during closure of the well	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(B)(1) - L6	SHALL	This plan SHALL include the following: (a) A copy of the information REQUIRED in paragraph (L) of rule 3745-34-11 of the Administrative Code. (b) Procedures for the removal of any solids and sludge from the class IV well being closed. (c) Procedures for plugging the class IV well. This procedure SHALL be consistent with paragraph (A) of rule 3745-34-07 of the Administrative Code and all other applicable federal, state or local regulations and REQUIREments. (d) Any other information deemed necessary by the director.	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(B)(1)(a) - L1	REQUIRED	(a) A copy of the information REQUIRED in paragraph (L) of rule 3745-34-11 of the Administrative Code.	6111.043	FED 144.13				
3745-34-08	(B)(1)(C) - L1	SHALL	(c) Procedures for plugging the class IV well. This procedure SHALL be consistent with paragraph (A) of rule 3745-34-07 of the Administrative Code and all other applicable federal, state or local regulations and REQUIREments.	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(B)(2) - L1	SHALL	Upon completion of closure, the owner or operator SHALL certify to the director in a report per rule 3745-34-17 of the Administrative Code that the class IV well was closed in compliance with this rule.	6111.043	FED 144.13	Does not exceed 144.13			
3745-34-08	(C) - L 10	SHALL	The owner or operator SHALL submit to the director the information about the well REQUIRED within paragraph (L) of rule 3745-34-11 of the Administrative Code.	6111.043	FED 144.13	Does not exceed 144.13			

3745-34-09	(B) - L3	SHALL	In addition to complying with the applicable REQUIREments of this chapter, the owner or operator of each facility meeting the REQUIREments of paragraph (A) of this rule SHALL comply with the following: [1 - 11; notification, identification number, manifest system, manifest discrepancies, operating record, annua; report, unmanifested waste report, personnel training, financial responsibility, closure and post-closure]	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(1) - L1	SHALL	(1) Notification. The owner or operator SHALL comply with the notification REQUIREments of paragraph (C) of rule 3745-50-40 of the Administrative Code.	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(2) - L1	SHALL	(2) Identification number. The owner or operator SHALL comply with the identification number REQUIREments of rule 3745-54-11 of the Administrative Code.	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(3) - L1	SHALL	(3) Manifest system. The owner or operator SHALL comply with the applicable recordkeeping and reporting REQUIREments for manifested wastes in rule 3745-54-71 of the Administrative Code.	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(4) - L1	SHALL	(4) Manifest discrepancies. The owner or operator SHALL comply with discrepancy REQUIREments in rule 3745-54-72 of the Administrative Code.	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(5) - L1	SHALL	(5) Operating record. The owner or operator SHALL comply with record REQUIREments in paragraphs (A), (B)(1), and (B)(2) of rule 3745-54-73 of the Administrative Code	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(6) - L1	SHALL	(6) Annual report. The owner or operator SHALL comply with report REQUIREments in rule 3745-54-75 of the Administrative Code.	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(7) - L1	SHALL	(7) Unmanifested waste report. The owner or operator SHALL comply with report REQUIREments in rule 3745-54-76 of the Administrative Code.	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(8) - L1	SHALL	(8) Personnel training. The owner or operator SHALL comply with the applicable personnel training REQUIREments of rule 3745-54-16 of the Administrative Code.	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(9) - L1	SHALL	(9) Financial responsibility. The owner or operator SHALL comply with the financial responsibility REQUIREments of rules 3745-55-42 to 3745-55-51 or rules 3745-66-42 to 3745-66-48 of the Administrative Code.	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(10) - L1	SHALL	(10) Closure. The owner or operator SHALL comply with closure REQUIREments of rules 3745-34-36 and 3745-66-11 to 3745-66-15 or rules 3745-55-11 to 3745-55-15 of the Administrative Code.	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-09	(B)(11) - L1	SHALL	(11) Post-closure. The owner or operator SHALL comply with post-closure REQUIREments of rules 3745-34-36 and 3745-66-17 to 3745-66-20 or rules 3745-55-17 to 3745-55-20 of the Administrative Code.	6111.043	FED 144.14	Does not exceed 144.14			
3745-34-10	(C) - L1	SHALL	(C) When reducing REQUIREments under paragraph (A) or (B) of this rule, the director SHALL prepare a fact sheet under rule 3745-49-09 of the Administrative Code explaining the reasons for the action.	6111.043	FED 144.16				
3745-34-10	(C) - L2	SHALL	Such fact sheet SHALL include, but not be limited to, an explanation for the following criteria: (1) Impact on the zone of endangering influence. (2) Nature and volume of injection fluid. (3) Nature of native fluids or by-products of injection. (4) Potentially affected population. (5) Geology. (6) Hydrology. (7) History of the injection operation. (8) Completion and plugging records. (9) Abandonment procedures in effect at the time the well was abandoned. (10) Hydraulic connections with underground sources of drinking water. (11) Surface waste handling operations. (12) Mechanical integrity test results. (13) Demonstration that operating, monitoring, or reporting REQUIREments can be reduced with no adverse health or environmental impact.	6111.043	FED 144.16	FedEPA Fact Sheet SHALL include: A brief description of the type of facility or activity which is the subject of the draft permit; The type and quantity of wastes, fluids, or pollutants which are proposed to be or are being treated, stored, disposed of, injected, emitted, or discharged, For a PSD permit, the degree of increment consumption expected to result from operation of the facility or activity, A brief summary of the basis for the draft permit conditions including references to applicable statutory or regulatory provisions and appropriate supporting references to the administrative record REQUIRED by § 124.9 (for EPA-issued permits), Reasons why any requested variances or alternatives to REQUIRED standards do or do not appear justified; A description of the procedures for reaching a final decision on the draft permit including: The beginning and ending dates of the comment period under § 124.10 and the address where comments will be received; Procedures for requesting a hearing and the nature of that hearing; and Any other procedures by which the public may participate in the final decision. Name and telephone number of a person to contact for additional information. For NPDES permits, provisions satisfying the REQUIREments of § 124.56. Justification for waiver of any application REQUIREments under § 122.21(j) or (q) of this chapter. OEPA: Fact sheet SHALL include: Impact on the zone of endangering influence, (2) Nature and volume of injection fluid, Nature of native fluids or by-products of injection, Potentially affected population, Geology, Hydrology, History of the injection operation, Completion and plugging records, Abandonment procedures in effect at the time the well was abandoned, Hydraulic connections with underground sources of drinking water, Surface waste handling operations, Mechanical integrity test results, Demonstration that operating, monitoring, or reporting REQUIREments can be reduced with no adverse health or environmental impact.			
3745-34-11	A	SHALL	No person SHALL inject sanitary waste, sewage, industrial wastes or other wastes, into or above a USDW without first obtaining a UIC permit to drill and a permit to operate in accordance with rule 3745-34-12	6111.043	Fed	Does not exceed CFR 144.82. If the Director of the UIC Program in your State or EPA Region learns that your injection activity may endanger USDWs, he or she may REQUIRE you to close your well, REQUIRE you to get a permit, or REQUIRE other actions listed in § 144.12(c), (d), or (e).			
3745-34-11	B	SHALL	All existing large capacity cesspools SHALL be closed in accordance with paragraph (O) of this rule.	6111.043	Fed	Does not exceed CFR 144.88			
3745-34-11	F	SHALL	"No person SHALL inject treated water as part of an aquifer storage and recovery operation, into or above a USDW without first obtaining a UIC permit to drill and a permit to operate."	6111.043	Fed	Does not exceed CFR 144.82. If the Director of the UIC Program in your State or EPA Region learns that your injection activity may endanger USDWs, he or she may REQUIRE you to close your well, REQUIRE you to get a permit, or REQUIRE other actions listed in § 144.12(c), (d), or (e).			
3745-34-11	G	SHALL	"A permit to drill and a permit to operate SHALL be obtained in accordance with rule 3745-34-12 of the Administrative Code prior to construction of a class V well and prior to injection of fluids into a class V well for purposes of remediating ground water" or soil contamination.	6111.043	Fed	Does not exceed CFR 144.24			

3745-34-11	J	SHALL	All class V injection wells used to dispose of storm water runoff constructed after the effective date of this rule SHALL be constructed so as to minimize the injection of contaminants including, but not limited to, sediment, fecal matter, motor vehicle fluids, fertilizer, and pesticides.	6111.043	Fed	Exceeds CFR 144.24. Provision is more stringent REQUIRES class V injection wells used to dispose of storm water to be constructed to minimize the injection of fertilizer, fecal matter and other contaminants.			
3745-34-11	M	SHALL	The owner or operator of any class V well SHALL notify the director of the existence of any well under the owner's or operator's control meeting the definition of a class V well	6111.043	Fed	Does not exceed CFR 144.83			
3745-34-11	M	SHALL	The owner of a new class V well SHALL submit the notification within thirty days of installing the well.	6111.043	Fed	Stringent than CFR 144.83. Rule specifies a time frame.			
3745-34-11	M	SHALL	The owner SHALL submit the following information for each well under the owner's control.	6111.043	Fed	The federal counterpart has been incorporated in the proposed rule. Additional owner or operator, class V well REQUIREments is to submit inventory information (e.g., location of well given by latitude and longitude, and type of well) and well closure information in order to better evaluate the threat posed by the injection operation to any nearby drinking water supplies. (e.g., a plan for closing the well).			
3745-34-11	N(2)	SHALL, SHALL, R	If the director REQUIRES the collection and submittal of information in paragraph (N)(1) of this rule, the director SHALL request the information in writing and SHALL specify when the information is REQUIRED to be collected or submitted .	6111.043	Fed	Does not exceed.CFR 144.82. "If the Director of the UIC Program in your State or EPA Region learns that your injection activity may endanger USDWs, he or she may REQUIRE you to close your well, REQUIRE you to get a permit, or REQUIRE other actions listed in § 144.12(c),"			
3745-34-11	N(3)	SHALL, prohibit	The owner is prohibited from using the injection well if the information REQUIRED under paragraph (N)(1) of this rule is not submitted. The owner SHALL resume injection into the well upon receiving a permit under rule 3745-34-12 of the Administrative Code.	6111.043	Fed	Does not exceed.CFR 144.82. "If the Director of the UIC Program in your State or EPA Region learns that your injection activity may endanger USDWs, he or she may REQUIRE you to close your well, REQUIRE you to get a permit, or REQUIRE other actions listed in § 144.12(c),"			
3745-34-11	O	SHALL, SHALL	REQUIREments for Class V well closure. All class V wells undergoing closure SHALL be closed in compliance with rule 3745-34-07 of the Administrative Code. Materials removed from the well SHALL be disposed or managed in accordance with all applicable federal, state, or local regulations and REQUIREments.	6111.043	Fed	Does not exceed 40 CFR 144.89			
3745-34-11	O(1)	SHALL	SHALL notify the director of the intent to close the class V well	6111.043	Fed	Does not exceed 40 CFR 144.89			
3745-34-11	O(2)	SHALL, SHALL, R	SHALL submit a plan for closing well which SHALL include information REQUIRED by paragraph (M) of this rule, procedures for removal of solids, procedures for plugging the well .	6111.043	Fed	Does not exceed 40 CFR 144.89			
3745-34-11	O(3)	SHALL	SHALL certify to the director in a report that the class V well was closed in compliance with this rule.	6111.043	Fed	Does not exceed 40 CFR 144.89			
3745-34-11	D	REQUIRE	REQUIREments to inject sanitary waste or sewage into a class V well.	6111.043	Fed	Does not exceed 40 CFR 144.84			
3745-34-11	E (1)(b), E(2)(a)	REQUIRE	REQUIREments to inject wastewater resulting from the treatment of drinking water into a class V well into a class V well.	6111.043	Fed	Does not exceed 40 CFR 144.84			
3745-34-11	H(4)	REQUIRE	The injection of fluids into a class V well for purposes of remediating ground water or soil contamination is authorized without a permit.	6111.043	Fed	Does not exceed 40 CFR 144.84			
3745-34-11	I	REQUIRE	REQUIREments to inject fluids not specified in paragraphs (A) to (G) of this rule into class V wells authorized without a permit.	6111.043	Fed	Does not exceed 40 CFR 144.84			
3745-34-11	K(2)	REQUIRE	A class V well is not authorized to operate without a permit if director REQUIRES a permit in accordance with rule 3745-34-12.	6111.043	Fed				
3745-34-11	L(1)	REQUIRE	The owner or operator of any class V injection well may be REQUIRED to apply for individual or area permit if injection well is not in compliance with any REQUIREment of thischapter pertaining to class V wells or protection of the USDWs REQUIRES that the injection operation be regulated by REQUIREments.	6111.043	Fed	Does not exceed 40 CFR 144.82			
3745-34-11	N	REQUIRE	REQUIRE the owner of a class V well to collect and submit other information determined to be necessary to protect underground sources of drinking water.	6111.043	Fed	Does not exceed 40 CFR 144.82			
3745-34-11	c	Prohibit	Operation of and injection into a motor vehicle waste disposal well is prohibited.	6111.043	Fed	Does not exceed CFR 144.88			
3745-34-12	A(1)	Prohibit	Except for owners of class V wells authorized in accordance with the provisions of rule 3745-34-11 of the Administrative Code, all underground injection activities, including construction and operation of an injection well, are prohibited unless authorized by permit or rule.	6111.043	Fed	Does not exceed 40 CFR 144.31. Unless an underground injection well is authorized by rule under subpart C of this part, all injection activities including construction of an injection well are prohibited until the owner or operator is authorized by permit			
3745-34-12	A(4)	SHALL	Authorization for class V well injections for which permit applications have been submitted SHALL lapse for a particular class V well injection or project upon the effective date of the permit	6111.043	Fed	Does not exceed 144.31 and 144.24 "Authorization by rule for a well or project for which a permit application has been submitted terminates for the well or project upon the effective date of the permit." "Prohibition of injection. An owner or operator of a well which is authorized by rule pursuant to this section is prohibited from injecting into the well: (1) Upon the effective date of an applicable permit denial; "			
3745-34-12	(B)	SHALL	The owner of the proposed or existing underground injection well SHALL apply for the permit to drill and the permit to operate.	6111.043	Fed	Does not exceed 40 CFR 144.31. When a facility or activity is owned by one person but is operated by another person, it is the operator's duty to obtain a permit.			
3745-34-12	C	SHALL, SHALL	Any person who proposes an underground injection for which a permit will be REQUIRED SHALL apply for and receive a permit to drill prior to drilling and constructing the underground injection well. Any person who proposes an underground injection for which a permit will be REQUIRED SHALL apply for and receive a permit to operate before commencing injection into a well.	6111.043	Fed	Does not exceed 40 CFR 144.31. Any person who performs or proposes an underground injection for which a permit is or will be REQUIRED SHALL submit an application to the Director in accordance with the UIC program			
3745-34-12	(D)	SHALL SHALL	The director SHALL not issue a permit before receiving a complete application for a permit except for emergency permits. An application for a permit is complete when the director receives an application form and any supplemental information completed to the director's satisfaction. The completeness of any application for a permit SHALL be judged independently of the status of any other permit application or permit for the same facility or activity.	6111.043		Does not exceed 40 CFR 144.31. "The Director SHALL not issue a permit before receiving a complete application for a permit except for emergency permits. An application for a permit is complete when the Director receives an application form and any supplemental information which are completed to his or her satisfaction. The completeness of any application for a permit SHALL be judged independently of the status of any other permit application or permit for the same facility or activity."			
3745-34-12	(E), (E)(b)	SHALL, SHALL, R	Information included in the permit application fo activities conducted by the applicant which REQUIRE it to obtain permits under the following federal or state laws.	6111.043	Fed	Does not exceed 40 CF R 144.31. The activities conducted by the applicant which REQUIRE it to obtain permits under RCRA, UIC, the National Pollution Discharge Elimination system (NPDES) program under the Clean Water Act, or the Prevention of Significant Deterioration (PSD) program under the Clean Air Act.			
3745-34-12	(E)(13)	SHALL	REQUIREments to have a topographical map	6111.043	Fed	Exceeds 40 CFR 144.31. REQUIRES a topographical map prepared by a registered surveyor.			
3745-34-12	E(13)(J)	SHALL	plan	6111.043	Fed	Exceeds 40 CFR 144.31. Information that needs to be submitted in the well is currently or is proposed to be located within the excavations and workings of an active mine.			
3745-34-12	E(13)(K)	SHALL	REQUIREments to have a topographical map	6111.043	Fed	Exceeds 40 CFR 144.31. Information that needs to be submitted in the well is currently or is proposed to be located within the excavations and workings of an abandoned mine.			

3745-34-12	E(16)	REQUIRE	The director may REQUIRE a demonstration of knowledge and experience by the designer for projects containing a high degree of complexity, non-standard technology, unusual features, or deviations from standards and guidelines used by the agency	6111.043	Fed	Exceeds 40 CFR 144.31.			
3745-34-12	E(16)	SHALL	A plan for the testing, drilling, and construction of the proposed new injection well be included within all permit to drill applications.	6111.043	Fed	Exceeds 40 CFR 144.31.			
3745-34-12	F	SHALL	Applicants SHALL keep records of all data used to complete permit applications and any supplemental information submitted under this rule for a period of at least three years from the date the application is signed	6111.043	Fed	Does not exceed 40 CFR 144.31			
3745-34-12	G(1)	SHALL	Permit application fee	6111.043	State				
3745-34-12	G(2)	SHALL	Permit application fee	6111.043	State				
3745-34-12	A(2)	MUST	An underground injection control well owner MUST apply for a permit to drill or a permit to operate, as applicable.	6111.043	State				
3745-34-16	(A) - L2	SHALL	(A) In addition to the information REQUIRED in accordance with rule 3745-34-12 of the Administrative Code, the owner SHALL include the following in a permit application for a permit to drill a class V injection well: [(A)(1) and (A)(2) - maps and map cross sections]						
3745-34-16	(A)(1) - L2	SHALL	(1) A map showing the injection well(s) for which a permit is sought and the applicable area of review. The area of review SHALL be one-quarter mile beyond the injection well(s).						
3745-34-16	(A)(1) - L3	MUST	(1) A map showing the injection well(s) for which a permit is sought and the applicable area of review. The area of review SHALL be one-quarter mile beyond the injection well(s). Within the area of review, the map MUST show the number or name, and location of all of the following: (a) All producing and abandoned oil and natural gas wells for which public records exist; (b) Injection wells including large capacity septic systems and storm water drainage wells; (c) All active and abandoned water supply wells for which public records exist; (d) Surface bodies of water; (e) Springs; (f) Mines (surface and subsurface); (g) Quarries; (h) Other pertinent surface features including residences and roads; (i) Faults, if known or suspected; and (j) Storm and sanitary sewers.						
3745-34-16	(B) - L1	REQUIRED	(B) In addition to the information REQUIRED in accordance with rule 3745-34-12 of the Administrative Code and paragraphs (A)(1) to (A)(3) of this rule, an owner SHALL include in a permit application for a permit to operate a class V injection well: [(B)(1) through (B)(8)]						
3745-34-16	(B) - L3	SHALL	(B) In addition to the information REQUIRED in accordance with rule 3745-34-12 of the Administrative Code and paragraphs (A)(1) to (A)(3) of this rule, an owner SHALL include in a permit application for a permit to operate a class V injection well: [(B)(1) through (B)(8)]						
3745-34-17	(A) - L1	SHALL	(A) Applications. All permit applications SHALL be signed as follows: (1) For a corporation; by a principal executive officer of at least the level of vice president; (2) For a partnership or sole proprietorship; by a general partner or the proprietor, respectively; or (3) For a municipality, state, federal, or other public agency; by either a principal executive or ranking elected official.						
3745-34-17	(B) - L3	SHALL	(B) Reports. All reports REQUIRED by permits, other information requested by the director, and all permit applications submitted under rule 3745-34-12 of the Administrative Code SHALL be signed by a person described in paragraph (A) of this rule, or by a duly authorized representative of that person						
3745-34-17	(D) - L2	SHALL	(D) Certification. Any person signing a document under paragraph (A) or (B) of this rule SHALL make the following certification: "I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."						
3745-34-18	(B) - L1	SHALL	(B) Area permits SHALL specify: (1) The area within which underground injections are authorized, and (2) The REQUIREments for construction, monitoring, reporting, operation, and abandonment, for all wells authorized by the permit.						
3745-34-18	(C)(1) - L1	REQUIREs	(C) The area permit may authorize the permittee to construct, and operate, convert, or plug and abandon, wells in excess of the number specified in the current class V injection well area permit, provided: (1) The permittee notifies the director at such time as the permit REQUIREs						
3745-34-19	(B)(1) - L1	SHALL	(B) REQUIREments for issuance. (1) Any temporary permit under paragraph (A) of this rule SHALL be for no longer term than REQUIRED to prevent the hazard.						
3745-34-19	(B)(3) - L2	MUST	REQUIREments for issuance...(3) The temporary permit under this rule may be either oral or written. If oral, it MUST be followed within five calendar days by a written temporary emergency permit.						
3745-34-19	(B)(4) - L1	SHALL	REQUIREments for issuance...(4) The director SHALL condition the temporary permit in any manner he or she determines is necessary to ensure that the injection will not result in the movement of fluids into an underground source of drinking water						
3745-34-20	n/a	none							
3745-34-21	D(1)	SHALL	Permits to drill for class I and class V wells SHALL terminate within eighteen months of the effective date of the permit to drill if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification.	6111.043	Fed REQUIRED	Exceeds 40 CFR 144.52(1) by including a timeframe on when the PTD terminates.			x
3745-34-21	D(2)	SHALL	No appeal taken from denial of extension of an expiration date SHALL prevent termination of a permit during the period between denial of extension and final disposition of the appeal.	6111.043	legal ??				x
3745-34-23	Intro paragraph	SHALL	If cause does not exist under this rule or rule 3745-34-25 of the Administrative Code, the director SHALL not modify or revoke and reissue the permit.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 144.39			x

3745-34-23	A(2)	SHALL	For underground injection control area permits (rule 3745-34-18 of the Administrative Code), this cause SHALL include any information indicating that cumulative effects on the environment are unacceptable.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 144.39	x	x	
3745-34-23	Intro paragraph	REQUIRE	When the director receives any information (for example, inspects the facility, receives information pertinent to the permit submitted by the permittee as REQUIRED in the permit [see rule 3745-34-26 of the Administrative Code], receives a request for modification or revocation and reissuance or conducts a review of the permit file), the director may determine whether or not one or more of the causes listed in paragraphs (A) and (B) of this rule for modification, revocation and reissuance, or both exist.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 144.39	x	x	
3745-34-23	Intro paragraph	MUST	If a permit modification satisfies the criteria in rule 3745-34-25 of the Administrative Code for minor modifications, the permit may be modified without a draft permit or public review. Otherwise, a draft permit MUST be prepared and other procedures in Chapter 3745-49 of the Administrative Code MUST be followed.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 144.39	x	x	x
3745-34-26	(C) - L1	SHALL	Need to halt or reduce activity not a defense. It SHALL not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
	(D) - L1	SHALL	Duty to mitigate. The permittee SHALL take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with the permit.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(E) - L1	SHALL	Proper operation and maintenance. The permittee SHALL at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of the permit. "Proper operation and maintenance" includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision REQUIRES the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(H) - L1	SHALL	Duty to provide information. The permittee SHALL furnish to the director, within a time specified, any information which the director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. The permittee SHALL also furnish to the director, upon request, copies of records REQUIRED to be kept by the permittee.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(H) - L5	SHALL	Duty to provide information. The permittee SHALL furnish to the director, within a time specified, any information which the director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. The permittee SHALL also furnish to the director, upon request, copies of records REQUIRED to be kept by the permittee.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(I) - L1	SHALL	Inspection and entry. The permittee SHALL allow the director, or an authorized representative, upon the presentation of credentials and other documents as may be REQUIRED by law, to:	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(J)(1) - L1	SHALL	Samples and measurements taken for the purpose of monitoring SHALL be representative of the monitored activity.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(J)(2) - L1	SHALL	The permittee SHALL retain records of all monitoring information, including the following:	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(J)(3) - L1	SHALL	Records of monitoring information SHALL include:	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(K) - L1	SHALL	Signatory REQUIREment. All applications, reports, or information submitted to the director SHALL be signed and certified (see rule 3745-34-17 of the Administrative Code).	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(L)(1) - L1	SHALL	Planned changes. The permittee SHALL give written notice to the director as soon as possible of any planned physical alterations or additions to the permitted facility.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(L)(2) - L1	SHALL	Anticipated noncompliance. The permittee SHALL give advance written notice to the director as soon as possible of any planned changes in the permitted facility or activity which may result in noncompliance with permit REQUIREments.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(L)(4) - L1	SHALL	Monitoring reports. Monitoring results SHALL be reported in writing at the intervals specified elsewhere in the permit.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(L)(5) - L4	SHALL	Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final REQUIREments contained in any compliance schedule of this permit SHALL be submitted in writing no later than thirty days following each schedule date.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(L)(6) - L1	SHALL	Twenty-four hour reporting. The permittee SHALL report any noncompliance which may endanger health or the environment, including:	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			

3745-34-26	(L)(6)(b) - L4	SHALL	Any information SHALL be provided orally within twenty-four hours from the time the permittee becomes aware of the circumstances. A written submission SHALL also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission SHALL contain a description of the noncompliance including exact dates and times, and if the noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(L)(6)(b) - L6	SHALL	Any information SHALL be provided orally within twenty-four hours from the time the permittee becomes aware of the circumstances. A written submission SHALL also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission SHALL contain a description of the noncompliance including exact dates and times, and if the noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(L)(6)(b) - L8	SHALL	Any information SHALL be provided orally within twenty-four hours from the time the permittee becomes aware of the circumstances. A written submission SHALL also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission SHALL contain a description of the noncompliance including exact dates and times, and if the noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(L)(7) - L1	SHALL		6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(L)(7) - L4	SHALL	Other noncompliance. The permittee SHALL report in writing all instances of noncompliance not reported under paragraphs (L)(4), (L)(5), and (L)(6) of this rule, at the time monitoring reports are submitted. The reports SHALL contain the information listed in paragraph (L)(6) of this rule.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(L)(8) - L4	SHALL	Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the director, it SHALL promptly submit such facts or information in writing.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(M)(2)(b) - L5	SHALL	The permittee has not received notice from the director of his or her intent to inspect or otherwise review the new injection well within thirty days of the date of notice of completion of construction, in which case prior inspection or review is waived and the permittee may commence injection. The director SHALL include in his notice a reasonable time period in which he SHALL inspect the well.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(M)(2)(b) - L6	SHALL	The permittee has not received notice from the director of his or her intent to inspect or otherwise review the new injection well within thirty days of the date of notice of completion of construction, in which case prior inspection or review is waived and the permittee may commence injection. The director SHALL include in his notice a reasonable time period in which he SHALL inspect the well.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-26	(N) - L1	SHALL	The permittee SHALL notify the director at such times as the permit REQUIRES before conversion or abandonment of the well or in the case of area permits before closure of the project.	6111.043	FED	Does not exceed 144.51 (a to n) (conditions for all permits)			
3745-34-27	(A) - L1	SHALL	Drilling permits SHALL include conditions meeting the following REQUIREments	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(A)(1) - L2	SHALL	Construction REQUIREments as set forth in this chapter. Existing wells SHALL achieve compliance with such REQUIREments according to a compliance schedule established as a permit condition.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(A)(1) - L4	SHALL	The owner or operator of a proposed new injection well SHALL submit plans for testing, drilling, and construction as part of the permit application. No construction may commence until a permit has been issued containing construction REQUIREments (see rule 3745-34-06 of the Administrative Code).	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(A)(1) - L8	SHALL	New wells SHALL be in compliance with paragraph (A) of this rule prior to commencing injection operations. Changes in construction plans during construction may be approved by the director as minor modifications (rule 3745-34-25 of the Administrative Code). No such changes may be physically incorporated into construction of the well prior to approval of the modification by the director.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(A)(2) - L1	SHALL	Monitoring and reporting REQUIREments as set forth in this chapter SHALL be complied with by the permittee.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			

3745-34-27	(A)(3) - L1	SHALL	Additional conditions. The director SHALL impose on a case-by-case basis such additional conditions as are necessary to prevent the migration of fluids into USDW	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B) - L1	SHALL	Injection permits SHALL include conditions meeting the following REQUIREments:	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B)(2) - L1	SHALL	Operation REQUIREments as set forth in this chapter. The permit SHALL establish any maximum injection volumes and/or pressures necessary to assure that fractures are not initiated in the injection zone or the confining zone, that injected fluids do not migrate into any underground source of drinking water, that formation fluids are not displaced into any underground source of drinking water, and to assure compliance with the operating REQUIREments of this chapter	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B)(4) - L2	SHALL	Monitoring and reporting REQUIREments as set forth in this chapter. The permittee SHALL be REQUIRED to identify types of tests and methods used to generate the monitoring data.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B)(5) - L1	SHALL	Plugging and abandonment. Any class I permit SHALL include, and any class V permit may include, conditions to ensure that plugging and abandonment of the well will not allow the movement of fluids either into an underground source of drinking water or from one underground source of drinking water to another.	6111.043	FED	Does not exceed 144.51(o) - conditions for all permits			
3745-34-27	(B)(5) - L5	SHALL	Applicants for a UIC permit SHALL submit a plan for plugging and abandonment	6111.043	FED	Does not exceed 144.51(o) - conditions for all permits			
3745-34-27	(B)(5) - L7	SHALL	For class I hazardous injection wells, such plan SHALL be the same as that REQUIRED under rule 3745-34-36 of the Administrative Code.	6111.043	FED	Does not exceed 144.51(o) - conditions for all permits			
3745-34-27	(B)(5) - L9	SHALL	Where the plan meets the REQUIREments of this paragraph, the director SHALL incorporate it into the permit as a condition.	6111.043	FED	Does not exceed 144.51(o) - conditions for all permits			
3745-34-27	(B)(5) - L11	SHALL	Where the director's review of an application indicates that the permittee's plan is inadequate, the director SHALL REQUIRE the applicant to revise the plan, prescribe conditions meeting the REQUIREments of this paragraph, or deny the application.	6111.043	FED	Does not exceed 144.51(o) - conditions for all permits			
3745-34-27	(B)(6) - L2	SHALL	After a cessation of operations of two years, the owner or operator SHALL plug and abandon the well in accordance with the plugging and abandonment plan.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B)(6) - L4	SHALL	Such a request SHALL include a description of actions and procedures the owner or operator will take to ensure that the well will not endanger USDWs during the period of temporary abandonment	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B)(6) - L7	SHALL	These actions and procedures SHALL include compliance with all technical REQUIREments applicable to active injection wells.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B)(7) - L4	MUST	The permittee MUST show evidence of financial responsibility to the director by the submission of surety bond, or other materials acceptable to the director.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B)(7) - L6	MUST	For class I hazardous injection wells, financial responsibility MUST be demonstrated as REQUIRED under paragraph (d) of rule 3745- 34-36 of the Administrative Code.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B)(8) - L2	SHALL	Mechanical integrity. A permit for any call I well or injection project which lacks mechanical integrity SHALL include, and for any class V well may include, a condition prohibiting injection operations until the permittee shows to the satisfaction of the director under rule 3745-34-34 of the Administrative Code that the well has mechanical integrity.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B)(8) - L3	prohibiting	A permit for any call I well or injection project which lacks mechanical integrity SHALL include, and for any class V well may include, a condition prohibiting injection operations until the permittee shows to the satisfaction of the director under rule 3745-34-34 of the Administrative Code that the well has mechanical integrity.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(B)(9) - L1	SHALL	Additional conditions. The director SHALL impose on a case-by-case basis such additional conditions as are necessary to prevent the migration of fluids into underground sources of drinking water.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(C) - L2	SHALL	In addition to conditions REQUIRED in rule 3745-34-26 of the Administrative Code, the director SHALL establish conditions, as REQUIRED on a case-by-case basis under rule	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(C)(1) - L1	REQUIRED	In addition to conditions REQUIRED in all permits, the director SHALL establish conditions in permits as REQUIRED on a case-by-case basis, to provide for and assure compliance with all applicable REQUIREments of sections 6111.043 and 6111.044 of the Revised Code and this chapter.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(C)(1) - L1	SHALL	In addition to conditions REQUIRED in all permits, the director SHALL establish conditions in permits as REQUIRED on a case-by-case basis, to provide for and assure compliance with all applicable REQUIREments of sections 6111.043 and 6111.044 of the Revised Code and this chapter.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			

3745-34-27	(C)(1) - L2	REQUIRED	In addition to conditions REQUIRED in all permits, the director SHALL establish conditions in permits as REQUIRED on a case-by-case basis, to provide for and assure compliance with all applicable REQUIREments of sections 6111.043 and 6111.044 of the Revised Code and this chapter.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(C)(3) - L3	SHALL	New or reissued permits, and to the extent allowed under rule 3745-34-23 of the Administrative Code, modified or revoked and reissued permits, SHALL incorporate each of the applicable REQUIREments referenced in rule 3745-34-27 of the Administrative Code.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(C)(4) - L2	SHALL	Permits for owners or operators of hazardous waste injection wells SHALL include conditions meeting the REQUIREments of rule 3745-34-09 and rules 3745-34-50 to 3745-34-62 of the Administrative Code.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(D) - L1	SHALL	Incorporation. All permit conditions SHALL be incorporated either expressly or by reference.	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-27	(D) - L3	MUST	If incorporated by reference, a specific citation to the applicable regulations or REQUIREments MUST be given in the permit	6111.043	FED	Does not exceed 144.52 (establish permit conditions)			
3745-34-32	Intro paragraph	SHALL	The area of review of each injection well or each field or project SHALL be determined according to either paragraph (A) or (B) of this rule.	6111.043	Fed REQUIRED	Does not exceed CFR 146.6	x		x
3745-34-32	B(2)	SHALL	In determining the fixed radius, the following factors SHALL be taken into consideration: chemistry of injected and formation fluids; hydrogeology; population and ground water used and dependence; and historical practices in the area.	6111.043	Fed REQUIRED	Does not exceed CFR 146.6	x		x
3745-34-33	Intro paragraph	SHALL	In determining the adequacy of corrective action proposed by the applicant under rule 3745-34-30 of the Administrative Code and in determining the additional steps needed to prevent fluid movement into underground sources of drinking water, the following criteria and factors SHALL be considered by the director:	6111.043	Fed REQUIRED	Does not exceed 144.55(a)	x		
3745-34-34	B	SHALL	One of the following methods SHALL be used to evaluate the absence of leaks under paragraph (A)(1) of this rule:	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.8	x		X
3745-34-34	C	SHALL	The results of a temperature or noise log SHALL be used to determine the absence of significant fluid movement under paragraph (A)(2) of this rule.	6111.043			x		
3745-34-34	D	SHALL	To obtain approval, the director SHALL submit a written request to the administrator of USEPA, which SHALL set forth the proposed test and all technical data supporting its use. Any alternate method approved by the director SHALL be published pursuant to the REQUIREments of Chapter 3745-49 of the Administrative Code.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.8©	x		X
3745-34-34	E	SHALL	In conducting and evaluating the tests enumerated in this rule or others to be allowed by the director, the owner or operator and the director SHALL apply methods and standards generally accepted in the industry. When the owner or operator reports the results of mechanical integrity tests to the director, a description of any test and any method used SHALL be included. In making an evaluation, the director SHALL review monitoring and other test data submitted since the previous evaluation	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146(E).	x		X
3745-34-34	F	SHALL	The director or the director's authorized representative SHALL be present during the test for demonstration of mechanical integrity, unless the director or the director's authorized representative waives this REQUIREment before the test occurs.	6111.043		Exceeds 40 CFR 146.8. This rule REQUIRES an Ohio EPA representative be present for a demonstration of mechanical integrity unless the representative chooses not to be present. The REQUIREment is in our rule because the regulated community prefers Ohio EPA be present onsite during these demonstrations to verify that the tests are run correctly and to provide immediate authorization for any necessary changes to the approved plan.	x		
3745-34-34	H	SHALL	No injection without the director's approval SHALL occur into a class I well that cannot maintain technical integrity as defined by paragraph (A) of this rule unless the injection of fluids is intended to prevent the flow of waste up the well to the surface. In the event that a loss of mechanical integrity of a class I well is discovered, the owner or operator SHALL follow the REQUIREments of paragraph (H) of rule 3745-34-56 of the Administrative Code.	6111.043		Exceeds 40 CFR 146.8. The rule also REQUIRES that injection cease if mechanical integrity is not established or lost. If mechanical integrity is lost, the owner or operator MUST follow operating REQUIREments established in rule 3745-34-56 of the Administrative Code	x		
3745-34-34	G	REQUIRE	The director may REQUIRE additional or alternative tests if the results presented by the owner or operator under paragraph (E) of this rule are not satisfactory to the director to demonstrate that there is no movement of fluid into or between USDWs resulting from the injection activity.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.8 (f)	x		
3745-34-35	Intro paragraph	SHALL	In determining priorities for setting times for owners to submit applications for authorization to operate under the procedures of paragraphs (A) and (C) of rule 3745-34-12, and paragraphs (B) and (C) of rule 3745-34-13 of the Administrative Code, the director SHALL base these priorities upon consideration of the following factors:	6111.043	Fed REQUIRED	Spread over multiple rule in 40 CFR 144 and 146	x		x
3745-34-35	F	REQUIRE	Coordination with the issuance of permits REQUIRED by other permit programs;	6111.043	Fed REQUIRED	Spread over multiple rule in 40 CFR 144 and 146	x		x
3745-34-37	(A) - L1	SHALL	All class I wells SHALL be sited in such a fashion that they inject into a formation which is beneath the lowermost formation containing, within one-quarter mile of the well bore, an underground source of drinking water.	6111.043	FED	146.12(a) - construction REQUIREments			
3745-34-37	(B) - L1	SHALL	All class I wells SHALL be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water	6111.043	FED	146.12(b) construction REQUIREments -----****MOVED TO 14*****			
3745-34-37	(B) - L3	SHALL	The casing and cement used in the construction of each newly drilled well SHALL be designed for the life expectancy of the well.	6111.043	FED	146.12(b) construction REQUIREments			
3745-34-37	(B) - L5	SHALL	In determining and specifying casing and cementing REQUIREments, the following factors SHALL be considered	6111.043	FED	146.12(b) construction REQUIREments			
3745-34-37	(C) - L2	SHALL	All class I injection wells, except those municipal wells injecting non-corrosive wastes, SHALL inject fluids through tubing with a packer set immediately above the injection zone, or tubing with an approved fluid seal as an alternative.	6111.043	FED	146.12(c) [construction REQUIREments]			
3745-34-37	(C) - L4	SHALL	The tubing, packer, and fluid seal SHALL be designed for the expected service.	6111.043	FED	146.12(c) [construction REQUIREments]			
3745-34-37	(C)(1) - L2	SHALL	To obtain approval, the operator SHALL submit a written request to the director, which SHALL set forth the proposed alternative and all technical data supporting its use.	6111.043	FED	146.12(c) [construction REQUIREments]			

3745-34-37	(C)(1) - L3	SHALL	To obtain approval, the operator SHALL submit a written request to the director, which SHALL set forth the proposed alternative and all technical data supporting its use.	6111.043	FED	146.12(c)[construction REQUIREments]			
3745-34-37	(C)(1) - L4	SHALL	The director SHALL approve the request if the alternative method will reliably provide a comparable level of protection to underground sources of drinking water.	6111.043	FED	146.12(c) [construction REQUIREments]			
3745-34-37	(C)(2) - L2	SHALL	In determining and specifying REQUIREments for tubing, packer, or alternatives, the following factors SHALL be considered:	6111.043	FED	146.12(c) [construction REQUIREments]			
3745-34-37	(C)(3) - L1	SHALL	All areas of a well that may come into contact with corrosive wastes SHALL be constructed of corrosion-resistant materials.	6111.043	FED	146.12 (c) [construction REQUIREments]			
3745-34-37	(D) - L 1	SHALL	Appropriate logs and other tests SHALL be conducted during the drilling and construction of new class I wells.	6111.043	FED	146.12 (d) [construction REQUIREments]			
3745-34-37	(D) - L 3	SHALL	A descriptive report interpreting the results of such logs and tests SHALL be prepared by a knowledgeable log analyst and submitted to the director.	6111.043	FED	146.12 (d) [construction REQUIREments]			
3745-34-37	(D) - L 4	SHALL	At a minimum, such logs and tests SHALL include:	6111.043	FED	146.12 (d) [construction REQUIREments]			
3745-34-37	(D)(1) - L2	SHALL	Such checks SHALL be at sufficiently frequent intervals to assure that vertical avenues for fluid migration in the form of diverging holes are not created during drilling.	6111.043	FED	146.12 (d) [construction REQUIREments]			
3745-34-37	(D)(2) - L5	REQUIRED	In determining which logs and tests SHALL be REQUIRED, the following logs SHALL be considered for use in the following situations:	6111.043	FED	146.12 (d) [construction REQUIREments]			
3745-34-37	(D)(2) - L5	SHALL	In determining which logs and tests SHALL be REQUIRED, the following logs SHALL be considered for use in the following situations:	6111.043	FED	146.12 (d) [construction REQUIREments]			
3745-34-37	(E) - L1	SHALL	At a minimum, the following information concerning the injection formation SHALL be determined or calculated for new class I wells:	6111.043	FED	146.12 (e) [construction REQUIREments]			
3745-34-38	(A) - L1	SHALL	Operating REQUIREments. Operating REQUIREments SHALL, at a minimum, include:	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-38	(A)(1) - L1	SHALL	Except during stimulation, injection pressure at the wellhead SHALL not exceed a maximum which SHALL be calculated so as to assure that the pressure in the injection zone during injection does not initiate new fractures or propagate existing fractures in the injection zone	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-38	(A)(1) - L2	SHALL	Except during stimulation, injection pressure at the wellhead SHALL not exceed a maximum which SHALL be calculated so as to assure that the pressure in the injection zone during injection does not initiate new fractures or propagate existing fractures in the injection zone	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-38	(A)(1) - L5	SHALL	In no case SHALL injection pressure initiate fractures in the confining zone or cause the movement of injection or formation fluids into an underground source of drinking water.	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-38	(A)(2) - L2	prohibited	Injection between the outermost casing protecting underground sources of drinking water and the well bore is prohibited.	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-38	(A)(3) - L3	SHALL	Unless an alternative to a packer has been approved under paragraph (c) of rule 3745-34-37 of the Administrative Code, the annulus between the tubing and the long string of casings SHALL be filled with a fluid approved by the director, and a pressure, also approved by the director, SHALL be maintained on the annulus.	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-38	(A)(3) - L5	SHALL	Unless an alternative to a packer has been approved under paragraph (c) of rule 3745-34-37 of the Administrative Code, the annulus between the tubing and the long string of casings SHALL be filled with a fluid approved by the director, and a pressure, also approved by the director, SHALL be maintained on the annulus.	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-38	(B) - L1	SHALL	Monitoring REQUIREments. Monitoring REQUIREments SHALL, at a minimum, include:	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-38	(C) - L1	REQUIRE	The director may REQUIRE the owner or operator to submit, for approval, a monitoring program plan which meets the REQUIREments set forth in rule 3745-34-57 of the Administrative Code	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-38	(D) - L1	SHALL	Reporting REQUIREments. Reporting REQUIREments SHALL, at a minimum, include:	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-38	(D)(2)(b) - L2	REQUIRED	Any other test of the injection well conducted by the permittee if REQUIRED by the director; and	6111.043	FED	146.13(a) to (c) [operating, monitoring and reporting]			
3745-34-39	L1	MUST	This rule sets forth the information which MUST be considered by the director in authorizing class I wells	6111.043	FED	146.14 [information considered by Director] *****Moved provisions to permitting application rule. Redundant with parts of other rules (34-12, 34-13, 34-14, 34-15)*****			X
3745-34-39	L4	SHALL	For a newly drilled class I well, the director SHALL REQUIRE the submission of all the information listed below	6111.043	FED	146.14 [information considered by Director]			X
3745-34-39	(A) - L2	SHALL	Prior to the issuance of a permit for an existing class I well to operate or the construction or conversion of a new class I well, the director SHALL consider the following:	6111.043	FED	146.14 [information considered by Director]			X
3745-34-39	(A)(3) - L2	SHALL	Such data SHALL include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the director may REQUIRE	6111.043	FED	146.14 [information considered by Director]			
3745-34-39	(A)(3) - L4	REQUIRE	Such data SHALL include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the director may REQUIRE	6111.043	FED	146.14 [information considered by Director]			

3745-34-39	(B) - L1	SHALL	Prior to granting approval for the operation of a class I well, the director SHALL consider the following information:	6111.043	FED	146.14 [information considered by Director]				X
3745-34-39	(C) - L2	SHALL	Prior to granting approval for the plugging and abandonment of a class I well, the director SHALL consider the following information:	6111.043	FED	146.14 [information considered by Director]				X
3745-34-40	(A) - L1	SHALL	A seismic reflection data survey SHALL be conducted at each injection site where a class I injection well is located or is proposed to be located in order to determine the presence or absence of such geologic faults or fractures as may be identified by seismic reflection survey data within or near the area around the well where the formation pressures may be increased due to the operation of the well.	6111.043	State Req	No federal Equivalent				
3745-34-40	(B) - L1	REQUIRED	A new seismic reflection data survey is not REQUIRED, if a seismic reflection data survey was conducted at an injection site in accordance with a work plan approved by the director or a seismic reflection data survey was conducted at an injection site and the results were approved in writing by the director.	6111.043	State Req	No federal Equivalent				
3745-34-40	(C) - L1	SHALL	The owner of a class I injection well SHALL re-evaluate the seismic reflection data collected per paragraph (A) or (B) of this rule, if there is a change in the area of review of an injection well or if the owner or operator is proposing a new well to be located at the injection site.	6111.043	State Req	No federal Equivalent				
3745-34-40	(C) - L4	REQUIRE	The director may REQUIRE the owner or operator to submit additional seismic reflection data as may be necessary or appropriate, if the director determines that the existing data are inadequate to determine the presence or absence of geologic faults or fractures as may be identified by seismic reflection survey data within the altered area of review or within the area of pressure buildup of the new well.	6111.043	State Req	No federal Equivalent				
3745-34-40	(D) - L4	SHALL	The activities and methods described in the plan SHALL include those used in data acquisition, processing, interpreting and reporting the seismic reflection data.	6111.043	State Req	No federal Equivalent				
3745-34-40	(D) - L5	SHALL	This work plan SHALL, at a minimum, include the following:	6111.043	State Req	No federal Equivalent				
3745-34-40	(D)(2) - L2	SHALL	The survey SHALL include adequate horizontal data coverage which will image and properly identify any known or unknown geologic features that may affect the site, both during operation and post-closure periods of the wells.	6111.043	State Req	No federal Equivalent				
3745-34-40	(E) - L1	SHALL	The owner or operator SHALL conduct the seismic reflection survey per the plan approved by the director under paragraph (D) of this rule, unless during the conducting of the seismic reflection survey unanticipated conditions cause a reasonable deviation from the approved plan.	6111.043	State Req	No federal Equivalent				
3745-34-40	(E) - L4	SHALL	Any deviation from the plan SHALL be reported to Ohio EPA within one business day of the deviation taking place	6111.043	State Req	No federal Equivalent				
3745-34-40	(E) - L5	SHALL	Any deviations from the approved plan SHALL continue to allow the resulting seismic reflection survey to meet the REQUIREments of paragraph (A) of this rule.	6111.043	State Req	No federal Equivalent				
3745-34-40	(E) - L6	SHALL	All deviations from the approved plan SHALL be listed within the report REQUIRED by paragraph (F) of this rule with an explanation as to why the deviation was necessary and how the deviation continued to allow the seismic reflection survey to continue to meet the REQUIREments of paragraph (A) of this rule.	6111.043	State Req	No federal Equivalent				
3745-34-40	(E) - L7	REQUIRED	All deviations from the approved plan SHALL be listed within the report REQUIRED by paragraph (F) of this rule with an explanation as to why the deviation was necessary and how the deviation continued to allow the seismic reflection survey to continue to meet the REQUIREments of paragraph (A) of this rule.	6111.043	State Req	No federal Equivalent				
3745-34-40	(F) - L1	SHALL	The owner SHALL submit to the director four copies of the final report and digital data with all appropriate header information detailing the results of the seismic reflection data survey REQUIRED by paragraph (A) of this rule.	6111.043	State Req	No federal Equivalent				
3745-34-40	(F) - L3	SHALL	This report SHALL be submitted with the permit to drill application REQUIRED by rules 3745-34-12 and 3745-34-13 of the Administrative Code.	6111.043	State Req	No federal Equivalent				
3745-34-40	(F) - L5	SHALL	The report SHALL be certified in accordance with rule 3745-34-17 of the Administrative Code.	6111.043	State Req	No federal Equivalent				
3745-34-40	(F) - L6	SHALL	The report SHALL describe, where present, the faults and fractures within or near the area around the well where the formation pressures may be increased due to the operation of the well.	6111.043	State Req	No federal Equivalent				
3745-34-40	(F) - L10	SHALL	Where there are no faults and fractures present within or near the area around the well where the formation pressures may be increased due to the operation of the well, the report SHALL state this.	6111.043	State Req	No federal Equivalent				
3745-34-40	(F) - L10	SHALL	The report SHALL, at a minimum, include the following:	6111.043	State Req	No federal Equivalent				
3745-34-40	(F)(1) - L1	SHALL	The field digital data SHALL be submitted in a format approved by the director within the work plan REQUIRED.	6111.043	State Req	No federal Equivalent				
3745-34-40	(F)(5) - L2	SHALL	The stratigraphic nomenclature SHALL be that currently in use by the Ohio department of natural resources, division of geologic survey.	6111.043	State Req	No federal Equivalent				
3745-34-51	A	SHALL	All class I hazardous waste injection wells SHALL be sited such that they inject into a formation that is beneath the lowermost formation containing, within one quarter mile of the well bore, an underground source of drinking water.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.62 (a)	x		x	
3745-34-51	B	SHALL	Upon a finding by the director, the siting of class I hazardous waste injection wells SHALL be limited to areas that are geologically suitable. The director SHALL determine geologic suitability based upon information submitted by the applicant including:	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.62 (b)	x		x	
3745-34-51	C	SHALL	Class I hazardous waste injection wells SHALL be sited such that:	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.62 (c)	x		x	
3745-34-51	D	SHALL	The owner or operator SHALL submit information to the director adequate to demonstrate that:	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.62 (d)	x		x	
3745-34-54	A	SHALL	All existing and new class I hazardous waste injection wells SHALL be constructed and completed by owners and operators to:	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.65(a)	x		x	
3745-34-54	B	SHALL	A well SHALL be deemed by the director to have compatibility as long as the materials used in the construction of the well meet or exceed the REQUIREments of this rule.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.65(b)	x		x	x

3745-34-54	C(1)	SHALL	Casing and cement used in the construction of each newly drilled well SHALL be designed for the life expectancy of the well, including the post-closure care period. The casing and cementing program SHALL be designed to prevent the movement of fluids into or between USDWs, and to prevent potential leaks of fluids from the well. In establishing casing and cementing REQUIREments of the permit, the director SHALL consider the following information as REQUIRED by rule 3745-34-59 of the Administrative Code.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.65(c)	x	x	
3745-34-54	C(2)	SHALL	One surface casing string SHALL, at a minimum, extend into the confining bed below the lowest formation that contains a USDW and be cemented by circulating cement from the base of the casing to the surface, using a minimum of one hundred twenty per cent of the calculated annular volume.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.65(c)	x	x	
3745-34-54	C(3)	SHALL	At least one long string casing, using a sufficient number of centralizers, SHALL extend to the injection zone and SHALL be cemented by circulating cement to the surface in one or more stages: (a) Of sufficient quantity and quality	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.65(c)	x	x	
3745-34-54	D(1)		All class I hazardous waste injection wells SHALL inject fluids through tubing with a packer set at a point approved by the director.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.65(d)	x	x	
3745-34-54	D(2)	SHALL	In determining and specifying REQUIREments for tubing and packer, the director SHALL consider the following factors, among others:	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.65(d)	x	x	
3745-34-54	C(2)	REQUIRE	The director may REQUIRE more than one hundred twenty per cent when the geology or other circumstances warrant to protect underground sources of drinking water.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.65(c)	x	x	
3745-34-54	C(3)(b)	REQUIRE	The director may REQUIRE more than one hundred twenty per cent when the geology or other circumstances warrant to protect underground sources of drinking water.	6111.043	Fed REQUIRED	Does not exceed 40 CFR 146.65(c)	x	x	
3745-34-56	(A) - L2	SHALL	Except during stimulation, the owner or operator of a class I injection well SHALL assure the director in writing, that injection pressure at the wellhead does not exceed a maximum which SHALL be calculated so as to ensure that the pressure in the injection zone during injection does not initiate new fractures or propagate existing fractures in the injection zone.	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(A) - L3	SHALL	Except during stimulation, the owner or operator of a class I injection well SHALL assure the director in writing, that injection pressure at the wellhead does not exceed a maximum which SHALL be calculated so as to ensure that the pressure in the injection zone during injection does not initiate new fractures or propagate existing fractures in the injection zone.	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(A) - L6	SHALL	The owner or operator SHALL operate a class I injection well such that the injection pressure does not initiate fractures or propagate existing fractures in the confining zone, or cause the movement of injection or formation fluids into a USDW.	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(B) - L2	prohibited	Injection between the outermost casing protecting USDWs and the well bore is prohibited.	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(C) - L1	SHALL	The owner or operator of a class I hazardous waste injection well SHALL maintain an annulus pressure that exceeds the operating injection pressure, unless the director determines that such a REQUIREment might harm the integrity of the well.	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(C) - L4	SHALL	The fluid in the annulus SHALL be noncorrosive, or SHALL contain a corrosion inhibitor	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(C) - L4	SHALL	The fluid in the annulus SHALL be noncorrosive, or SHALL contain a corrosion inhibitor	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(D) - L1	SHALL	The owner or operator of a class I hazardous waste injection well SHALL maintain mechanical integrity of the injection well at all times.	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(E) - 3	SHALL	Permit REQUIREments for owners or operators of hazardous waste wells which inject wastes which have the potential to react with the injection formation to generate gases SHALL include:	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(F) - L1	SHALL	The owner or operator of a class I hazardous waste injection well SHALL install and use continuous recording devices to monitor the injection pressure; the flow rate, volume, and temperature of injected fluids and the pressure on the annulus between the tubing and the long string casing, and SHALL install and use:	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(F) - L4	SHALL	The owner or operator of a class I hazardous waste injection well SHALL install and use continuous recording devices to monitor the injection pressure; the flow rate, volume, and temperature of injected fluids and the pressure on the annulus between the tubing and the long string casing, and SHALL install and use:	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(G) - L1	SHALL	If an automatic alarm or shutdown is triggered, the owner or operator SHALL investigate immediately and identify as expeditiously as possible the cause of the alarm or shutdown.	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(G) - L6	SHALL	If, upon such investigation, the well appears to be lacking mechanical integrity, or if monitoring REQUIRED under paragraph (F) of this rule otherwise indicates that the well may be lacking mechanical integrity, the owner or operator SHALL:	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(H) - L3	SHALL	In the event that a loss of mechanical integrity is discovered pursuant to this rule or during periodic mechanical integrity testing, the owner or operator SHALL:	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(I)(1) - L1	SHALL	The owner or operator SHALL immediately cease injection of waste fluids, and:	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(J) - L1	SHALL	The owner or operator of a class I hazardous waste injection well SHALL submit a plan for approval to the director prior to conducting any well work over which REQUIRES removal of the injection tubing.	6111.043	FED	146.67 [operating REQUIREments]			
3745-34-56	(J) - L3	REQUIRES	The owner or operator of a class I hazardous waste injection well SHALL submit a plan for approval to the director prior to conducting any well work over which REQUIRES removal of the injection tubing.	6111.043	FED	146.67 [operating REQUIREments]			

3745-34-57	L1	SHALL	Testing and monitoring REQUIREments for all class I injection wells SHALL include monitoring of the injected wastes:	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(A) - L1	SHALL	The owner or operator of a class I injection well SHALL submit a written waste analysis plan to the director for approval that describes the procedures to be carried out to obtain a detailed chemical and physical analysis of a representative sample of the injected waste, including the quality assurance procedures used.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(A) - L5	SHALL	The plan SHALL include:	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(B) - L1	SHALL	The owner or operator of a class I injection well SHALL repeat the analysis of the injected wastes as described in the waste analysis plan at frequencies specified in the waste analysis plan and when process or operating changes occur that may significantly alter the characteristics of the waste stream	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(C) - L1	SHALL	The owner or operator of a class I injection well SHALL conduct continuous or periodic monitoring of selected parameters as may be REQUIRED by the director.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(D) - L1	SHALL	The owner or operator of a class I injection well SHALL assure that the waste analysis plan remains accurate and the analyses remain representative.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(E) - L1	SHALL	The owner or operator of a class I injection well SHALL as part of the waste analysis plan submit information demonstrating to the satisfaction of director that the waste stream and its anticipated reaction products will not alter the permeability, thickness or other relevant characteristics of the confining or injection zones such that they would no longer meet the REQUIREments specified in rule 3745-34-51 of the Administrative Code.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(F) - L1	SHALL	The owner or operator of a class I injection well SHALL as part of the waste analysis plan demonstrate that the waste stream will be compatible with the well materials with which the waste is expected to come into contact, and submit to the director a description of the methodology used to make that determination.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(H) - L3	SHALL	The owner or operator of a class I hazardous waste injection well that injects corrosive waste, or any other waste determined by the director to be potentially interactive with the materials of well construction, SHALL implement a corrosion monitoring program including:	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(I) - L2	SHALL	The owner or operator of a class I hazardous waste injection well SHALL conduct the mechanical integrity testing REQUIRED by rule 3745-34-34 of the Administrative Code and approved by the administrator of U.S. EPA as follows:	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(I)(1) - L1	SHALL	The long string casing, injection tube, and annular seal SHALL be tested by means of a pressure test approved by the director, utilizing a liquid or gas, annually and whenever there has been a well work over; and	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(I)(2) - L1	SHALL	On an annual basis the bottom-hole cement SHALL be tested by means of a radioactive tracer survey approved by the director; and	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(I)(3) - L1	SHALL	A temperature, noise, or other log approved by the director SHALL be run at least once every three years to test for movement of fluid along the bore hole.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(I)(3) - L3	REQUIRE	The director may REQUIRE such tests whenever the well is worked over; and	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(I)(4) - L1	SHALL	Casing inspection logs SHALL be run whenever the owner or operator conducts a workover in which the injection string is pulled, unless the director waives this REQUIREment due to well construction or other factors which limit the test's reliability, or based upon the satisfactory results of a casing inspection log run within the previous five years.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(I)(4) - L6	REQUIRE	The director may REQUIRE that a casing inspection log be run every five years, if he has reason to believe that the integrity of the long string casing of the well may be adversely affected by naturally occurring or man-made events; and	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(J)(1) - L3	REQUIRE	Based on a site specific assessment of the potential for fluid movement from the well or injection zone, and on the potential value of monitoring wells to detect such movement, the director SHALL REQUIRE the owner or operator to submit for approval, a monitoring program plan.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			X
3745-34-57	(J)(1) - L5	SHALL	The director SHALL REQUIRE monitoring of the pressure buildup in the injection zone annually, including at a minimum, a shut down of the well for a time sufficient to conduct a valid observation of the pressure fall-off curve.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			X
3745-34-57	(J)(1) - L5	REQUIRE	The director SHALL REQUIRE monitoring of the pressure buildup in the injection zone annually, including at a minimum, a shut down of the well for a time sufficient to conduct a valid observation of the pressure fall-off curve.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(J)(2)(a) - L3	SHALL	When such a well or wells is/are installed, the owner or operator SHALL, on a quarterly basis, sample the aquifer and analyze for constituents specified in the approved monitoring program plan; and	6111.043	FED	146.68 [testing and monitoring REQUIREments]			
3745-34-57	(K) - L1	REQUIRE	The director may REQUIRE the owner or operator of a class I injection well to submit a seismicity monitoring plan for approval when he has reason to believe that injection activity may have the capacity to cause seismic disturbances.	6111.043	FED	146.68 [testing and monitoring REQUIREments]			

3745-34-59	(A) - L1	SHALL	For a new class I hazardous waste injection well, the owner SHALL submit all information listed in paragraph (B) of this rule as part of the permit application except for those items of information which are current, accurate, and available in the existing permit record.	6111.043	FED	146.70 - ****Moved provisions to permitting application rules, OAC 3745-34-13, 3745-34-14, and/or 3745-34-15.**			
3745-34-59	(B) - L3	SHALL	Prior to the issuance of a permit for an existing class I hazardous waste injection well to operate or the construction or conversion of a new class I hazardous waste injection well, the director SHALL review the following to assure that the REQUIREments of this chapter are met:	6111.043	FED	40 CFR 146.70			X
3745-34-59	(B)(1) - L1	REQUIRED	Information REQUIRED by rules 3745-34-12, 3745-34-13, and 3745-34-14 of the Administrative Code;	6111.043	FED	40 CFR 146.70			
3745-34-59	(B)(3) - L2	SHALL	Such data SHALL include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion and any additional information the director may REQUIRE;	6111.043	FED	40 CFR 146.70			
3745-34-59	(B)(3) - L4	REQUIRE	Such data SHALL include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion and any additional information the director may REQUIRE;	6111.043	FED	40 CFR 146.70			
3745-34-59	(C) - L2	SHALL	Prior to the director's granting approval for the operation of a Class I hazardous waste injection well, the owner SHALL submit to the director for review the following information, which SHALL be included in the completion report:	6111.043	FED	40 CFR 146.70			
3745-34-59	(C) - L3	SHALL	Prior to the director's granting approval for the operation of a Class I hazardous waste injection well, the owner SHALL submit to the director for review the following information, which SHALL be included in the completion report:	6111.043	FED	40 CFR 146.70			
3745-34-59	(C) (4) - L1	REQUIRED	The results of the injection zone and confining zone testing program as REQUIRED in rule 3745-34-60 of the Administrative Code;	6111.043	FED	40 CFR 146.70			
3745-34-59	(D) - L2	SHALL	Prior to granting approval for the plugging and abandonment or closure of a Class I hazardous waste injection well, the director SHALL review the information REQUIRED by rules 3745-34-61 and 3745-34-62 of the Administrative Code.	6111.043	FED	40 CFR 146.70			
3745-34-59	(E) - L2	SHALL	Any permit issued for a Class I hazardous waste injection well for disposal on the premises where the waste is generated SHALL contain a certification by the owner or operator that	6111.043	FED	40 CFR 146.70			
3745-34-61	(A) - L1	SHALL	The owner or operator of a Class I hazardous waste injection well SHALL prepare, maintain, and comply with a plan approved by the director for post-closure care that meets the REQUIREments of this rule and is in compliance with rule 3745-34-09 of the Administrative Code	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(A) - L5	SHALL	The owner or operator SHALL implement the approved post closure plan upon termination of a permit or the cessation of injection activities	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(B) - L1	SHALL	The owner or operator of a Class I hazardous waste injection well SHALL submit the post closure plan as part of the permit application and, upon approval by the director, such plan SHALL be a condition of any permit issued.	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(B) - L3	SHALL	The owner or operator of a Class I hazardous waste injection well SHALL submit the post closure plan as part of the permit application and, upon approval by the director, such plan SHALL be a condition of any permit issued.	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(C) - L1	SHALL	The owner or operator of a Class I hazardous waste injection well SHALL submit any proposed significant revision to the post closure plan as appropriate over the life of the well, but no later than the date of the closure report REQUIRED under rule 3745-34-59 of the Administrative Code.	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(C) - L4	REQUIRED	The owner or operator of a Class I hazardous waste injection well SHALL submit any proposed significant revision to the post closure plan as appropriate over the life of the well, but no later than the date of the closure report REQUIRED under rule 3745-34-59 of the Administrative Code.	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(D) - L1	SHALL	The post closure plan SHALL assure financial responsibility as REQUIRED by rule 3745-34-62 of the Administrative Code.	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(D) - L1	REQUIRED	The post closure plan SHALL assure financial responsibility as REQUIRED by rule 3745-34-62 of the Administrative Code.	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(E) - L1	SHALL	The post closure plan SHALL include the following information:	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(E)(5) - L1	REQUIRED	The status of any cleanups REQUIRED under rule 3745-34-53 of the Administrative Code; and	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(F) - L1	SHALL	The owner or operator of a Class I hazardous waste injection well SHALL:	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(F)(1) - L1	REQUIRED	Continue and complete any cleanup action REQUIRED under rule 3745-34-53 of the Administrative Code if applicable; and	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(F)(2) - L1	REQUIRED	Continue and complete any cleanup action REQUIRED under rule 3745-34-53 of the Administrative Code if applicable; and	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(F)(5) - L4	SHALL	Retain, for a period of three years following well closure, records reflecting the nature, composition and volume of all injected fluids, which will be delivered to the director at the conclusion of the retention period, and the records SHALL thereafter be retained at a location designated by the director for that purpose.	6111.043	FED	146.74 [post-closure care]			
3745-34-61	(H) - L3	MUST	Each owner of a Class I hazardous waste injection well, and the owner of the surface or subsurface property on or in which a Class I hazardous waste injection well is located, MUST record a notation on the deed to the facility property or on some other instrument which is normally examined during title search that will, in perpetuity, provide any potential purchaser of the property with the following information	6111.043	FED	146.74 [post-closure care]			
3745-34-62	L1	SHALL	The owner or operator SHALL comply with the financial responsibility REQUIREments of rules 3745-55-42 to 3745-55-51 or 3745-66-42 to 3745-66-48 of the Administrative Code	6111.043	FED	146.73 [financial assurance]			

3745-34-63	(A) - L5	SHALL	The owner of a class I injection well for which the director has issued a permit or renewal of a permit for the disposal of any hazardous waste identified in or listed under section 3734.12 of the Revised Code or the rules adopted thereunder, and that waste is generated on the premises where the injection well is located SHALL pay an annual permit fee of thirty thousand dollars	6111.043	State Req				
3745-34-63	(A) - L6	SHALL	Said fee SHALL be payable by certified check drawn to the "Director of Environmental Protection - Underground Injection Control Fund," within thirty days of the issuance of a permit or renewal of a permit, and annually thereafter during the term of the permit or renewal of the permit	6111.043	State Req				
3745-34-63	(A) - L10	SHALL	Annual payment SHALL be tendered within thirty days prior to the anniversary date of the issuance of the permit or renewal of the permit	6111.043	State Req				
3745-34-63	(A) - L12	SHALL	Failure to timely remit the annual permit fee SHALL be a violation of the permit or renewal of the permit, this rule, and section 6111.046 of the Revised Code.	6111.043	State Req				
3745-34-63	(B) - L3	SHALL	The owner of a class I injection well for which the director has issued a permit or renewal of a permit for the injection of any waste other than that identified in paragraph (A) of this rule, SHALL pay an annual permit fee of twelve thousand five hundred dollars.	6111.043	State Req				
3745-34-63	(B) - L4	SHALL	Said fee SHALL be payable by certified check drawn to the "Director of Environmental Protection - Underground Injection Control Fund," within thirty days of the issuance of a permit or renewal of a permit, and annually thereafter during the term of the permit or renewal of the permit	6111.043	State Req				
3745-34-63	(B) - L8	SHALL	Annual payment SHALL be tendered within thirty days prior to the anniversary date of the issuance of the permit or renewal of the permit.	6111.043	State Req				
3745-34-63	(B) - L10	SHALL	Failure to timely remit the annual permit fee SHALL be a violation of the permit or renewal of the permit, this rule and section 6111.046 of the Revised Code.	6111.043	State Req				
3745-34-63	(C) - L 1	SHALL	The owner of each class I injection facility SHALL act as trustee for the state of Ohio and collect a fee of one dollar per ton of industrial waste or other waste, to a maximum of twenty-five thousand dollars per year, irrespective of the number of wells at that facility.	6111.043	State Req				
3745-34-63	(C) - L4	SHALL	The owner or operator SHALL maintain appropriate records of the amount of waste injected at the facility.	6111.043	State Req				
3745-34-63	(C) - L6	SHALL	The owner or operator SHALL remit said fees payable by certified check drawn to the "Director of Environmental Protection - Underground Injection Control Fund" within thirty days prior to the anniversary date of the permit or renewal of the permit.	6111.043	State Req				
3745-34-63	(C) - L10	SHALL	For facilities where multiple permits are held, for purposes of this fee, the anniversary date SHALL be the date of issuance of the permit or the renewal of the permit closest to January first of the year of issuance.	6111.043	State Req				
3745-34-63	(C) - L12	SHALL	A penalty of ten per cent of the amount of the fee SHALL be assessed for each month of late payment.	6111.043	State Req				
3745-34-63	(C) - L13	SHALL	Failure to remit the appropriate fee SHALL be a violation of the permit or renewal of the permit, this rule and section 6111.047 of the Revised Code.	6111.043	State Req				
3745-34-63	(D) - L2	SHALL	Pursuant to section 6111.046 of the Revised Code, on or about July first of each year, the director SHALL request, in writing, that the office of budget and management transfer fifteen per cent of the money in the "Underground Injection Control Fund" to the "Injection Well Review Fund" created in section 1501.022 of the Revised Code.	6111.043	State Req				

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-81-01	(C)(8)	SHALL	"Compliance cycle" means the nine-year cycle for monitoring during which public water systems SHALL monitor.	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			
3745-81-01	(G)(1)	SHALL	"GAC10" means granular activated carbon filter beds with an empty-bed contact time of ten minutes based on average daily flow and a carbon reactivation frequency of every one hundred eighty days, except that the reactivation frequency for GAC10 used as a best available technology for compliance with rule 3745-81-12 of the Administrative Code SHALL be one hundred twenty days.	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			
3745-81-01	(L)(6)	SHALL	The system SHALL conduct the assessment consistent with any instructions from the director that tailor specific assessment elements with respect to the size and type of the system and the size, type and characteristics of the distribution system	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			
3745-81-01	(L)(7)	SHALL	The public water system SHALL comply with any expedited actions or additional actions REQUIRED by the director in the case of an Escherichia coli maximum contaminant level violation.	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			
3745-81-01	(N)(2)	SHALL	Public water systems REQUIRED to collect samples during normal operating conditions SHALL not deliberately change distribution or treatment processes, or operating practices during or just prior to sample collection for the sole purpose of influencing sample results collected for compliance purposes.	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			
3745-81-01	(P)(11)(a)	SHALL	The population of a CWS SHALL be determined by an actual count of residents or by multiplying the number of service connections by the average household size.	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			
3745-81-01	(P)(11)(a)	SHALL	In the case of a prison cell, nursing home bed, or an otherwise occupied or intended to be occupied living space that is or may be occupied on a day-to-day basis by an individual, the population SHALL be determined by an actual count of beds available.	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			
3745-81-01	(P)(11)(b)	SHALL	When the average number of individuals regularly served by a noncommunity water system cannot be readily determined, the director SHALL determine the population served on a case by case basis.	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			x
3745-81-01	(P)(11)	prohibited	An existing public water system is prohibited from splitting the distribution system or adding additional sources to avoid regulation by Chapter 6109. of the Revised Code.	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			
3745-81-01	(L)(1)	MAY NOT	"Lake/reservoir" means a natural or man-made basin or hollow on the Earth's surface in which water collects or is stored that may or MAY NOT have a current or single direction of flow.	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			
3745-81-01	(B)(3)	MUST	For synthetic organic chemicals, any BAT MUST be at least as effective as granular activated carbon.	6109.04, 6109.121	Federal REQUIRED	40 CFR 141.2			
3745-81-02	intro	SHALL	This chapter SHALL apply to each public water system, unless the public water system meets all of the following conditions:	6109.04	Federal REQUIRED	40 CFR 141.1			
3745-81-03	intro	SHALL	Before a person may enter into a financial commitment for or initiate construction of a new public water system or increase the capacity of an existing public water system, he SHALL notify the director and, to the extent practicable, avoid locating part or all of the new or expanded facility at a site which:	6109.23, 6109.121, 61	Federal REQUIRED	40 CFR 141.5			
3745-81-10	(A)	SHALL	Community and nontransient noncommunity public water systems that supply water treated with chlorine and/or chloramines SHALL comply with the total chlorine MRDL.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.65			
3745-81-10	(B)	SHALL	Public water systems that treat their water with chlorine dioxide SHALL comply with the chlorine dioxide MRDL.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.65			
3745-81-11	E	SHALL	The director may determine that a public water system SHALL apply best available technology in order to reduce the level of a contaminant to below its MCL. The	6109.03, 6109.04	Federal REQUIRED	Fed L 40 CFR 144.62	X	x	

3745-81-12	A	SHALL	The director may determine that a public water system SHALL apply the following best available technology (BAT), for achieving compliance with the maximum contaminant levels (MCLs) for organic disinfection byproducts identified in this table:	6109.04	Federal REQUIRED	Fed 40 CFR § 141.61, U.S. EPA Stage 2 Disinfectants and Disinfection Byproducts, Final Rule, 71 FR 388, January 4, 2006	X	x	
3745-81-12	B	SHALL	The director may determine that a public water system SHALL apply the following best technology, treatment techniques or other means available for achieving compliance with the MCLs for TTHM and HAA5 identified in this rule for consecut	6109.04	Federal REQUIRED	Fed 40 CFR § 141.61, U.S. EPA Stage 2 Disinfectants and Disinfection Byproducts, Final Rule, 71 FR 388, January 4, 2006	X	x	
3745-81-12	C	SHALL	The director may determine that a public water system SHALL apply best available technology in order to reduce the level of a contaminant to below its MCL.	6109.04	Federal REQUIRED	Fed 40 CFR § 141.61, U.S. EPA Stage 2 Disinfectants and Disinfection Byproducts, Final Rule, 71 FR 388, January 4, 2008	X	x	
3745-81-12	D	SHALL	The director may determine that a public water system SHALL apply BAT in order to reduce the level of a contaminant to below its MCL.	6109.04	Federal REQUIRED	Fed 40 CFR § 141.61, U.S. EPA Stage 2 Disinfectants and Disinfection Byproducts, Final Rule, 71 FR 388, January 4, 2009	X	x	
3745-81-14	E	SHALL	Until March 31, 2016, a public water system SHALL determine compliance with the MCL for total coliforms as set forth in paragraphs (A), (B) and (C) of	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.63	X	X	
3745-81-14	F	SHALL	Beginning April 1, 2016, a public water system SHALL determine compliance with the MCL for E. coli as set forth in paragraph (D) of	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.63	X	X	
3745-81-14	G	SHALL	Until March 31, 2016, a public water system which exceeds any MCL for total coliforms set forth in paragraphs (A), (B) and (C) of this rule SHALL do all of the following:	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.63	X	x	
3745-81-14	H	SHALL	The director may determine that a public water system SHALL apply best available technology in order to reduce the level of a contaminant to below its MCL. The	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.63	X		
3745-81-14	E	REQUIRE	Until March 31, 2016, a public water system SHALL determine compliance with the MCL for total coliforms as set forth in paragraphs (A), (B) and (C) of this rule for each period in which the public water system is REQUIRED to monitor for total coliforms.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.63	X	x	
3745-81-14	F	REQUIRE	Beginning April 1, 2016, a public water system SHALL determine compliance with the MCL for E. coli as set forth in paragraph (D) of this rule for each period in which the public water system is REQUIRED to monitor for total coliforms.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.63	X	x	
3745-81-14	H(4)	REQUIRE	Filtration or disinfection by public water systems using surface water, in whole or in part, as REQUIRED by rules 3745-81-64 to 3745-81-69 and 3745-81-71 to 3745-81-75 of the Administrative Code, or disinfection of ground water, as REQUIRED by rules 3745-81-41 to 3745-81-45 of the Administrative Code, using strong oxidants such as chlorine, chlorine dioxide or ozone .	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.63	X	x	
3745-81-15	B	SHALL	The gross alpha particle activity value may be adjusted by subtracting the result of the analysis for uranium. If the result for uranium is reported as a mass measurement in micrograms per liter (µg/L), the activity value in pCi/L SHALL be obtained by multiplying the result with a conversion factor of 0.67 pCi/µg.	6109.04	Federal REQUIRED	Not a federal or state REQUIREment but explains how the obtained.	X		
3745-81-15	C(1)	SHALL	If two or more radionuclides are present, the sum of their annual dose equivalent to the total body or to any organ SHALL not exceed four mrem/yr.	6109.04	Federal REQUIRED	40 CFR 141.66, US EPA's National Primary Drinking Water Regulations for Radionuclides, Final Rule	X	x	
3745-81-15	D	SHALL	If the result for uranium is reported as an activity measurement in pCi/L, the mass in µg/L SHALL be obtained by multiplying the result with a conversion factor of 1.49 µg/pCi	6109.04	Federal REQUIRED	Not a federal or state REQUIREment but explains how the obtained.	X		
3745-81-15	E	SHALL	The director may determine that a public water system SHALL apply best available technology in order to reduce the level of a contaminant to below its MCL.	6109.04	Federal REQUIRED	40 CFR 141.66, US EPA's National Primary Drinking Water Regulations for Radionuclides, Final Rule	X	x	
3745-81-17	(B)	SHALL	Each public water system utilizing polymers containing acrylamide or epichlorohydrin SHALL certify annually in writing to the director (using third-party or manufacturer's certification) that when polymers containing acrylamide or epichlorohydrin are used in the drinking water system, the combination (or product) of dose and monomer level does not exceed either of the levels specified as follows:	6109.04	Federal REQUIRED	40 CFR 141.111			
3745-81-19	(A)	SHALL	Public water systems SHALL not use bottled water to achieve compliance with the REQUIREments of this chapter.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.101			
3745-81-19	(A)	SHALL	The bottled water SHALL be of a quality acceptable to the director	6109.03, 6109.05	Federal REQUIRED	40 CFR 141.101			
3745-81-19	(B)	MAY NOT	Except as provided below, a public water system MAY NOT use point-of-use or point-of-entry treatment devices to achieve compliance with a MCL.	6109.03, 6109.06	Federal REQUIRED	40 CFR 141.101			

3745-81-19	(B)(1)	SHALL	Point-of-use and point-of-entry treatment devices SHALL be owned, controlled, and maintained by the public water system, or by a person under contract with the public water system, to ensure proper operation and maintenance and compliance with the arsenic maximum contaminant level.	6109.03, 6109.07	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(2)	MUST	Chemical and microbiological analyses for constituents that may affect the performance or maintenance of the proposed point-of-entry or point-of-use device MUST be performed on water entering the treatment device and reported in the detail plans	6109.03, 6109.08	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(2)	MAY NOT	Results of samples collected more than twelve months prior to plan submittal MAY NOT be accepted.	6109.03, 6109.09	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(2)	SHALL	Before any new point-of-use or point-of-entry treatment devices are installed for compliance with the arsenic MCL, or any existing point-of-use or point-of-entry treatment devices are used for compliance with the arsenic MCL, the public water system SHALL obtain approval of detail plans in accordance with Chapter 3745-91 of the Administrative Code.	6109.03, 6109.10	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(2)	SHALL	Detail plans SHALL include data from an acceptable demonstration study and a monitoring plan which ensures that the treatment devices provide health protection equivalent to that provided by central water treatment.	6109.03, 6109.11	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(2)	SHALL	Detail plans SHALL describe how the system design SHALL ensure that water of increased corrosivity SHALL not be released to the drinking water distribution system.	6109.03, 6109.12	Federal REQUIRED	40 CFR 141.100			
3745-81-19		SHALL	Detail plans SHALL describe how the system design SHALL ensure that water of increased corrosivity SHALL not be released to the drinking water distribution system.	6109.03, 6109.13	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(2)	SHALL	Detail plans SHALL describe how the system design SHALL ensure that water of increased corrosivity SHALL not be released to the drinking water distribution system.	6109.03, 6109.14	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(2)	SHALL	The monitoring plan SHALL include at least the following parts:	6109.03, 6109.15	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(2)(c)	SHALL	At least one treatment device (or a minimum of twenty-five per cent of treatment devices) SHALL be sampled for arsenic each quarter unless otherwise approved by the director	6109.03, 6109.16	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(2)(c)	SHALL	Each treatment device SHALL be sampled at least once annually.	6109.03, 6109.17	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(3)	MUST	The public water system MUST apply effective technology under a plan approved by the director.	6109.03, 6109.18	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(3)	MUST	The microbiological safety of the water MUST be maintained at all times.	6109.03, 6109.19	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(4)	SHALL	The design and application of any point-of-entry or point-of-use treatment device SHALL consider the potential for increase in bacteria concentrations in water treated with activated carbon.	6109.03, 6109.20	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(5)	SHALL	The public water system SHALL ensure that all buildings connected to the system have sufficient point-of-use or point-of-entry treatment devices that are properly installed, maintained, and monitored such that all consumers will be protected. P	6109.03, 6109.21	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(5)	MUST	Public water systems using point-of-use technology MUST install devices at every tap where common practice is to obtain water for ingestion.	6109.03, 6109.22	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(6)	SHALL	All point-of-use and point-of-entry treatment devices SHALL be equipped with mechanical warnings that automatically alert consumers of operational problems.	6109.03, 6109.23	Federal REQUIRED	40 CFR 141.100			

3745-81-19	(B)(7)	SHALL	The point-of-entry or point-of-use treatment device SHALL be certified by an accredited "American National Standards Institute" (ANSI) certification program for drinking water treatment units in accordance with one of the following "American National Standards Institute/National Sanitation Foundation" (ANSI/NSF) standards: standard 58 "Reverse Osmosis Drinking Water Treatment Systems 58-2007 (October 22, 2007)"; standard 62 "Drinking Water Distillation Systems 62-2004 (March 16, 2004)"; or standard 53 "Drinking Water Treatment Units-Health Effects 53-2007a (July 10, 2007)".	6109.03, 6109.24	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(8)	SHALL	Maintenance of the treatment device SHALL occur according to manufacturers suggestions, or at an interval determined during a demonstration period, whichever time period is shorter.	6109.03, 6109.25	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(9)	MUST	Upon failure of the point-of-entry or point-of-use treatment device, all repairs or replacements MUST be completed as soon as practical, but no later than fourteen days after the failure.	6109.03, 6109.26	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(10)	MUST	The point-of-entry or point-of-use treatment device MUST be operational at all times to provide water that meets the arsenic standard at REQUIRED taps.	6109.03, 6109.27	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(10)(b)	SHALL	At any time a point-of-use or point-of-entry treatment device is not operating due to maintenance or failure of the device, a notice SHALL be posted at any tap served by that device.	6109.03, 6109.28	Federal REQUIRED	40 CFR 141.100			
3745-81-19	(B)(10)(b)	SHALL	The notice SHALL inform consumers that the water from that tap is not suitable for ingestion due to elevated arsenic concentration and direct them to alternative taps or sources that are suitable for ingestion	6109.03, 6109.29	Federal REQUIRED	40 CFR 141.100			
3745-81-21	(A)	SHALL	Public water systems SHALL collect total coliform routine samples at sites which are representative of water throughout the distribution system according to a written sample siting plan	6109.04	Federal REQUIRED	40 CFR 141.21			
3745-81-21	(A)	SHALL	Samples for determination of compliance with this chapter SHALL be analyzed in a laboratory holding valid certification to analyze drinking water for microbiological contaminants under Chapter 3745-89 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.21			
3745-81-21	(A)	SHALL	The samples SHALL be analyzed by one or more of the approved methods listed in rule 3745-81-27 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.21			
3745-81-21	(A)(1)(b)	SHALL	A community water system using a surface water source, in whole or in part, serving fewer than three thousand three hundred one persons SHALL monitor at regular intervals for total coliforms no less than four times per month.	6109.04	Federal REQUIRED	40 CFR 141.21			
3745-81-21	(A)(2)(a)	SHALL	A noncommunity water system using only ground water or purchased water and serving not more than one thousand persons SHALL monitor with at least one sample each calendar quarter that the noncommunity water system provides water to the public.	6109.04	Federal REQUIRED	40 CFR 141.21			
3745-81-21	(A)(2)(b)	SHALL	A noncommunity water system using only ground water and serving more than one thousand persons during any month SHALL monitor at the same frequency as a community water system serving the same number of persons, as specified in paragraph (A)(1)(a) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.21			
3745-81-21	(A)(2)(c)	SHALL	A noncommunity water system using a surface water source, in whole or in part, and serving a population of greater than four thousand one hundred persons SHALL monitor at the same frequency as a community water system serving the same number of persons, as specified in paragraph (A)(1)(a) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.21			
3745-81-21	(A)(2)(c)	SHALL	A noncommunity water system using surface water, in whole or in part, serving a population of fewer than four thousand one hundred one persons SHALL monitor at least four times per month for any month the noncommunity water system serves water to the public.	6109.04	Federal REQUIRED	40 CFR 141.21			
3745-81-21	(A)(3)	SHALL	Public water systems SHALL monitor with samples taken at regular time intervals throughout the month in accordance with the system's sample siting plan.	6109.04	Federal REQUIRED	40 CFR 141.21			
3745-81-21	(A)(4)	SHALL	Special purpose samples, such as those taken to determine whether disinfection practices are sufficient following pipe placement, replacement, or repair, SHALL not be used to determine compliance with the maximum contaminant level (MCL) for total coliforms as set forth in rule 3745-81-14 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.21			

3745-81-21	(A)(4)	SHALL	The special purpose samples SHALL be marked as such before analysis. Repeat samples taken pursuant to paragraph (B) of this rule are not considered special purpose samples, and SHALL be used to determine compliance with the MCL for total coliforms as set forth in rule 3745-81-14 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(A)(4)	SHALL	Repeat samples taken pursuant to paragraph (B) of this rule are not considered special purpose samples, and SHALL be used to determine compliance with the MCL for total coliforms as set forth in rule 3745-81-14 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(A)(5)	SHALL	Under no circumstances SHALL the REQUIRED monitoring be less than that prescribed by this rule.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(1)	SHALL	When a routine sample is determined to be total coliform-positive, the public water system SHALL monitor with a set of four repeat samples within twenty-four hours of being notified of the positive result.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(1)	SHALL	When an extension is granted by the director, the director SHALL specify how much time the public water system has to monitor with repeat samples.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(2)	SHALL	The public water system SHALL monitor with at least one repeat sample from the sampling tap where the original total coliform-positive sample was taken, and at least one repeat sample at a tap within five service connections upstream and at least one repeat sample at a tap within five service connections downstream of the original sampling site.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(2)	SHALL	The fourth repeat sample SHALL be collected within five service connections upstream or downstream of the original sampling site. When a total coliform-positive sample was taken at an end of the distribution system or one service connection away from an end of the distribution system, the director may waive the REQUIREment to monitor with at least one repeat sample upstream or downstream of the original sampling site.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(3)	SHALL	Public water systems SHALL collect all total coliform repeat samples on the same day.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(4)	SHALL	When one or more repeat samples in the set is total coliform-positive, the public water system SHALL continue to monitor with additional sets of repeat samples in the manner specified in paragraphs (B)(1) to (B)(3) of this rule until total coliforms are not detected in one complete set of repeat samples or the system determines that the MCL for total coliforms in rule 3745-81-14 of the Administrative Code has been exceeded and notifies the director no later than the end of the next business day after the public water system learns of the violation.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(5)	SHALL	Until March 31, 2016, failure to monitor and report REQUIRED repeat samples is a monitoring and reporting violation, for which public notification SHALL be issued in accordance with rule 3745-81-32 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(6)	SHALL	Until March 31, 2016, public notification issued as a result of a violation in paragraph (C) of rule 3745-81-14 of the Administrative Code or paragraph (B)(5) of this rule, and which may cause an acute risk to human health, SHALL remain in effect until total coliforms are not detected in one complete set of repeat samples	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(7)	SHALL	When a public water system monitoring with fewer than five routine samples per month has one or more total coliform-positive samples, the public water system SHALL monitor with at least five routine samples during the next month that the public water system provides water to the public	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(7)	SHALL	The director SHALL not waive the REQUIREment for a public water system to collect repeat samples in paragraphs (B)(1) to (B)(4) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.21				X
3745-81-21	(B)(9)	SHALL	When a routine or repeat total coliform sample is analyzed by a membrane filter technique and produces a high background count (HBC) or confluent growth, the HBC or confluent growth culture SHALL be further analyzed for total coliforms in accordance with a method included in the membrane filter techniques referred to in paragraph (D) of rule 3745-81-27 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(9)	SHALL	When an HBC or confluent growth culture is analyzed for total coliforms and none are found, the sample SHALL be considered invalid and the public water system SHALL monitor with a replacement sample within twenty-four hours of being notified of the invalid sample.	6109.04	Federal REQUIRED	40 CFR 141.21				

3745-81-21	(B)(9)	SHALL	When an HBC or confluent growth culture is analyzed for total coliforms and none are found, the sample SHALL be considered invalid and the public water system SHALL monitor with a replacement sample within twenty-four hours of being notified of the invalid sample.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(9)	SHALL	When an HBC or confluent growth culture is analyzed for total coliforms and none are found, the sample SHALL be considered invalid and the public water system SHALL monitor with a replacement sample within twenty-four hours of being notified of the invalid sample.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(B)(9)	SHALL	When an extension is granted by the director, the director SHALL specify how much time the public water system has to monitor with repeat samples.	6109.04	Federal REQUIRED	40 CFR 141.21				X
3745-81-21	(C)	SHALL	If any routine or repeat sample is total coliform-positive, that total coliform-positive culture SHALL be further analyzed to determine if fecal coliforms are present, except that the culture may be tested for E. coli in lieu of fecal coliforms.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(C)	SHALL	If fecal coliforms or E. coli are present, the system SHALL notify the director by the end of the day when the system is notified of the test result, unless the system is notified of the result after the director's office is closed, in which case the system SHALL notify the director before the end of the next business day.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(C)	SHALL	If fecal coliforms or E. coli are present, the system SHALL notify the director by the end of the day when the system is notified of the test result, unless the system is notified of the result after the director's office is closed, in which case the system SHALL notify the director before the end of the next business day.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(C)	SHALL	All repeat sample results SHALL be submitted no later than the end of the next business day following analysis.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-21	(D)	SHALL	A public water system which has failed to comply with a coliform monitoring REQUIREment, as set forth in this rule, SHALL report the monitoring violation to the director within ten days after the public water system discovers the violation, and notify the public in accordance with rule 3745-81-32 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.21				
3745-81-23	Intro	SHALL	All public water systems SHALL monitor as described in paragraphs (B) and (C) of this rule to determine compliance with the maximum contaminant levels (MCLs) for nitrate and nitrite.	6109.04	Federal REQUIRED	40 CFR 141.23				
3745-81-23	Intro	SHALL	In addition, all community water systems and all nontransient noncommunity water systems SHALL monitor as described in paragraphs (D) and (E) of this rule for the inorganic contaminants with MCLs listed in paragraph (B) of rule 3745-81-11 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23				
3745-81-23	Intro	SHALL	Public water systems SHALL monitor inorganic chemicals according to a schedule provided by the director.	6109.04	Federal REQUIRED	40 CFR 141.23				
3745-81-23	(A)	SHALL	Monitoring for inorganic chemicals with MCLs SHALL be conducted as follows.	6109.04	Federal REQUIRED	40 CFR 141.23				
3745-81-23	(A)(1)	SHALL	Groundwater systems and surface water systems SHALL monitor with a minimum of one sample at each sampling point.	6109.04	Federal REQUIRED	40 CFR 141.23				
3745-81-23	(A)(1)	SHALL	After the initial set of samples, the system SHALL take each repeat sample at the same sampling point as used before unless conditions make another sampling point more representative of a source or treatment plant.	6109.04	Federal REQUIRED	40 CFR 141.23				
3745-81-23	(A)(2)	SHALL	If a public water system draws water from more than one source and the sources are combined before distribution, the system SHALL monitor at each sampling point during periods of normal operating conditions and SHALL keep a record of and report the sources providing water for each sample.	6109.04	Federal REQUIRED	40 CFR 141.23				
3745-81-23	(A)(2)	SHALL	If a public water system draws water from more than one source and the sources are combined before distribution, the system SHALL monitor at each sampling point during periods of normal operating conditions and SHALL keep a record of and report the sources providing water for each sample.	6109.04	Federal REQUIRED	40 CFR 141.23				

3745-81-23	(A)(2)	SHALL	When a sample does not contain water from all the sources which serve the sampling point, a schedule prepared by the public water system SHALL be followed so that the next monitoring sample at this sampling point for the same inorganic chemical(s) will include water from sources not included in the previous sample or samples.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(A)(2)	SHALL	Thus, successive samples from the same sampling point for the same inorganic chemical(s) SHALL sample water supplied from different sources until all of the sources supplying that sampling point have been monitored.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(A)(2)	REQUIRE	Note that when inorganic chemicals have different monitoring periods, they REQUIRE separate monitoring schedules.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(A)(3)	SHALL	The frequency of monitoring for nitrate SHALL be according to paragraph (B) of this rule; the frequency of monitoring for nitrite SHALL be conducted according to paragraph (C) of this rule; the frequency of monitoring for asbestos SHALL be conducted according to paragraph (D) of this rule; and the frequency of monitoring for antimony, arsenic, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, selenium, and thallium SHALL be according to paragraph (E) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(A)(3)	SHALL	The frequency of monitoring for nitrate SHALL be according to paragraph (B) of this rule; the frequency of monitoring for nitrite SHALL be conducted according to paragraph (C) of this rule; the frequency of monitoring for asbestos SHALL be conducted according to paragraph (D) of this rule; and the frequency of monitoring for antimony, arsenic, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, selenium, and thallium SHALL be according to paragraph (E) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(A)(3)	SHALL	The frequency of monitoring for nitrate SHALL be according to paragraph (B) of this rule; the frequency of monitoring for nitrite SHALL be conducted according to paragraph (C) of this rule; the frequency of monitoring for asbestos SHALL be conducted according to paragraph (D) of this rule; and the frequency of monitoring for antimony, arsenic, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, selenium, and thallium SHALL be according to paragraph (E) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(A)(3)	SHALL	The frequency of monitoring for nitrate SHALL be according to paragraph (B) of this rule; the frequency of monitoring for nitrite SHALL be conducted according to paragraph (C) of this rule; the frequency of monitoring for asbestos SHALL be conducted according to paragraph (D) of this rule; and the frequency of monitoring for antimony, arsenic, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, selenium, and thallium SHALL be according to paragraph (E) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(A)(3)	SHALL	The frequency of monitoring for chlorite SHALL be conducted according to paragraph (M) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(B)	SHALL	All public water systems SHALL monitor to determine compliance with the MCL for nitrate in rule 3745-81-11 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(B)(1)	SHALL	All public water systems which are groundwater systems SHALL monitor for nitrate annually.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(B)(2)	SHALL	All public water systems which are surface water systems SHALL monitor for nitrate monthly.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(B)(3)	SHALL	The repeat monitoring frequency for nitrate for public groundwater systems SHALL be quarterly for at least one year following any one sample in which the concentration is at least fifty per cent of the MCL.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(B)(4)	SHALL	After the initial round of quarterly repeat monitoring for nitrate is completed, each groundwater system which is monitoring annually SHALL take subsequent samples during the quarter(s) which previously resulted in the highest analytical result.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(C)	SHALL	All public water systems SHALL monitor to determine compliance with the maximum contaminant level for nitrite in rule 3745-81-11 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(C)(1)	SHALL	All public water systems SHALL monitor initially for nitrite with one sample at each sampling point.	6109.04	Federal REQUIRED	40 CFR 141.23			

3745-81-23	(C)(2)	SHALL	After the initial sample, public water systems where an analytical result for nitrite is less than fifty per cent of the MCL SHALL monitor at the frequency specified by the director.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(C)(3)	SHALL	The repeat monitoring frequency for nitrite for public water systems SHALL be quarterly for at least one year following any one sample in which the concentration is at least fifty per cent of the MCL.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(C)(4)	SHALL	After the initial round of quarterly repeat monitoring for nitrite is completed, each public water system which is monitoring annually SHALL take each subsequent sample during the quarter(s) which previously resulted in the highest analytical result.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(D)	SHALL	The frequency of monitoring conducted by community water systems and nontransient noncommunity water systems to determine compliance with the MCL for asbestos specified in rule 3745-81-11 of the Administrative Code SHALL be as follows:	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(D)(1)	SHALL	Each community and nontransient noncommunity water system SHALL monitor for asbestos during the first three-year compliance period for each nine-year compliance cycle, except when a waiver is granted.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(D)(2)	SHALL	A public water system vulnerable to asbestos contamination due solely to corrosion of asbestos-cement pipe SHALL take one sample at a tap served by asbestos-cement pipe and under conditions where asbestos contamination is most likely to occur.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(D)(3)	SHALL	A public water system vulnerable to asbestos contamination due solely to source water SHALL monitor in accordance with the provisions of paragraph (A) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(D)(4)	SHALL	A public water system vulnerable to asbestos contamination due both to its source water supply and corrosion of asbestos-cement pipe SHALL take one sample at a tap served by asbestos-cement pipe and under conditions where asbestos contamination is most likely to occur.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(D)(5)	SHALL	A public water system which exceeds eighty per cent of the MCL for asbestos as determined in paragraph (H) of this rule SHALL monitor quarterly beginning in the next quarter after the violation occurred.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)	SHALL	The frequency of monitoring conducted by community water systems and nontransient noncommunity water systems for antimony, arsenic, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, selenium, and thallium to determine compliance with the MCLs in rule 3745-81-11 of the Administrative Code SHALL be as follows:	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(1)	SHALL	Ground water systems SHALL take and analyze one sample at each sampling point during each compliance period.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(1)	SHALL	Surface water systems SHALL take and analyze one sample annually at each sampling point.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(2)	SHALL	Arsenic sampling results SHALL be reported to the nearest 0.001 mg/L.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(3)	SHALL	The director may grant a waiver from the monitoring frequencies specified in paragraph (E)(1) of this rule for all of the contaminants listed in paragraph (E) of this rule except fluoride; no waivers SHALL be granted for fluoride.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(4)	REQUIRE	Waivers granted under this rule SHALL REQUIRE that the public water system monitor with at least one sample while the waiver is in effect.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(4)	SHALL	Waivers granted under this rule SHALL REQUIRE that the public water system monitor with at least one sample while the waiver is in effect.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(4)	SHALL	The term during which a waiver is in effect SHALL not exceed one compliance cycle (i.e., nine years).	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(5)	SHALL	Both surface and groundwater systems SHALL demonstrate that all previous analytical results were less than the MCLs.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(6)	SHALL	In determining the appropriate reduced monitoring frequency, the director SHALL consider:	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(7)	SHALL	A decision by the director to grant a waiver SHALL be made in writing and SHALL set forth the basis for the determination.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(7)	SHALL	A decision by the director to grant a waiver SHALL be made in writing and SHALL set forth the basis for the determination.	6109.04	Federal REQUIRED	40 CFR 141.23			

3745-81-23	(E)(7)	SHALL	The director SHALL review, and, where appropriate, revise the director's determination of the appropriate monitoring frequency when the system submits new monitoring data or when other data relevant to the system's appropriate monitoring frequency become available.	6109.04	Federal REQUIRED	40 CFR 141.23			X
3745-81-23	(E)(8)	SHALL	A public water system, which exceeds eighty per cent of a MCL as calculated in paragraph (H) of this rule, SHALL monitor quarterly for that contaminant beginning in the next quarter after the result was reported.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(9)	SHALL	A public water system that uses a new source of water or begins operation SHALL monitor initially for each contaminant listed in paragraph (E) of this rule in the first quarter of the next calendar year after operation of the new source or public water system begins.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(9)	SHALL	New public water systems SHALL sample at each sampling point.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(9)	SHALL	Existing public water systems with a new source of water SHALL sample at the sampling point related to the new source.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(10)	SHALL	If, during the initial sampling REQUIRED in paragraph (E)(9) of this rule, the analytical result for any inorganic contaminant does not exceed eighty per cent of the MCL in rule 3745-81-11 of the Administrative Code, then the public water system SHALL monitor for that inorganic contaminant according to the frequency specified in paragraph (E)(1) of this rule, or at a frequency determined by the director.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(11)	SHALL	If, during the initial sampling REQUIRED in paragraph (E)(9) of this rule, any contaminant is reported as a concentration above eighty per cent of the MCLs listed in rule 3745-81-11 of the Administrative Code, at any sampling point, the public water system SHALL monitor quarterly for that contaminant at that sampling point beginning in the next quarter after the result is reported.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(12)	REQUIRE	The director may also REQUIRE additional data demonstrating consistency of treatment performance.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(E)(13)	SHALL	Monitoring for arsenic at nontransient noncommunity public water systems which have installed approved point-of-use or point-of-entry treatment devices for arsenic removal in accordance with rule 3745-81-19 of the Administrative Code SHALL be conducted at sampling point(s) specified in a monitoring plan approval by the director and in accordance with a schedule provided by the director.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(F)(1)	SHALL	Where nitrate or nitrite monitoring indicates an exceedance of the MCL, the director may REQUIRE the public water system to monitor with a confirmation sample within twenty-four hours of the public water system's receipt of notification of the analytical results of the first sample. Public water systems unable to comply with the twenty-four hour sampling REQUIREment SHALL immediately notify the consumers in the area served by the public water system in accordance with rule 3745-81-32 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(F)(1)	REQUIRE	Where nitrate or nitrite monitoring indicates an exceedance of the MCL, the director may REQUIRE the public water system to monitor with a confirmation sample within twenty-four hours of the public water system's receipt of notification of the analytical results of the first sample.	6109.04	Federal REQUIRED	40 CFR 141.23			X
3745-81-23	(F)(1)	SHALL	Public water systems giving immediate notification SHALL monitor with a confirmation sample within two weeks of notification of the analytical results of the first sample.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(F)(2)	REQUIRE	Where the results of monitoring for antimony, arsenic, asbestos, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, selenium, or thallium indicate an exceedance of a MCL, the director may REQUIRE that a confirmation sample be collected at the same sampling point as soon as possible (but not to exceed two weeks) after notification of the initial monitoring result.	6109.04	Federal REQUIRED	40 CFR 141.23			X

3745-81-23	(F)(3)	SHALL	With confirmation samples REQUIRED under paragraphs (F)(1) and (F)(2) of this rule, the results of analysis of the initial and confirmation samples SHALL be averaged.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(F)(3)	SHALL	The resulting average SHALL be used to determine the water system's compliance in accordance with paragraph (H) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(G)	REQUIRE	The director may REQUIRE more frequent monitoring than specified in paragraphs (B), (C), (D), and (E) of this rule or may REQUIRE confirmation samples for positive and negative results at the director's discretion. The director has discretion to delete results of obvious sampling or analytical errors.	6109.04	Federal REQUIRED	40 CFR 141.23			X
3745-81-23	(G)	REQUIRE	The director may REQUIRE more frequent monitoring than specified in paragraphs (B), (C), (D), and (E) of this rule or may REQUIRE confirmation samples for positive and negative results at the director's discretion. The director has discretion to delete results of obvious sampling or analytical errors.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(H)	SHALL	Compliance with rule 3745-81-11 if the Administrative Code SHALL be determined based on the analytical result(s) obtained at each sampling point.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(H)(1)	SHALL	Compliance with the MCLs for nitrate and nitrite is determined based on one sample if the levels of these contaminants are below the MCLs. If the levels of nitrate and/or nitrite exceed the MCLs in the initial sample, and a confirmation sample is REQUIRED in accordance with paragraph (F)(1) of this rule, compliance SHALL be determined based on the average of the initial and confirmation samples	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(H)(2)	SHALL	If one sampling point is in violation of the MCL, the system is in violation of the MCL. If a public water system fails to collect the REQUIRED number of samples, compliance with the MCL (average concentration) will be based on the total number of samples collected. Any sample result below the following method detection limit (MDL) SHALL be calculated as zero for the purpose of determining the running annual average.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(H)(4)(a)	SHALL	For public water systems which are monitoring annually, or less frequently, for antimony, arsenic, asbestos, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, selenium, or thallium, when the average of a sample collected pursuant to paragraph (E) of this rule and a confirmation sample exceeds eighty per cent of the MCL, the public water system SHALL begin quarterly sampling at that sampling point. If a confirmation sample was not collected the public water system SHALL begin quarterly monitoring based on the level of the initial sample.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(H)(4)(a)	SHALL	If a confirmation sample was not collected the public water system SHALL begin quarterly monitoring based on the level of the initial sample.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(I)	SHALL	Each public water system SHALL monitor at the time designated by the director during each compliance period.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(J)	SHALL	Sample collection for antimony, arsenic, asbestos, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, nitrate, nitrite, selenium, and thallium under this rule SHALL be conducted using the sample preservation, container, and maximum holding time procedures specified in the following table:	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	J footnote 1	MUST	For cyanide determinations samples MUST be adjusted with sodium hydroxide to pH 12 at the time of collection. When chilling is indicated the samples MUST be shipped and stored at four degrees Celsius or less.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	J footnote 1	MUST	When chilling is indicated the samples MUST be shipped and stored at four degrees Celsius or less.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	J footnote 4	MUST	Instructions for containers, preservation, procedures, and holding time as specified in "Technical Notes" Method 100.2 (October 1994) MUST be adhered to for all compliance analyses including those conducted with "Technical Notes" Method 100.1 (October 1994). "Technical Notes" methods 100.1 and 100.2 are specified in paragraph (A) of rule 3745-81-27 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			

3745-81-23	(K)	SHALL	Analyses conducted to determine compliance with rule 3745-81-11 of the Administrative Code SHALL be performed in accordance with methods listed in paragraph (A) of rule 3745-81-27 of the Administrative Code and SHALL be performed in laboratories approved in accordance with Chapter 3745-89 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(K)	SHALL	Analyses conducted to determine compliance with rule 3745-81-11 of the Administrative Code SHALL be performed in accordance with methods listed in paragraph (A) of rule 3745-81-27 of the Administrative Code and SHALL be performed in laboratories approved in accordance with Chapter 3745-89 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)	SHALL	All community and nontransient noncommunity public water systems that treat their water with ozone SHALL monitor to determine compliance with the maximum contaminant level for bromate in rule 3745-81-11 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(1)	SHALL	Each public water system REQUIRED to monitor for bromate SHALL develop and implement a monitoring plan.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(1)	SHALL	This plan SHALL be maintained and made available for inspection by the director and the general public.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(1)	SHALL	All public water systems using surface water as a source and serving more than three thousand three hundred people SHALL submit a copy of the monitoring plan to the director no later than the date of the first report REQUIRED under rule 3745-81-75 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(1)	REQUIRE	The director may also REQUIRE any other public water system to submit such a plan.	6109.04	Federal REQUIRED	40 CFR 141.23			X
3745-81-23	(L)(1)	REQUIRE	After review, the director may REQUIRE changes in any plan elements.	6109.04	Federal REQUIRED	40 CFR 141.23			X
3745-81-23	(L)(1)	SHALL	The public water system SHALL modify the plan as REQUIRED by the director.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(1)	SHALL	The plan SHALL include at least the specific locations and schedules for collecting samples for bromate, and how the public water system will calculate compliance with the MCL for bromate.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(1)	MUST	If a public water system is approved for monitoring as a consecutive system, or provides water to a consecutive system, under the provisions of rule 3745-81-29 of the Administrative Code, its sampling plan MUST reflect the entire distribution system.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(2)	SHALL	Public water systems SHALL take all bromate samples during normal operating conditions	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(3)	SHALL	Routine monitoring for bromate SHALL be one sample per month for each treatment plant in the system using ozone. The sample SHALL be taken at the entrance to the distribution system while the ozonation system is operating under normal conditions.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(3)	SHALL	The sample SHALL be taken at the entrance to the distribution system while the ozonation system is operating under normal conditions.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(5)	MUST	If the running annual average bromate concentration is greater than 0.0025 mg/L, the system MUST resume routine monitoring REQUIRED by paragraph (L)(3) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(6)	SHALL	Compliance with the MCL for bromate SHALL be based on a running annual arithmetic average, computed quarterly, of monthly samples. For months in which the public water system takes more than one sample, the average of all samples taken during the month SHALL be used to compute the monthly average.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(6)	SHALL	These samples SHALL be collected as prescribed by paragraphs (L)(3) and (L)(5) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(7)	MUST	If the average of samples covering any consecutive four-quarter period exceeds the MCL, the public water system is in violation of the MCL and MUST notify the public according to rule 3745-81-32 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			

3745-81-23	(L)(8)	SHALL	All samples taken and analyzed under the provisions of paragraphs (L)(3) and (L)(5) of this rule SHALL be included in determining compliance, even if that number is greater than the minimum REQUIRED.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(L)(10)	SHALL	If a public water system fails to complete twelve consecutive months of monitoring, compliance with the MCL for the last four-quarter compliance period SHALL be based on an average of the available data.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)	SHALL	All community and nontransient noncommunity public water systems that treat their water with chlorine dioxide SHALL monitor to determine compliance with the maximum contaminant level for chlorite in rule 3745-81-11 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(1)	SHALL	Each public water system REQUIRED to monitor for chlorite SHALL develop and implement a monitoring plan.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(1)	SHALL	This plan SHALL be maintained and made available for inspection by the director and the general public.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(1)	SHALL	All public water systems using surface water as a source and serving more than three thousand three hundred people SHALL submit a copy of the monitoring plan to the director no later than the date of the first report REQUIRED under rule 3745-81-75 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(1)	REQUIRE	The director may also REQUIRE any other public water system to submit such a plan.	6109.04	Federal REQUIRED	40 CFR 141.23			X
3745-81-23	(M)(1)	REQUIRE	After review, the director may REQUIRE changes in any plan elements.	6109.04	Federal REQUIRED	40 CFR 141.23			X
3745-81-23	(M)(1)	SHALL	The public water systems SHALL modify the plan as REQUIRED by the director.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(1)	SHALL	The plan SHALL include at least the specific locations and schedules for collecting samples for chlorite, and how the public water system will calculate compliance with the MCL for chlorite. If a public water system is approved for monitoring as a consecutive system, or provides water to a consecutive system, under the provisions of rule 3745-81-29 of the Administrative Code, their sampling plan MUST reflect the entire distribution system.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(1)	MUST	If a public water system is approved for monitoring as a consecutive system, or provides water to a consecutive system, under the provisions of rule 3745-81-29 of the Administrative Code, their sampling plan MUST reflect the entire distribution system.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(2)	SHALL	Public water systems SHALL take all chlorite samples during normal operating conditions.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(3)	SHALL	Routine daily monitoring: public water systems SHALL take daily chlorite samples at the entrance to the distribution system.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(3)	SHALL	For any daily sample that exceeds the chlorite MCL, the system SHALL take additional samples in the distribution system the following day at the locations REQUIRED by paragraph (M)(5) of this rule, in addition to the sample REQUIRED at the entrance to the distribution system.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(4)	SHALL	Routine monthly monitoring: public water systems SHALL take a threesample set each month in the distribution system.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(4)	SHALL	The system SHALL take one sample for chlorite at each of the following locations: near the first customer, at a location representative of average residence time, and at a location reflecting maximum residence time of the water in the distribution system	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(4)	SHALL	Any additional distribution system sampling SHALL be conducted in the same manner (as three-sample sets, at the specified locations).	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(5)	SHALL	Samples SHALL be taken at the following locations: near the first customer, at a location representative of average residence time, and at a location reflecting maximum residence time in the distribution system.	6109.04	Federal REQUIRED	40 CFR 141.23			

3745-81-23	(M)(6)	MAY NOT	Chlorite monitoring at the entrance to the distribution system REQUIRED by paragraph (M)(3) of this rule MAY NOT be reduced.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(9)	SHALL	The public water system may remain on the reduced monitoring schedule until either any of the three individual chlorite samples taken quarterly in the distribution system under paragraph (M)(8) of this rule exceeds the chlorite MCL or the system is REQUIRED to conduct monitoring under paragraph (M)(5) of this rule, at which time the system MUST revert to routine monitoring.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(10)	SHALL	Compliance with the MCL for chlorite SHALL be based on an arithmetic average of each three-sample set taken in the distribution system as prescribed by paragraphs (M)(4) and (M)(5) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(10)	SHALL	All samples taken and analyzed under the provisions of paragraphs (M)(4) and (M)(5) of this rule SHALL be included in determining compliance, even if that number is greater than the minimum REQUIRED.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-23	(M)(10)	MUST	If the arithmetic average of any three-sample set exceeds the MCL, the system is in violation of the MCL and MUST notify the public according to rule 3745-81-32 of the Administrative Code, in addition to reporting to the director according to rule 3745-81-75 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-24	Intro	SHALL	Analytical procedures which are acceptable for monitoring for organic contaminants in drinking water are listed in rule 3745-81-27 of the Administrative Code. Analyses under this rule SHALL only be conducted by laboratories that are certified for these analyses under Chapter 3745-89 of the Administrative Code	6109.04	Federal REQUIRED	40 CFR 141.23			
3745-81-24	Intro	SHALL	Community public water systems and nontransient noncommunity public water systems SHALL monitor for organic chemicals according to a schedule provided by the director.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)	SHALL	Monitoring for volatile organic chemicals with maximum contaminant levels (MCLs) listed in paragraph (D) of rule 3745-81-12 of the Administrative Code SHALL be conducted by community public water systems and nontransient noncommunity public water systems as follows:	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(1)	SHALL	Groundwater systems SHALL monitor with a minimum of one sample at each respective sampling point during each compliance period.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(1)	SHALL	Surface water systems SHALL monitor with a minimum of one sample annually at each sampling point.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(1)	SHALL	After the first set of samples, each repeat sample SHALL be taken at the same sampling point as used before unless conditions make another sampling point more representative of a source, treatment plant, or part of the distribution system.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(2)	SHALL	If a public water system draws water from more than one source and the sources are combined before distribution, the public water system SHALL monitor at each sampling point during periods of normal operating conditions and SHALL keep a record of and report the sources providing water for each sample.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(2)	SHALL	If a public water system draws water from more than one source and the sources are combined before distribution, the public water system SHALL monitor at each sampling point during periods of normal operating conditions and SHALL keep a record of and report the sources providing water for each sample.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(2)	SHALL	When a sample does not contain water from all the sources which serve the sampling point, the public water system SHALL prepare and follow a schedule such that the next monitoring sample at this sampling point for the same volatile organic chemicals will include water from sources not included in the previous sample or samples.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(2)	SHALL	Thus, successive samples from the same sampling point for the same volatile organic chemicals SHALL sample water supplied from different sources until all the sources supplying that sampling point have been monitored	6109.04	Federal REQUIRED	40 CFR 141.24			

3745-81-24	(A)(3)	SHALL	Each new community and new nontransient noncommunity public water system and public water systems that use a new source of water SHALL monitor initially with four consecutive quarterly samples for each contaminant listed in paragraph (D) of rule 3745-81-12 of the Administrative Code beginning in the first quarter of the next calendar year after operation of the new source of system begins.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(3)	SHALL	New public water systems SHALL sample at each sampling point; systems with a new source of water SHALL sample at the sampling point related to the new source.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(3)	SHALL	New public water systems SHALL sample at each sampling point; systems with a new source of water SHALL sample at the sampling point related to the new source.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(4)	SHALL	If the initial monitoring for the contaminants listed in paragraph (D) of rule 3745-81-12 of the Administrative Code has been completed and the public water system did not detect any contaminant listed in paragraph (D) of rule 3745-81-12 of the Administrative Code, then the public water system SHALL monitor with one sample annually	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(4)	SHALL	For any contaminant detected during the initial monitoring, the public water system SHALL continue quarterly monitoring until eligible for a reduction under paragraph (A)(6)(b) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(6)(a)	SHALL	The public water system SHALL monitor quarterly at each sampling point which resulted in a detection.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(6)(b)	SHALL	In no case SHALL the director make this determination unless a groundwater system has monitored with a minimum of two consecutive quarterly samples and a surface water system has monitored with a minimum of four consecutive quarterly samples.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(6)(c)	SHALL	Public water systems which monitor annually for a previously detected contaminant SHALL monitor during the quarter(s) which previously yielded the highest analytical result.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(7)	SHALL	If a confirmation sample is REQUIRED by the director, the result SHALL be averaged with the first sampling result and the average used for the compliance determination as specified by paragraph (A)(8) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(7)	REQUIRE	The director may REQUIRE a confirmation sample for positive or negative results	6109.04	Federal REQUIRED	40 CFR 141.24			X
3745-81-24	(A)(8)	SHALL	Compliance with paragraph (D) of rule 3745-81-12 of the Administrative Code SHALL be determined based on the analytical results obtained at each sampling point.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(8)(a)	SHALL	Any samples below the detection limit SHALL be counted as zero for purposes of determining the running annual average.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(8)(b)	SHALL	For public water systems monitoring annually or less frequently, when the average of a result and a REQUIRED confirmation sample exceeds eighty per cent of the MCL, the public water system SHALL begin quarterly monitoring at that sample point.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(8)(b)	SHALL	If a confirmation sample was not collected, the public water system SHALL begin quarterly monitoring if the level of the initial sample exceeds eighty per cent of the MCL.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(9)	SHALL	Analysis for the contaminants listed in paragraph (D) of rule 3745-81-12 of the Administrative Code SHALL be conducted using the methods in rule 3745-81-27 of the Administrative Code	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(10)	SHALL	Analysis under this rule SHALL only be conducted by laboratories that are approved under Chapter 3745-89 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(A)(13)	SHALL	Each approved laboratory SHALL determine the method detection limit (MDL), as defined in the appendix to rule 3745-89-03 of the Administrative Code, at which it is capable of detecting volatile organic chemicals.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)	SHALL	Monitoring of the organic chemical contaminants with maximum contaminant levels listed in paragraph (E) of rule 3745-81-12 of the Administrative Code SHALL be conducted by community public water systems and nontransient noncommunity public water systems as described below.	6109.04	Federal REQUIRED	40 CFR 141.24			

3745-81-24	(B)(1)	SHALL	Groundwater systems and surface water systems SHALL monitor with a minimum of one sample at each sampling point each time monitoring is REQUIRED in paragraph (B) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(1)	SHALL	After the initial set of samples, each sample SHALL be taken at the same sampling point as used before unless conditions make another sampling point more representative of a source or treatment plant.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(2)	SHALL	If the public water system draws water from more than one source and the sources are combined before distribution, the public water system SHALL monitor at each sampling point during periods of normal operating conditions and SHALL keep a record of and report the sources providing water for each sample.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(2)	SHALL	If the public water system draws water from more than one source and the sources are combined before distribution, the public water system SHALL monitor at each sampling point during periods of normal operating conditions and SHALL keep a record of and report the sources providing water for each sample.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(2)	SHALL	When a sample does not contain water from all the sources which serve the sampling point, a schedule prepared by the public water system SHALL be followed so that the next monitoring sample at this sampling point for the same organic chemical(s) will include water from sources not included in the previous sample or samples.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(2)	SHALL	Thus, successive samples from the same sampling point for the same organic chemical(s) SHALL sample water supplied from different sources until all the sources supplying that sampling point have been monitored.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(3)(a)	SHALL	Each community public water system and nontransient noncommunity public water system SHALL monitor with four consecutive quarterly samples at each sampling point for each organic chemical contaminant listed in paragraph (E) of rule 3745-81-12 of the Administrative Code during each compliance period.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(3)(d)	SHALL	Public water systems that use a new source of water and new public water systems SHALL begin initial quarterly monitoring for each contaminant listed in paragraph (E) of rule 3745-81-12 of the Administrative Code in a quarter designated by the director during the next calendar year after operation of the new source or system begins.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(3)(d)	SHALL	New public water systems SHALL sample at each sampling point.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(3)(d)	SHALL	Public water systems with a new source of water SHALL sample at the sampling point related to the new source.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(5)	SHALL	If the contaminant has been used previously or if its previous use is unknown, then the following factors SHALL be used to determine whether a waiver is granted.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(6)(a)	SHALL	Each public water system SHALL monitor quarterly at each sampling point which resulted in a detection.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(6)(b)	SHALL	In no case SHALL the director make this determination unless a groundwater system takes a minimum of two quarterly samples and a surface water system takes a minimum of four quarterly samples.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(6)(c)	SHALL	Public water systems which monitor annually SHALL monitor during the quarter that previously yielded the highest analytical result.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(6)(e)	SHALL	If monitoring results in detection of one or more of certain related contaminants (heptachlor, heptachlor epoxide), then subsequent monitoring SHALL analyze for all related contaminants.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-24	(B)(7)	SHALL	If a confirmation sample is REQUIRED by the director, the result SHALL be averaged with the first monitoring result and the average used for the compliance determination as specified by paragraph (B)(8) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.24			

3745-81-24	(B)(7)	REQUIRE	The director may REQUIRE a confirmation sample for positive or negative results	6109.04	Federal REQUIRED	40 CFR 141.24				x
3745-81-24	(B)(8)	SHALL	Compliance with paragraph (E) of rule 3745-81-12 of the Administrative Code SHALL be determined based on the analytical results obtained at each sampling point.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(8)(a)	SHALL	Any results below the detection limit SHALL be calculated as zero for purposes of determining the running annual average.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(8)(b)	SHALL	For public water systems monitoring annually or less frequently, when the average of a result and a confirmation sample exceeds eighty per cent of the MCL the public water system SHALL begin quarterly monitoring at that sample point.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(8)(b)	SHALL	For public water systems monitoring annually or less frequently, when the average of a result and a confirmation sample exceeds eighty per cent of the MCL the public water system SHALL begin quarterly monitoring at that sample point.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(8)(b)	SHALL	If a confirmation sample was not collected, the public water system SHALL begin quarterly monitoring if the level of the initial sample exceeds eighty percent of the MCL.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(9)	SHALL	Analysis for the organic chemical contaminants listed in paragraph (E) of rule 3745-81-12 of the Administrative Code SHALL be conducted by using methods set forth in rule 3745-81-27 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(10)	SHALL	Analysis for polychlorinated biphenyls SHALL be conducted as follows:	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(10)(a)	SHALL	Each public water system which monitors for polychlorinated biphenyls SHALL analyze or have analyzed each sample using a technique set forth in rule 3745-81-27 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(10)(b)	SHALL	If polychlorinated biphenyls (as one of seven aroclors) are detected (as designated in this paragraph) in any sample analyzed using a technique set forth in rule 3745-81-27 of the Administrative Code, the sample SHALL be reanalyzed using a technique set forth in rule 3745-81-27 of the Administrative Code to quantitate polychlorinated biphenyls (as decachlorobiphenyl).	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(10)(c)	SHALL	Compliance with the MCL for polychlorinated biphenyls SHALL be determined based upon the quantitative results of analyses using a technique set forth in rule 3745-81-27 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(13)	SHALL	Each public water system SHALL monitor at the time designated by the director within each compliance period.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(B)(14)	SHALL	Detection as used in this rule SHALL be defined as greater than or equal to the following concentration for each contaminant.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(1)	SHALL	Community public water systems and nontransient noncommunity public water systems that treat their water with any combination of primary or residual disinfectant, other than ultraviolet light, or delivers water that has been treated with any combination of primary or residual disinfectant, other than ultraviolet light, SHALL monitor for TTHM and HAA5 according to paragraph (C) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(2)	SHALL	For public water systems REQUIRED to conduct quarterly monitoring, compliance with MCLs for TTHMs and HAA5 SHALL be based on a locational running annual arithmetic average at each monitoring location, calculated quarterly, at the end of the fourth calendar quarter following the compliance date and at the end of each subsequent quarter (or earlier if the LRAA calculated based on fewer than four quarters of data would cause the MCL to be exceeded regardless of the monitoring results of subsequent quarters).	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(2)	MUST	For public water systems monitoring quarterly, if the system fails to complete four consecutive quarters of monitoring, compliance with the MCL for the last four quarter compliance period MUST be based on the average of the available data from the most recent four quarters.	6109.04	Federal REQUIRED	40 CFR 141.24				

3745-81-24	(C)(3)		If the public water system is REQUIRED to conduct monitoring at a frequency that is less than quarterly, compliance with MCLs SHALL be based on the LRAA calculations beginning with the first compliance sample taken after the compliance date.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(3)	MUST	If any sample result exceeds the MCL, the public water system MUST comply with the REQUIREments of paragraphs (C)(18) to (C)(20) of this rule	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(4)	MUST	If a public water system takes more than one sample per quarter at a monitoring location, the average of all samples taken in the quarter at that location MUST be used to determine a quarterly average to be used in the LRAA calculation.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(5)	SHALL	Public water systems SHALL take all samples during normal operating conditions.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(6)		Routine monitoring for TTHMs and HAA5: Public water systems are REQUIRED to begin monitoring at the locations and the time period identified in the sample monitoring plan developed under paragraph (C)(9) of this rule. Public water systems specified in paragraph (C)(1) of this rule SHALL monitor at the frequency indicated and at no fewer than the number of locations identified in the following table:	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(6) Table Footnot	MUST	All systems MUST monitor during month of highest DBP concentrations	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(6) Table Footnot	MUST	Systems on quarterly monitoring MUST take dual sample sets every 90 days at each monitoring location except for surface water systems serving 500-3,300.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(6) Table Footnot	MUST	Ground water systems serving 500-9,999 on annual monitoring MUST take dual sample sets at each monitoring location.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(8)	MUST	If a system that does not disinfect begins using a disinfectant other than UV light, the system MUST consult with the director to identify compliance monitoring locations and develop a monitoring plan under paragraph (C)(9) of this rule that includes those monitoring locations.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(9)	SHALL	Each public water system REQUIRED to monitor for TTHM and HAA5 SHALL develop and implement a sample monitoring plan.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(9)	SHALL	The public water system SHALL maintain the plan and make it available for inspection by the director and the general public.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(9)	MUST	The monitoring plan MUST contain the following elements: monitoring locations (including both a location address and sample monitoring point code); monitoring dates; and alternate monitoring locations (in the event access to a primary location is not available).	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(10)	MUST	Monitoring locations MUST be chosen by alternating selection of locations representing high TTHM levels and high HAA5 levels until the REQUIRED number of compliance monitoring locations have been identified.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(10)	MUST	Public water systems MUST also provide the rationale for identifying the locations as having high levels of TTHM or HAA5.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(10)	MUST	If a public water system has more monitoring locations than REQUIRED for compliance monitoring according to paragraph (C) of this rule, systems MUST identify which locations will be used for compliance monitoring by alternating selection of locations representing high TTHM levels and high HAA5 levels until the REQUIRED number of compliance monitoring locations have been identified.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(11)	MUST	All surface water systems MUST submit a copy of the monitoring plan to the director.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(11)	REQUIRE	The director may REQUIRE new community and non-transient noncommunity water systems that treat their water with any combination of primary or residual disinfectant, other than ultraviolet light, or deliver water that has been treated with any combination of primary or residual disinfectant, other than ultraviolet light to develop and submit a sample monitoring plan within twelve months of becoming active.	6109.04	Federal REQUIRED	40 CFR 141.24				x

3745-81-24	(C)(12)	REQUIRE	The director may also REQUIRE modifications in the monitoring plan.	6109.04	Federal REQUIRED	40 CFR 141.24				x
3745-81-24	(C)(12)	MUST	If a system changes monitoring locations, the locations MUST replace existing compliance monitoring locations with the lowest LRAA with new locations that reflect the current distribution system locations with expected high TTHM or HAA5 levels.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(12)	MUST	Surface water systems MUST submit a copy of the modified monitoring plan to the director prior to the date REQUIRED to comply with the revised monitoring plan.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(13)	MUST	Systems may only use data collected under the provisions of paragraph (C) of this rule to qualify for reduced monitoring. In addition, the source water annual average TOC level, before any treatment, MUST be less than or equal to 4.0 mg/L at each treatment plant treating surface water, based on monitoring conducted under rule 3745-81-77 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(13) table row 3	MAY NOT	Monitoring MAY NOT be reduced	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(13) table footnote	MUST	Systems on quarterly monitoring MUST take dual sample sets every 90 days.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(14)	MUST	In addition, the source water annual average TOC level, before any treatment, MUST be less than or equal to 4.0 mg/L at each treatment plant treating surface water, based on monitoring conducted under rule 3745-81-77 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(15)	MUST	If the LRAA based on quarterly monitoring at any monitoring location exceeds either 0.040 mg/L for TTHM or 0.030 mg/L for HAA5 or if the annual (or less frequent) sample at any location exceeds either 0.060 mg/L for TTHM or 0.045 mg/L for HAA5, or if the source water annual average TOC level, before any treatment, greater than 4.0 mg/L at any treatment plant treating surface water, the system MUST resume routine monitoring under paragraph (C)(6) of this rule or begin increased monitoring if paragraph (C)(18) of this rule applies.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(17)	MUST	Consecutive systems that do not add a disinfectant but deliver water that has been treated with a primary or residual disinfectant other than ultraviolet light, MUST comply with analytical, monitoring, and compliance REQUIREments for chlorine and chloramines in rules 3745-81-27 and 3745-81-70 of the Administrative Code and report monitoring results under paragraph (G)(4) of rule 3745-81-75 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(18)	MUST	If a public water system is REQUIRED to monitor at a particular location annually or less frequently than annually under paragraph (C)(6) or (C)(13) of this rule, the system MUST increase monitoring to dual sample sets once per quarter (taken every ninety days) at all locations if a TTHM sample is greater than 0.080 mg/L or a HAA5 sample is greater than 0.060 mg/L at any location.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(21)(a)	MUST	If a public water system exceeds the operational evaluation level, the system MUST conduct an operational evaluation and submit a written report of the evaluation to the director no later than ninety days after being notified by the director of the analytical result that causes the system to exceed the operational evaluation level	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(21)(a)	MUST	The written report MUST be made available to the public upon request.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(21)(b)	MUST	The public water system's operational evaluation MUST include an examination of system treatment and distribution operational practices, including storage tank operations, excess storage capacity, distribution system flushing, changes in sources or source water quality, and treatment changes or problems that may contribute to TTHM and HAA5 formation and what steps could be considered to minimize future exceedences.	6109.04	Federal REQUIRED	40 CFR 141.24				
3745-81-24	(C)(21)(d)	MUST	The director MUST approve this limited scope of evaluation in writing and the system MUST keep that approval with the completed report.	6109.04	Federal REQUIRED	40 CFR 141.24				

3745-81-24	(C)(21)(d)	MUST	The director MUST approve this limited scope of evaluation in writing and the system MUST keep that approval with the completed report.	6109.04	Federal REQUIRED	40 CFR 141.24			
3745-81-26	Intro	SHALL	Community public water systems SHALL monitor as described in this rule to determine compliance with the maximum contaminant levels (MCLs) for radionuclides listed in rule 3745-81-15 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.26			
3745-81-26	Intro	SHALL	Community public water systems SHALL monitor for radionuclide contaminants according to a schedule provided by the director.	6109.04	Federal REQUIRED	41 CFR 141.26			
3745-81-26	(A)(2)	SHALL	All existing community public water systems SHALL sample at every sampling point that is representative of all sources being used under normal operating conditions for that sampling point.	6109.04	Federal REQUIRED	42 CFR 141.26			
3745-81-26	(A)(2)	SHALL	The system SHALL take each sample at the same sampling point unless the director determines that conditions make another sampling location more representative of each source.	6109.04	Federal REQUIRED	43 CFR 141.26			
3745-81-26	(A)(3)	SHALL	All new community public water systems or community public water systems that use a new source of water SHALL begin initial monitoring within the first quarter after initiating use of the source.	6109.04	Federal REQUIRED	44 CFR 141.26			
3745-81-26	(A)(4)	SHALL	Systems SHALL conduct initial monitoring for gross alpha particle activity, radium-226, radium-228, and uranium as follows:	6109.04	Federal REQUIRED	45 CFR 141.26			
3745-81-26	(A)(4)(a)	SHALL	Systems SHALL collect four consecutive quarterly samples at all sampling points.	6109.04	Federal REQUIRED	46 CFR 141.26			
3745-81-26	(A)(5)	SHALL	If the average of the initial monitoring results for a sampling point is above the maximum contaminant level (MCL), the community public water system SHALL collect and analyze quarterly samples at that sampling point until the system has results from four consecutive quarters that are at or below the MCL.	6109.04	Federal REQUIRED	47 CFR 141.26			
3745-81-26	(A)(6)(a)	SHALL	If the average of the initial monitoring results for each contaminant (i.e., gross alpha particle activity, uranium, radium-226, or radium-228) is below the detection limit specified in paragraph (D) of this rule, the community public system SHALL collect and analyze for that contaminant using at least one sample at that sampling point every nine years.	6109.04	Federal REQUIRED	48 CFR 141.26			
3745-81-26	(A)(6)(b)	SHALL	For gross alpha particle activity and uranium, if the average of the initial monitoring results for each contaminant is at or above the detection limit but at or below fifty per cent of the MCL, the community public water system SHALL collect and analyze for that contaminant using at least one sample at that sampling point every six years.	6109.04	Federal REQUIRED	49 CFR 141.26			
3745-81-26	(A)(6)(b)	SHALL	For combined radium-226 and radium-228, the analytical results SHALL be combined.	6109.04	Federal REQUIRED	50 CFR 141.26			
3745-81-26	(A)(6)(b)	SHALL	If the average of the combined initial monitoring results for radium-226 and radium-228 is at or above the detection limit but at or below fifty per cent of the MCL, the community public water system SHALL collect and analyze for the contaminant(s) using at least one sample at that sample point every six years.	6109.04	Federal REQUIRED	51 CFR 141.26			
3745-81-26	(A)(6)(c)	SHALL	For gross alpha particle activity and uranium, if the average of the initial monitoring results for each contaminant is above fifty per cent of the MCL but at or below the MCL, the community public water system SHALL collect and analyze at least one sample at that sampling point every three years.	6109.04	Federal REQUIRED	52 CFR 141.26			
3745-81-26	(A)(6)(c)	SHALL	For combined radium-226 and radium-228, the analytical results SHALL be combined.	6109.04	Federal REQUIRED	53 CFR 141.26			
3745-81-26	(A)(6)(c)	SHALL	If the average of the combined initial monitoring results for radium-226 and radium-228 is above fifty per cent of the MCL but at or below the MCL, the community public water system SHALL collect and analyze at least one sample at that sampling point every three years.	6109.04	Federal REQUIRED	54 CFR 141.26			
3745-81-26	(A)(6)(d)	SHALL	Community public water systems SHALL use the samples collected during the reduced monitoring period to determine the monitoring frequency for subsequent monitoring periods (e.g., if a system's sampling point is on a nine year monitoring period, and the sample result is above fifty per cent of MCL but at or below the MCL, then the next monitoring period for that sampling point is at least one sample every three years.)	6109.04	Federal REQUIRED	55 CFR 141.26			

3745-81-26	(A)(6)(e)	SHALL	If a community public water system has a monitoring result that exceeds the MCL while on reduced monitoring, the system SHALL collect and analyze quarterly samples at that sampling point until the system has results from four consecutive quarters that are at or below the MCL.	6109.04	Federal REQUIRED	56 CFR 141.26			
3745-81-26	(A)(7)	SHALL	The gross alpha measurement SHALL have a confidence interval of ninety-five per cent (1.96 sigma where sigma is the standard deviation of the net counting rate of the sample) for radium-226 and uranium	6109.04	Federal REQUIRED	57 CFR 141.26			
3745-81-26	(B)(1)	SHALL	Community public water systems designated by the director as vulnerable SHALL sample for beta particle and photon radioactivity to determine compliance with the maximum contaminant levels listed in rule 3745-81-15 as follows:	6109.04	Federal REQUIRED	58 CFR 141.26			
3745-81-26	(B)(1)(a)	SHALL	Community public water systems SHALL collect quarterly samples for beta emitters and annual samples for tritium and strontium-90 at each sampling point, beginning within one quarter after being notified by the director.	6109.04	Federal REQUIRED	59 CFR 141.26			
3745-81-26	(B)(1)(a)	SHALL	Systems designated as vulnerable SHALL continue to sample until the director removes the designation.	6109.04	Federal REQUIRED	60 CFR 141.26			
3745-81-26	(B)(1)(b)	SHALL	Systems SHALL collect all samples REQUIRED in paragraph (B)(1)(a) of this rule during the reduced monitoring period.	6109.04	Federal REQUIRED	61 CFR 141.26			
3745-81-26	(B)(2)	SHALL	Community public water systems designated by the director as utilizing waters contaminated by effluents from nuclear facilities SHALL sample for beta particle and photon radioactivity to determine compliance with the MCLs listed in rule 3745-81-15 of the Administrative Code as follows:	6109.04	Federal REQUIRED	62 CFR 141.26			
3745-81-26	(B)(2)(a)	SHALL	Community public water systems SHALL collect monthly samples for gross beta particle activity and quarterly samples for iodine-131, tritium, and strontium-90 at each sampling point, beginning within one quarter after being notified in writing by the director	6109.04	Federal REQUIRED	63 CFR 141.26			
3745-81-26	(B)(2)(a)	SHALL	For iodine-131, five consecutive daily samples SHALL be analyzed once each quarter.	6109.04	Federal REQUIRED	64 CFR 141.26			
3745-81-26	(B)(2)(a)	SHALL	As ordered by the director, more frequent monitoring SHALL be conducted when iodine-131 is identified in the finished water.	6109.04	Federal REQUIRED	65 CFR 141.26			
3745-81-26	(B)(2)(a)	SHALL	Systems designated by the director as using waters contaminated by effluents from nuclear facilities SHALL continue to sample until the director removes the designation	6109.04	Federal REQUIRED	66 CFR 141.26			
3745-81-26	(B)(2)(b)	SHALL	Community public water systems SHALL collect all samples REQUIRED in paragraph (B)(2)(a) of this rule during the reduced monitoring period.	6109.04	Federal REQUIRED	67 CFR 141.26			
3745-81-26	(B)(3)	SHALL	A waiver from the monitoring frequencies specified in paragraph (B)(1) or (B)(2) of this rule SHALL not be granted to community public water systems designated by the director as vulnerable to beta particle and photon radioactivity contamination.	6109.04	Federal REQUIRED	68 CFR 141.26			
3745-81-26	(B)(4)	SHALL	The potassium-40 beta particle activity SHALL be calculated by multiplying elemental potassium concentrations (in mg/L) by a factor of 0.82 picocuries of potassium-40 per milligram of potassium.	6109.04	Federal REQUIRED	69 CFR 141.26			
3745-81-26	(B)(5)	SHALL	If the gross beta particle activity (minus the naturally occurring potassium-40 beta particle activity) exceeds the appropriate screening level, an analysis of the sample SHALL be performed to identify the major applicable radioactive constituents present in the sample and the appropriate doses SHALL be calculated and summed to determine compliance with the MCLs listed in rule 3745-81-15 of the Administrative Code.	6109.04	Federal REQUIRED	70 CFR 141.26			
3745-81-26	(B)(5)	SHALL	If the gross beta particle activity (minus the naturally occurring potassium-40 beta particle activity) exceeds the appropriate screening level, an analysis of the sample SHALL be performed to identify the major applicable radioactive constituents present in the sample and the appropriate doses SHALL be calculated and summed to determine compliance with the MCLs listed in rule 3745-81-15 of the Administrative Code.	6109.04	Federal REQUIRED	71 CFR 141.26			
3745-81-26	(B)(5)	SHALL	Doses SHALL also be calculated and combined for measured levels of tritium and strontium to determine compliance.	6109.04	Federal REQUIRED	72 CFR 141.26			

3745-81-26	(B)(6)	SHALL	Community public water systems SHALL monitor monthly at the sampling point(s) which exceed the MCLs as determined in rule 3745-81-15 of the Administrative Code beginning the month after the exceedance occurs. Systems SHALL continue monthly monitoring until the system has established, by a running average of three monthly samples, that the MCL is being met. Systems who establish that the MCL is being met SHALL return to quarterly monitoring until they meet the REQUIREments set forth in paragraph (B)(1)(b) or (B)(2)(b) of this rule.	6109.04	Federal REQUIRED	73 CFR 141.26			
3745-81-26	(B)(6)	SHALL	Community public water systems SHALL monitor monthly at the sampling point(s) which exceed the MCLs as determined in rule 3745-81-15 of the Administrative Code beginning the month after the exceedance occurs. Systems SHALL continue monthly monitoring until the system has established, by a running average of three monthly samples, that the MCL is being met. Systems who establish that the MCL is being met SHALL return to quarterly monitoring until they meet the REQUIREments set forth in paragraph (B)(1)(b) or (B)(2)(b) of this rule.	6109.04	Federal REQUIRED	74 CFR 141.26			
3745-81-26	(B)(6)	SHALL	Community public water systems SHALL monitor monthly at the sampling point(s) which exceed the MCLs as determined in rule 3745-81-15 of the Administrative Code beginning the month after the exceedance occurs. Systems SHALL continue monthly monitoring until the system has established, by a running average of three monthly samples, that the MCL is being met. Systems who establish that the MCL is being met SHALL return to quarterly monitoring until they meet the REQUIREments set forth in paragraph (B)(1)(b) or (B)(2)(b) of this rule.	6109.04	Federal REQUIRED	75 CFR 141.26			
3745-81-26	(B)(7)	SHALL	In the event that there is a release from a nuclear facility, community public water systems which are using surveillance data SHALL begin monitoring at the system's sampling point(s) in accordance with paragraph (B)(1) or (B)(2) of this rule.	6109.04	Federal REQUIRED	76 CFR 141.26			
3745-81-26	(C)(1)	REQUIRE	The director may REQUIRE more frequent monitoring than specified in paragraphs (A) and (B) of this rule, or may REQUIRE confirmation samples.	6109.04	Federal REQUIRED	77 CFR 141.26			X
3745-81-26	(C)(1)	REQUIRE	The director may REQUIRE more frequent monitoring than specified in paragraphs (A) and (B) of this rule, or may REQUIRE confirmation samples.	6109.04	Federal REQUIRED	78 CFR 141.26			X
3745-81-26	(C)(2)	SHALL	To determine compliance with the MCLs listed in rule 3745-81-15 of the Administrative Code, averages of data SHALL be used and SHALL be rounded to the same number of significant figures as the maximum contaminant level for the substance in question.	6109.04	Federal REQUIRED	79 CFR 141.26			
3745-81-26	(C)(2)	SHALL	To determine compliance with the MCLs listed in rule 3745-81-15 of the Administrative Code, averages of data SHALL be used and SHALL be rounded to the same number of significant figures as the maximum contaminant level for the substance in question.	6109.04	Federal REQUIRED	80 CFR 141.26			
3745-81-26	(C)(3)(c)	SHALL	Community public water systems SHALL include all samples taken and analyzed under the provisions of this rule in determining compliance, even if that number is greater than the minimum REQUIRED.	6109.04	Federal REQUIRED	81 CFR 141.26			
3745-81-26	(C)(5)	SHALL	If a MCL set forth in rule 3745-81-15 of the Administrative Code is exceeded, the owner or operator of a community water system SHALL give notice to the director pursuant to rule 3745-81-31 of the Administrative Code and to the public as REQUIRED by rule 3745-81-32 of the Administrative Code.	6109.04	Federal REQUIRED	82 CFR 141.26			
3745-81-26	(D)(1)	SHALL	The detection limit SHALL be that concentration which can be counted with a precision of plus or minus one hundred per cent at the ninety-five per cent confidence level (1.96 sigma where sigma is the standard deviation of the net counting rate of the sample).	6109.04	Federal REQUIRED	83 CFR 141.26			
3745-81-26	(D)(2)	SHALL	To determine compliance with rule 3745-81-15 of the Administrative Code, the detection limits SHALL not exceed the concentrations listed in the following table:	6109.04	Federal REQUIRED	84 CFR 141.26			
3745-81-27	A	SHALL	Inorganic chemical analyses conducted to determine compliance with rules 3745-81-11, 3745-81-23, 3745-81-80 to 3745-81-86, 3745-81-88, and 3745-83-01 of the Administrative Code SHALL be performed by a laboratory certified by the director pursuant to Chapter 3745-89 of the Administrative Code unless otherwise specified and SHALL be made in accordance with methods listed in this rule for the chemicals being analyzed.	6109.03, 6109.04	Federal REQUIRED	40 CFR § 142.10, 141.23	X		

3745-81-27	7	SHALL	Inorganic chemical analyses REQUIRED by rule 3745-81-87 of the Administrative Code also SHALL be made in accordance with methods listed in this rule for the chemicals being analyzed but do not REQUIRE that the laboratory be certified pursuant to Chapter 3745-89 of the Administrative Code	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.23	X		
3745-81-27	7	SHALL	EPA method 317.0 Rev. 2.0, 326.0 Rev. 1.0 or 321.8 SHALL be used to qualify for reduced monitoring according to paragraph (L)(5) of rule 3745-81-23 of the Administrative Code,	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.23	X		
3745-81-27	12	SHALL	This analysis SHALL be performed by persons acceptable to the director. "ChlordioX Plus, Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Senosrs. EPA method 300.0 Rev. 2.1 or 300.1 Rev. 1.0 or 317.0 Rev. 2.0 or 326.0 Rev. 1.0 SHALL be used for routine monthly monitoring of chlorite and additional monitoring of chlorite in the distribution system. This analysis SHALL be performed by a laboratory certified by the director according to Chapter 3745-89 of the Administrative Code	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.23	X		
3745-81-27	B	SHALL	Organic chemical sampling and analyses, as REQUIRED by rule 3745-81-24 of the Administrative Code, SHALL use the following procedures. Analyses SHALL be performed by a laboratory certified by the director pursuant to Chapter 3745-89 of the Administrative Code. Procedures for many of these specified organic chemical analyses are included in manuals prepared by the "Environmental Monitoring Systems Laboratory-Cincinnati of the United States Environmental Protection Agency (USEPA)."	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.24	X		
3745-81-27	B(1)	SHALL	Sampling and analyses for total trihalomethanes made to determine compliance with rules 3745-81-12 and 3745-81-24 of the Administrative Code SHALL be conducted by a method listed in paragraphs (B)(1)(a) to (B)(1)(c) of this rule. Samples for total trihalomethanes SHALL be dechlorinated upon collection to prevent further production of trihalomethanes, according to the procedures described in the following methods.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.24	X		
3745-81-27	B(2)	SHALL	Sampling and analysis for haloacetic acids (five) made to determine compliance with rules 3745-81-12 and 3745-81-24 of the Administrative Code SHALL be conducted by one of the following methods:	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.24	X		
3745-81-27	B(3)	SHALL	Organic chemical analyses REQUIRED by rule 3745-81-24 of the Administrative Code SHALL be conducted using the following United States environmental protection agency methods or	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.24	X		
3745-81-27	B(4)	SHALL	Organic chemical analyses REQUIRED in rule 3745-81-24 of the Administrative Code SHALL be conducted using the following approved methods:	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.24	X		
3745-81-27		SHALL	When any aroclor (PCB) listed in rule 3745-81-24 of the Administrative Code is found to be present in a concentration of 0.0001 milligram per liter or more, the sample SHALL be reanalyzed by method 508A to provide quantitative results for polychlorinated byphenyl concentrations	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.24	X		
3745-81-27	B(4)(e)	SHALL	When any aroclor (PCB) listed in rule 3745-81-24 of the Administrative Code is found to be present in a concentration of 0.0001 milligram per liter or more, the sample SHALL be reanalyzed by method 508A to provide quantitative results for polychlorinated biphenyl concentrations in the water sample.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.24	X		
3745-81-27	C	SHALL	Analyses conducted to determine compliance with rules 3745-81-10, 3745-81-43, 3745-81-70 to 3745-81-74, and 3745-83-01 of the Administrative Code SHALL use the following methods	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.74	X		
3745-81-27	C(1)	SHALL	Residual disinfectant concentrations SHALL be analyzed by the following methods from "Standard Methods", subject to some corrections published in "Technical Notes" (6109.03, 6109.04	Federal REQUIRED	40 CFR 141.74	X		
3745-81-27	C(1)(a)	SHALL	Residual disinfectant concentrations for free chlorine and combined chlorine (chloramines) SHALL be measured by persons acceptable to the director. Residual disinfectant concentrations SHALL be measured by a method in section 4500-Cl D. It SHALL also have a digital display of the result. DPD colorimetric test kits with an analog display are not acceptable for use. An acceptable DPD colorimetric test kit SHALL have a method detection limit of 0.1 mg/L. A written protocol for quantitative dilution of samples SHALL be kept on file. This protocol SHALL be approved by the director before a colorimeter is approved for use for determining compliance with the MRDL for total chlorine.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.74	X		
3745-81-27	C(1)(c)	SHALL	Residual disinfectant concentrations for chlorine dioxide SHALL be measured by persons acceptable to the director and using a method in section 4500-CIO2 C	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.74	X		
3745-81-27	C(1)(d)	SHALL	Residual disinfectant concentrations for ozone SHALL be measured by the method in section 4500-O3 B (indigo colorimetric method) (twenty-first), or "Standard Methods Online" section 4500-O3 B-97, or automated methods which are calibrated in reference to the results obtained by the indigo method on a regular basis, if approved by the director	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.74	X		
3745-81-27	C(2)	SHALL	Measurements of the plant control tests SHALL be conducted by a person designated on a valid laboratory certificate of approval as REQUIRED under rule 3745-89-03 of the Administrative Code and using the following methods:	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.23	X		

3745-81-27	C(3)	SHALL	Turbidity SHALL be measured by a person designated on a valid certificate of approval as REQUIRED under rule 3745-89-03 of the Administrative Code and using "Standard Methods" section 2130 B (eighteenth, nineteenth, twentieth, twenty-first) or "Standard Methods Online" section 2130 B-01 (nephelometric method); USEPA method 180.1 Rev. 2.0 (nephelometric) as described in "Methods for the Determination of Inorganic Substances in Environmental Samples, EPA-600/R-93-100, August 1993,"	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.23	X		
3745-81-27	C(4)	SHALL	Analysis to determine compliance with rule 3745-81-77 of the Administrative Code SHALL be conducted by a person designated on a valid laboratory certificate of approval as REQUIRED under rule 3745-89-03 of the Administrative Code and using the following methods:	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.27	X		
3745-81-27	D	SHALL	Analyses conducted to determine compliance with rules 3745-81-14, 3745-81-21, 3745-81-42, 3745-81-43, and 3745-81-50 to 3745-81-55 of the Administrative Code SHALL be conducted by a person designated on a valid laboratory certificate of approval as REQUIRED under rule 3745-89-03 of the Administrative Code. The laboratory used by the system SHALL be certified for each method (and any associated contaminant) used for compliance monitoring analyses under rules 3745-81-50 to 3745-81-55 of the Administrative Code.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.21	X		
3745-81-27	D(1)	SHALL	The standard sample volume REQUIRED for a total coliform analysis is one hundred milliliters. The time from sample collection to initiation of test medium incubation SHALL not exceed thirty hours.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.21, 141.852	X		X
3745-81-27	D(3)	SHALL	Total coliform analyses SHALL be conducted in accordance with one of the following methods:	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.21	X		
3745-81-27	D(4)	SHALL	Until March 31, 2016, fecal coliform analysis, for cases in which membrane filter analysis gives total coliform-positive results, SHALL use EC medium. Nutrient EC medium preparation as set forth in "Standard Methods" section 9221 E or "Standard Methods Online" 9221 E-06.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.21	X		
3745-81-27	D(5)	SHALL	Escherichia coli (E. coli) analysis SHALL be conducted by a method identified in this paragraph. The methods identified in paragraphs (D)(5)(b) and (D)(5)(c) of this rule	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.21	X		
3745-81-27	D(5)(a)	SHALL	When membrane filter analysis conducted in accordance with paragraph (D)(3)(a) of this rule results in total coliform-positive results, E. coli analysis SHALL be conducted using either a nutrient EC-MUG or NA-MUG preparation as set forth in "Standard Methods" sections 9222 G.1c(2) or 9222 G.1c(1), respectively.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.21	X		
3745-81-27	E	SHALL	The methods listed in Table A SHALL be used to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code (radioactivity) except in cases where alternative approaches have been approved by the United States environmental protection agency and the director.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.25	X		
3745-81-27	F	SHALL	Analyses for water quality parameters REQUIRED by rule 3745-81-87 of the Administrative Code SHALL be made in accordance with methods listed in paragraph (A) of this rule for calcium, orthophosphate, and silica and SHALL be made in accordance with methods listed in paragraph (C) of this rule for alkalinity, conductivity, pH, and temperature.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.27	X		
3745-81-27	G	SHALL	An alternative technique SHALL be acceptable only if it is substantially equivalent to the prescribed test in both precision and accuracy as it relates to the determination of compliance with any maximum contaminant level or monitoring REQUIREments. The use of an alternative analytic technique SHALL not decrease the frequency of monitoring REQUIRED by this chapter.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.27	X	X	
3745-81-27	H(1)	SHALL	Systems SHALL analyze at least a ten liter sample or a packed pellet volume of at least two milliliters as generated by the methods listed in paragraph (H) of this rule.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.704	X		
3745-81-27	H(2)	SHALL	Matrix spike (MS) samples, as REQUIRED by the methods in paragraph (H) of this rule, SHALL be spiked and filtered by a laboratory approved for Cryptosporidium analysis in accordance with rule 3745-89-11 of the Administrative Code.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.704	X		
3745-81-27	H(3)	SHALL	In this case, the laboratory SHALL spike the remaining ten liters of water and filter it through the filter used to collect the balance of the sample in the field.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.704	X	X	
3745-81-27	H(4)	SHALL	Flow cytometer-counted spiking suspensions SHALL be used for MS samples and ongoing precision and recovery (OPR) samples.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.704	X	X	
3745-81-27	I	SHALL	Systems SHALL use methods for enumeration of E. coli in source water as approved in 40 C.F.R. 136.3(a).	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.704	X	X	
3745-81-27	I(1)	SHALL	The time from sample collection to initiation of analysis SHALL not exceed eight hours unless the system meets the condition of paragraph (I)(2) of this rule.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.704	X	X	
3745-81-27	I(2)	SHALL	E. coli samples held between thirty to forty-eight hours SHALL be analyzed by the Colilert reagent version of standard method 9223 B as listed in 40 C.F.R. 136.3(a).	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.704	X	X	
3745-81-27	I(3)	SHALL	Systems SHALL maintain samples between zero degrees Celsius and ten degrees Celsius during storage and transit to the laboratory.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.704	X	X	
3745-81-27	J	SHALL	Turbidity. Source water monitoring conducted in accordance with rules 3745-81-64 to 3745-81-69 of the Administrative Code, SHALL use methods for turbidity measurement approved in paragraph (C)(3) of this rule.	6109.03, 6109.04	Federal REQUIRED	40 cfr 141.74	X		

3745-81-27	K	SHALL	Ground water rule, assessment source water monitoring. The methods listed in Table B SHALL be used to determine compliance with rule 3745-81-42 of the Administrative Code	6109.03, 6109.04	Federal REQUIRED	40 CFR § 141.402	X		
3745-81-27	A	REQUIRE	Inorganic chemical analyses REQUIRED by rule 3745-81-87 of the Administrative Code also SHALL be made in accordance with methods listed in this rule for the chemicals being analyzed but do not REQUIRE that the laboratory be certified pursuant to Chapter 3745-89 of the Administrative Code	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.23	X		
3745-81-27	B(1)(a)	REQUIRE	A photoionization detector (PID) is not REQUIRED if total trihalomethanes are the only analytes measured in the sample.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.31	X	X	
3745-81-27	D(1)	REQUIRE	The standard sample volume REQUIRED for a total coliform analysis is one hundred milliliters.	6109.03, 6109.04	Federal REQUIRED	40 cfr 141.21	X	x	
3745-81-27	D(1)(a)	REQUIRE	Systems are encouraged but not REQUIRED to hold samples below ten degrees Celsius during transit.	6109.03, 6109.04	Federal REQUIRED	Exceeds 141.21	X		
3745-81-27	D(1)(b)	REQUIRE	Systems need only determine the presence or absence of total coliform and E. coli; a determination of density is not REQUIRED.	6109.03, 6109.04	Federal REQUIRED	40 CFR 141.21	X		
3745-81-27	D(4)(b)	REQUIRE	Public water systems need only determine the presence or absence of fecal coliforms; a determination of fecal coliform density is not REQUIRED.	6109.03, 6109.05	Federal REQUIRED	40 CFR 141.21	X	X	
3745-81-27	G	REQUIRE	The use of an alternative analytic technique SHALL not decrease the frequency of monitoring REQUIRED by this chapter.	6109.03, 6109.06	Federal REQUIRED	40 CFR 141.27	X	X	
3745-81-27	H(2)	REQUIRE	Matrix spike (MS) samples, as REQUIRED by the methods in paragraph (H) of this rule, SHALL be spiked and filtered by a laboratory approved for Cryptosporidium analysis in accordance with rule 3745-89-11 of the Administrative Code.	6109.03, 6109.07	Federal REQUIRED	40 CFR 141.704	X		
3745-81-27	A(7)	MUST	EPA methods 317.0 Rev 2.0, or 326.0 or 321.8 MUST be used for monitoring of bromate for purposes of demonstrating eligibility of reduced monitoring, as prescribed in paragraph (L)(6) of rule 3745-81-23 of the Administrative Code. EPA method 321.8 samples MUST be preserved at the time of sampling with fifty milligrams of ethylenediamine (EDA)/L of sample and MUST be analyzed within twenty-eight days. EPA method 321.8 samples MUST be preserved at the time of sampling with fifty milligrams of ethylenediamine (EDA)/L of sample and MUST be analyzed within twenty-eight days. EPA method 317.0 Rev. 2.0, 326.0 Rev. 1.0 or 321.8 SHALL be used to qualify for reduced monitoring according to paragraph (L)(5) of rule 3745-81-23 of the Administrative Code, and laboratories using these methods MUST be able to meet minimum reporting limits as listed in Appendix B to rule 3745-89-03 of the Administrative Code.	6109.03, 6109.08	Federal REQUIRED	40 CFR 141.23	X		
3745-81-27	A(2)(a)	MUST	The samples MUST be extracted within fourteen days of sample collection.	6109.03, 6109.09	Federal REQUIRED	40 CFR 141.23	X		
3745-81-27	A(2)(e)	MUST	The samples MUST be extracted within fourteen days of sample collection.	6109.03, 6109.10	Federal REQUIRED	40 CFR 141.23	X		
3745-81-27	A(4)(d)	MAY NOT	The pH of the UV254 sample MAY NOT be adjusted.	6109.03, 6109.11	Federal REQUIRED	40 CFR 141.23	X		
3745-81-31	C	SHALL	The public water system SHALL report to the director within forty-eight hours the failure to	6109.04	Federal REQUIRED		X		
3745-81-31	A	REQUIRE	Except where a different reporting period is specified in this chapter, the public water system is responsible for ensuring that the results of a test, measurement, or analysis REQUIRED to be made by this chapter are reported to the director within the first ten days following the month in which the result is received for that test, measurement, or analysis or within the first ten days following the end of the REQUIRED monitoring period as specified by the director, whichever occurs first.	6109.04	Federal REQUIRED		X		
3745-81-32	A	SHALL	The owner or operator of a public water system SHALL provide public notice to persons served by that public water system in accordance with this rule. Public	6109.04	Federal REQUIRED	40 CFR 141.201	X		
3745-81-32	(A)(2)	SHALL	Permission for limited distribution SHALL be granted in writing by the director.	6109.04	Federal REQUIRED	40 CFR 141.201	X		
3745-81-32		SHALL	The public water system, within ten days of completing the public notification REQUIREments under this rule for the initial public notice and any repeat notices, SHALL submit to the director a completed verification form indicating that the system has fully complied with the public notification regulations. The public water system SHALL include with this certification a representative copy of each type of notice distributed, published, posted and made available to the persons served by the system and to the media.	6109.04	Federal REQUIRED	40 Cfr 141.31	X	x	
3745-81-32	(B)(1)	SHALL	The owner or operator of a public water system with any of the following violations or situations that may pose an acute risk to human health, SHALL notify the persons served by the public water system in accordance with paragraph (B)(3) of this rule:	6109.04	Federal REQUIRED	40 CFR 141.201	X		

3745-81-32	B(2)	SHALL	The owner or operator of a public water system with a physical or operational disruption SHALL notify the persons served in the affected area of the public water system in accordance with paragraph (B)(3) of this rule when any sample (including special purpose samples) taken after minimum pressure falls below twenty pounds per square inch gauge at ground level and within the affected area of disruption is determined to be E. coli positive or fecal coliform positive.	6109.04	Federal REQUIRED	40 CFR 141.202	X		
3745-81-32	B(2)(b)	SHALL	The Tier 1 notice SHALL remain in effect until total coliforms are not detected in consecutive samples collected twenty-four hours apart. The number of samples to be collected each day MUST be representative of the affected area, but SHALL not be less than two samples per day.	6109.04	Federal REQUIRED	40 CFR 141.202	X		
3745-81-32	B(3)	SHALL	Public water systems SHALL do all of the following:	6109.04	Federal REQUIRED	40 CFR 141.202	X	x	
3745-81-32	c(1)	SHALL	The owner or operator of a public water system with any of the following violations or situations SHALL notify the persons served by the public water system in accordance with paragraph (C)(2) of this rule:	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	C(2)	SHALL	Public water systems SHALL do all of the following	6109.04	Federal REQUIRED	40 CFR 14.203	X	X	
3745-81-32	C(2)(i)	SHALL	Community public water systems SHALL provide notice using the following forms of delivery in order to reach all persons served:	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	C(2)(i)(B)	SHALL	If the public notice is posted, the notice SHALL remain in place for as long as the violation or situation persists, but in no case for less than seven days, even if the violation or situation is resolved.	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	C(2)(a)(ii)	SHALL	Noncommunity public water systems SHALL provide notice using the following forms of delivery in order to reach all persons served:	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	C(2)(a)(ii)(A)	SHALL	If the public notice is posted, the notice SHALL remain in place for as long as the violation or situation persists, but in no case for less than seven days, even if the violation or situation is resolved.	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	C(2)(a)(ii)(B)	SHALL	When the persons served are children, such as in schools, their parents or legal guardians SHALL be notified.	6109.04	Federal REQUIRED		X		
3745-81-32	C(2)(b)	SHALL	The public water system SHALL repeat the notice every three months as long as the violation or situation persists, unless the director determines that appropriate circumstances warrant a different repeat notice frequency.	6109.04	Federal REQUIRED	40 CFR 141.203	X		
3745-81-32	C(c)	SHALL	For turbidity violations specified in paragraph (E) of rule 3745-81-75 of the Administrative Code, public water systems SHALL consult with the director as soon as practical but no later than twenty-four hours after the public water system learns of the violation. When the director determines after consultation that a Tier 1 notice is REQUIRED, or when consultation does not take place within the twenty-four hour period, the water system SHALL distribute notice of the violation within the next twenty-four hours (i.e., no later than forty-eight hours after the system learns of the violation) in accordance with paragraph (B) of this rule	6109.04	Federal REQUIRED	40 CFR 141.204	X	X	
3745-81-32	D	SHALL	The owner or operator of a public water system with any of the following violations or situations SHALL notify the persons served by the public water system in accordance with paragraphs (D)(2) and (D)(3) of this rule:	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	D(2)	SHALL	Community public water systems SHALL provide notice as soon as practical, but no later than one year after the public water system learns of the violation or situation. The following forms of delivery SHALL be used in order to reach all persons served	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	D(2)(b)	SHALL	If the public notice is posted, the notice SHALL remain in place for as long as the violation or other situation persists, but in no case less than seven days (even if the violation or situation is resolved).	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	D(3)	SHALL	Noncommunity water systems SHALL provide notice as soon as practical, but no later than thirty days after the public water system learns of the violation or situation. The following forms of delivery SHALL be used in order to reach all persons served:	6109.04	Federal REQUIRED	40 CFR 141.203	X		
3745-81-32	D(3)(a)	SHALL	If the public notice is posted, the notice SHALL remain in place for as long as the violation or other situation persists, but in no case less than seven days (even if the violation or situation is resolved).	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	D(3)(b)	SHALL	When the persons served are children, such as in schools, their parents or legal guardians SHALL be notified.	6109.04	Federal REQUIRED	40 CFR 141.203	X		
3745-81-32	D(4)	SHALL	For methods other than posting, the public water system SHALL repeat the notice annually for as long as the violation or other situation persists.	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	D(5)	SHALL	For violations of the fluoride SMCL, the public water system SHALL send a copy of the notice to the local health department and the "Ohio Department of Health, Bureau of Oral Health Services	6109.04	Federal REQUIRED		X		
3745-81-32	E(1)	SHALL	Each public notice, except the public notice REQUIRED in paragraphs (C)(1)(b) and (C)(1)(c) of this rule, SHALL include all of the following elements:	6109.04	Federal REQUIRED	40 CFR 141.205	X		

3745-81-32	E(2)	SHALL	Each public notice REQUIRED by paragraphs (C)(1)(b) and (C)(1)(c) of this rule SHALL include all of the following elements:	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(2)(a)	SHALL	The public notice for repeated failure to conduct monitoring as specified in paragraph (C)(1)(b) of this rule SHALL contain the following language:	6109.04	Federal REQUIRED	40 CFR 141.205	X	x	
3745-81-32	E(2)(b)	SHALL	The public notice for failure to determine bin classification or mean Cryptosporidium level as specified in paragraph (C)(1)(c) of this rule SHALL contain the following language:	6109.04	Federal REQUIRED	40 CFR 141.211	X	x	
3745-81-32	E(3)(a)	SHALL	Each public notice REQUIRED by this section SHALL meet all of the following	6109.04	Federal REQUIRED	40 CFR 141.205	X	x	
3745-81-32	E(3)(a)(i)	SHALL	SHALL be displayed in a conspicuous way when printed or posted.	6109.04	Federal REQUIRED	40 CFR 141.205	X	x	
3745-81-32	E(3)(a)(ii)	SHALL	SHALL not contain overly technical language or very small print.	6109.04	Federal REQUIRED	40 CFR 141.205	X	x	
3745-81-32	E(3)(a)(iii)	SHALL	SHALL not be formatted in a way that defeats the purpose of the notice.	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(3)(a)(iv)	SHALL	SHALL not contain language which nullifies the purpose of the notice.	6109.04	Federal REQUIRED	40 CFR 141.205	X	x	
3745-81-32	E(3)(b)	SHALL	For public water systems serving a large proportion of non-English speaking consumers, defined as ten per cent or more of the residents speaking the same non-English language, the public notice SHALL contain information in the appropriate language regarding the importance of the notice or contain a telephone number or address	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(4)(a)	SHALL	Community water systems SHALL give a copy of the most recent public notice for any continuing violations	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(4)(b)	SHALL	Noncommunity water systems SHALL continuously post the public notice in conspicuous locations in order to inform new consumers of any continuing violation or other situation	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	F(TABLE 1)1e	SHALL	The system SHALL use the following applicable sentences.]	6109.04	Federal REQUIRED	Appendix B Subpart Q of part 141	X		
3745-81-32	F(TABLE 1)1f	SHALL	The system SHALL use the following applicable sentences.]	6109.04	Federal REQUIRED	Appendix B Subpart Q of part 141	X		
3745-81-32	F(TABLE 1)1h	SHALL	When this violation includes the failure to monitor for total coliforms or E. coli prior to serving water to the public, the standard language found in paragraph (E)(1)(c)(ii) of this rule SHALL be used. When this violation includes failure to complete other actions, the appropriate elements found in paragraph (E)(1) of this rule to describe the violation SHALL be used.	6109.04	Federal REQUIRED	Appendix B Subpart Q of part 141	X		
3745-81-32	A(1)	REQUIRE	Public water systems that sell or otherwise provide drinking water to other public water systems (i.e., to consecutive systems) are REQUIRED to give public notice in accordance with this rule	6109.04	Federal REQUIRED	40 CFR 141.201	X		
3745-81-32	A(2)	REQUIRE	If a community public water system has a violation in a portion of the distribution system that is physically or hydraulically isolated from other parts of the distribution system as described in the emergency contingency plan REQUIRED by Chapter 3745-85	6109.04	Federal REQUIRED	40 CFR 141.201	X		
3745-81-32	B(1)(h)(iii)	REQUIRE	The director determines after consultation that a Tier 1 notice is REQUIRED.	6109.04	Federal REQUIRED	40 CFR 141.201	X		
3745-81-32	B(2)(a)	REQUIRE	Tier 1 notice is not REQUIRED if the system issued a precautionary notice as approved by the director through the public water system's contingency plan REQUIRED by Chapter 3745-85	6109.04	Federal REQUIRED	40 CFR 141.202	X	x	
3745-81-32	C(1)(c)	REQUIRE	Failure to determine and report bin classification or mean Cryptosporidium level REQUIRED by paragraphs (A) to (D) of rule 3745-81-65 of the Administrative Code for the "Long Term 2 Enhanced Surface Water Treatment Rule."	6109.04	Federal REQUIRED	40 CFR 141.211	X	X	
3745-81-32	C(2)(a)(i)(B)	REQUIRE	Any other method reasonably calculated to reach other persons regularly served by the system, if they would not normally be reached by the notice REQUIRED in paragraph (C)(2)(a)(i)(a) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.203	X	x	
3745-81-32	c(2)(a)(ii)(B)	REQUIRE	Any other method reasonably calculated to reach other persons served by the system if they would not normally be reached by the notice REQUIRED in paragraph (C)(2)(a)(ii)(a) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.203	X	x	
3745-81-32	C(2)(c)	REQUIRE	When the director determines after consultation that a Tier 1 notice is REQUIRED, or when consultation does not take place within the twenty-four hour period, the water system SHALL distribute notice	6109.04	Federal REQUIRED	40 CFR 141.203	X		
3745-81-32	D(1)(c)	REQUIRE	Availability of unregulated contaminant monitoring results, as REQUIRED by 40 C.F.R. Section 141.207 (May 4, 2000).	6109.04	Federal REQUIRED	40 CFR 141.204	X	x	
3745-81-32	D(2)(b)	REQUIRE	Any other method reasonably calculated to reach other persons regularly served by the system, if they would not normally be reached by the notice REQUIRED in paragraph (D)(2)(a) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.204	X	x	
3745-81-32	D(2)(c)	REQUIRE	The consumer confidence report (CCR) REQUIRED under Chapter 3745-96 of the Administrative Code may be used as a vehicle for the initial public notice and all REQUIRED repeat notices, as long as all of the following is met:	6109.04	Federal REQUIRED	40 CFR 141.204	X	x	

3745-81-32	D(3)(b)	REQUIRE	Any other method reasonably calculated to reach other persons served by the system, if they would not normally be reached by the notice REQUIRED in paragraph (D)(3)(a) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.204	X	x	
3745-81-32	E	REQUIRE	Each public notice, except the public notice REQUIRED in paragraphs (C)(1)(b) and (C)(1)(c) of this rule, SHALL include all of the following elements:	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(1)(c)(ii)	REQUIRE	"We are REQUIRED to monitor your drinking water for specific contaminants on a regular basis.	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(2)	REQUIRE	Each public notice REQUIRED by paragraphs (C)(1)(b) and (C)(1)(c) of this rule SHALL include all of the following elements:	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(2)(a)	REQUIRE	"We are REQUIRED to monitor the source of your drinking water for Cryptosporidium Results of the monitoring are to be used to determine whether water treatment at the [treatment plant name] is sufficient to adequately remove Cryptosporidium from your drinking water. We are REQUIRED to complete this monitoring and make this determination by [REQUIRED bin determination date]. We did not monitor or test or did not complete all monitoring or testing on schedule and, therefore, we MAY NOT be able to determine by the REQUIRED date what treatment modifications, if any, MUST be made to ensure adequate Cryptosporidium removal. Missing this deadline may, in turn jeopardize our ability to have the REQUIRED treatment modifications, if any, completed by the deadline REQUIRED, [date]."	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(2)(b)	REQUIRE	"We are REQUIRED to monitor the source of your drinking water for Cryptosporidium in order to determine by [date] whether water treatment at the [public water system name] is sufficient to adequately remove Cryptosporidium from your drinking water. We have not made this determination by the REQUIRED date. Our failure to do this may jeopardize our ability to have the REQUIRED treatment modifications, if any, completed by the REQUIRED deadline of [date]. For more information, please call [contact name] of [public water system name] at [phone number]."	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(3)	REQUIRE	Each public notice REQUIRED by this section SHALL meet all of the following:	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	F	REQUIRE	The director may give the notice REQUIRED by this rule when the owner or operator of a public water system fails or refuses to comply with this rule.	6109.04	Federal REQUIRED		X		
3745-81-32	1e table 1	REQUIRE	We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are REQUIRED to conduct assessments to identify problems and to correct any problems that were found. [The system SHALL use the following applicable sentences.] We failed to conduct the REQUIRED assessment. We failed to correct all identified significant deficiencies that were found during the assessment.	6109.04	Federal REQUIRED	Appendix B Subpart Q of part 141	X	X	
3745-81-32	1f table 1	REQUIRE	When this occurs, we are REQUIRED to conduct a detailed assessment to identify problems and to correct any problems that are found. We failed to conduct the REQUIRED assessment.	6109.04	Federal REQUIRED	Appendix B Subpart Q of part 141	X	X	
3745-81-32	16b	REQUIRE	Your drinking water does not contain more than 4 mg/L of fluoride, but we're REQUIRED to notify you when we discover that the fluoride levels in your drinking water exceed 2 mg/L because of this cosmetic dental problem.	6109.04	Federal REQUIRED	40 CFR 141.2018	X	X	
3745-81-32	B(2)(b)	MUST	The number of samples to be collected each day MUST be representative of the affected area, but SHALL not be less than two samples per day.	6109.04	Federal REQUIRED	Exceeds fed rule	X		
3745-81-32	C(2)(b)	MUST	Permission to issue repeat notices less frequently than once every three months MUST be granted in writing by the director.	6109.04	Federal REQUIRED	40 CFR 141.203	X	X	
3745-81-32	E(2)(a)	MUST	We did not monitor or test or did not complete all monitoring or testing on schedule and, therefore, we MAY NOT be able to determine by the REQUIRED date what treatment modifications, if any, MUST be made to ensure adequate Cryptosporidium removal.	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(2)(c)	MUST	Each public notice MUST also include a description of what the system is doing to correct the violation and when the system expects to return to compliance or resolve the situation.	6109.04	Federal REQUIRED	40 CFR 141.205	X	X	
3745-81-32	E(3)(b)	MAY NOT	Such persons may include those who MAY NOT see a posted notice because the notice is not in a location they routinely pass by	6109.04	Federal REQUIRED	40 CFR 141.2015	X		
3745-81-32	E(1)(j)	MAY NOT	Please share this information with all the other people who drink this water, especially those who MAY NOT have received this notice directly (for example, people in apartments, nursing homes, schools and businesses).	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	E(2)(a)	MAY NOT	We did not monitor or test or did not complete all monitoring or testing on schedule and, therefore, we MAY NOT be able to determine by the REQUIRED date what treatment modifications, if any, MUST be made to ensure adequate Cryptosporidium removal.	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-32	C(2)(a)(ii)(B)	MAY NOT	Such persons may include those served who MAY NOT see a posted notice because the posted notice is not in a location they routinely pass by	6109.04	Federal REQUIRED	40 CFR 141.205	X		
3745-81-33	Intro	SHALL	Any owner or operator of a public water system subject to the provisions of this chapter SHALL retain on its premises or at a convenient location near its premises the following records:	6109.04	Federal REQUIRED	40 CFR 141.75			

3745-81-33	(A)	SHALL	Records of microbiological and turbidity analyses made pursuant to this chapter SHALL be kept for not less than five years unless otherwise specified	6109.04	Federal REQUIRED	40 CFR 141.75			
3745-81-33	(A)	SHALL	Records of chemical analyses made pursuant to this chapter SHALL be kept for not less than ten years. Actual laboratory reports may be kept, or data may be transferred to tabular summaries, provided that the following information is included:	6109.04	Federal REQUIRED	40 CFR 141.75			
3745-81-33	(B)	SHALL	Records of action taken by the system to correct violations of state primary drinking water rules SHALL be kept for a period not less than three years after the last action taken with respect to the particular violation involved.	6109.04	Federal REQUIRED	40 CFR 141.75			
3745-81-33	(C)	SHALL	Copies of any written reports, summaries or communications relating to sanitary surveys of the system conducted by the system itself, by a private consultant, or by any local, state or federal agency, SHALL be kept for a period not less than ten years after completion of the sanitary survey involved	6109.04	Federal REQUIRED	40 CFR 141.75			
3745-81-33	(D)	MUST	Copies of public notices issued pursuant to rule 3745-81-32 of the Administrative Code and certifications submitted to the director pursuant to paragraph (A)(3) of rule 3745-81-32 of the Administrative Code MUST be kept for a minimum of three years after issuance.	6109.04	Federal REQUIRED	40 CFR 141.75			
3745-81-33	(E)	SHALL	Copies of any decisions, reports, monitoring plans or certifications developed by the system or an agent of the system SHALL be kept for a minimum of five years for microbiological and turbidity records and a minimum of ten years for chemical records.	6109.04	Federal REQUIRED	40 CFR 141.75			
3745-81-41	(A)	SHALL	Systems subject to this rule SHALL comply with the following:	6109.04	Federal REQUIRED	40 CFR 141.400			
3745-81-41	(A)(3)	SHALL	A ground water system with fecally contaminated source water or with significant deficiencies subject to the treatment technique REQUIREments of this rule SHALL implement one or more of the following corrective action options: correct all significant deficiencies; provide an alternate source of water; eliminate the source of contamination; or provide treatment that reliably achieves at least 4-log treatment of viruses (using inactivation, removal, or a director-approved combination of 4-log virus inactivation and removal) before or at the first customer	6109.04	Federal REQUIRED	40 CFR 141.400			
3745-81-41	(A)(4)	REQUIRED	Ground water systems that provide at least 4-log treatment of viruses (using inactivation, removal, or a director-approved combination of 4-log virus inactivation and removal) before or at the first customer are REQUIRED to conduct compliance monitoring to demonstrate treatment effectiveness, as described in rule 3745-81-43 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.400			
3745-81-41	(A)(5)	SHALL	If requested by the director, ground water systems SHALL provide any existing information that will enable the director to perform a hydrogeologic sensitivity assessment.	6109.04	Federal REQUIRED	40 CFR 141.400			
3745-81-42	(A)(1)	SHALL	A ground water system SHALL conduct triggered source water monitoring if the conditions identified in paragraph (A)(1)(a) and either paragraph (A)(1)(b) or (A)(1)(c) of this rule exist.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(A)(2)	SHALL	A ground water system SHALL collect, within twenty-four hours of notification of the total coliform-positive sample, at least one ground water source sample from each ground water source in use at the time the total coliform-positive sample was collected under paragraph (A) of rule 3745-81-21 of the Administrative Code until March 31, 2016, or collected under rule 3745-81-51 of the Administrative Code beginning April 1, 2016, except as provided in paragraph (A)(2)(b) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(A)(2)	SHALL	The ground water source sample SHALL be analyzed for fecal indicators as described in paragraph (C) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(A)(2)(a)	SHALL	When an extension is granted, the director SHALL specify how much time the system has to collect the ground water source samples.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(A)(2)(b)	REQUIRED	If REQUIRED, public water systems SHALL submit a triggered source water monitoring plan acceptable to the director that identifies one or more sampling locations that are representative of each monitoring site in the system's sample siting plan under paragraph (A) of rule 3745-81-21 of the Administrative Code until March 31, 2016, or under rule 3745-81-50 of the Administrative Code beginning April 1, 2016, and that the system intends to use for representative sampling under this paragraph.	6109.04	Federal REQUIRED	40 CFR 141.402			

3745-81-42	(A)(2)(b)	SHALL	If REQUIRED, public water systems SHALL submit a triggered source water monitoring plan acceptable to the director that identifies one or more sampling locations that are representative of each monitoring site in the system's sample siting plan under paragraph (A) of rule 3745-81-21 of the Administrative Code until March 31, 2016, or under rule 3745-81-50 of the Administrative Code beginning April 1, 2016, and that the system intends to use for representative sampling under this paragraph.	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(2)(c)	SHALL	If any repeat sample collected from distribution is E. coli positive, the system SHALL comply with paragraph (A)(3) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(2)(d)	SHALL	If any repeat sample collected from the ground water source is E. coli-positive, the system SHALL comply with paragraph (A)(3) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(3)	REQUIRE	If the director does not REQUIRE corrective action in accordance with rule 3745-81-61 of the Administrative Code for a fecal indicator-positive source water sample collected under paragraph (A)(2) of this rule that is not invalidated under paragraph (D) of this rule, a system SHALL collect a minimum of five additional source water samples within twenty-four hours of being notified of a fecal indicator-positive sample.	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(3)	SHALL	If the director does not REQUIRE corrective action in accordance with rule 3745-81-61 of the Administrative Code for a fecal indicator-positive source water sample collected under paragraph (A)(2) of this rule that is not invalidated under paragraph (D) of this rule, a system SHALL collect a minimum of five additional source water samples within twenty-four hours of being notified of a fecal indicator-positive sample.	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(3)	SHALL	At least one sample SHALL be collected from each well that was in operation at the time of the first positive routine sample.	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(3)	SHALL	If the system does not have records that indicate which wells were in operation at the time of the first positive routine sample, then samples SHALL be collected from all active wells in the system	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(3)	SHALL	If there are less than five wells in the system, additional samples SHALL be distributed as evenly as possible between sampled wells to assure that at least five samples are collected.	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(4)(a)	SHALL	In addition to the other REQUIREments of paragraph (A) of this rule, a consecutive ground water system that has a total coliform-positive sample collected under paragraph (A) of rule 3745-81-21 of the Administrative Code until March 31, 2016, or under rule 3745-81-51 of the Administrative Code beginning April 1, 2016, SHALL notify the wholesale system within twenty-four hours of being notified of the total coliform-positive sample.	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(4)(b)	SHALL	In addition to the other REQUIREments of paragraph (A) of this rule, a wholesale ground water system SHALL comply with the following:	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(4)(b)(i)	SHALL	A wholesale ground water system that receives notice from a consecutive system it serves that a sample collected under paragraph (A) of rule 3745-81-21 of the Administrative Code until March 31, 2016, or collected under rule 3745-81-51 of the Administrative Code beginning April 1, 2016, is total coliform-positive SHALL, within twenty-four hours of being notified, collect a sample from its ground water sources under paragraph (A)(2) of this rule and analyze it for a fecal indicator under paragraph (C) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(4)(b)(ii)	SHALL	If the sample collected under paragraph (A)(4)(b)(i) of this rule is fecal indicator-positive, the wholesale ground water system SHALL notify all consecutive systems served by that ground water source of the fecal indicator source water positive within twenty-four hours of being notified of the ground water source sample monitoring result and SHALL comply with paragraph (A)(3) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.402				
3745-81-42	(A)(4)(b)(ii)	SHALL	If the sample collected under paragraph (A)(4)(b)(i) of this rule is fecal indicator-positive, the wholesale ground water system SHALL notify all consecutive systems served by that ground water source of the fecal indicator source water positive within twenty-four hours of being notified of the ground water source sample monitoring result and SHALL comply with paragraph (A)(3) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.402				

3745-81-42	(A)(5)	REQUIRED	A ground water system is not REQUIRED to comply with the source water monitoring REQUIREments of paragraph (A) of this rule if either of the following conditions exists:	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(B)	SHALL	If directed, ground water systems SHALL conduct assessment source water monitoring that meets director-determined REQUIREments for such monitoring	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(C)(1)	SHALL	A ground water system subject to the source water monitoring REQUIREments of paragraph (A) of this rule SHALL collect a standard sample volume of at least one hundred milliliters for fecal indicator analysis regardless of the fecal indicator or analytical method used.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(C)(2)	SHALL	A ground water system SHALL analyze all ground water source samples collected in accordance with paragraph (A) of this rule, using one of the analytical methods listed in rule 3745-81-27 of the Administrative Code or as determined by the director, for the presence of E. coli, enterococci or coliphage.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(D)(2)	SHALL	If the director invalidates a fecal indicator-positive ground water source sample, the ground water system SHALL collect another source water sample under paragraph (A) of this rule within twenty-four hours of being notified of the sample invalidation and have the source water sample analyzed for the same fecal indicator using the analytical methods in paragraph (C) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(D)(2)	SHALL	The director may extend the twenty-four hour time limit on a case-by-case basis if the system cannot collect the source water sample within twenty-four hours due to circumstances beyond the system's control. In the case of an extension, the director SHALL specify how much time the system has to collect the sample.	6109.04	Federal REQUIRED	40 CFR 141.402			X
3745-81-42	(E) (1)	REQUIRED	Any ground water source sample REQUIRED under paragraph (A) of this rule SHALL be collected at a location prior to any treatment of the ground water source unless the director accepts a sampling location after treatment.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(E) (1)	SHALL	Any ground water source sample REQUIRED under paragraph (A) of this rule SHALL be collected at a location prior to any treatment of the ground water source unless the director accepts a sampling location after treatment.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(F)	REQUIRED	If REQUIRED by the director, a ground water system that places a new ground water source into service, SHALL conduct assessment source water monitoring under paragraph (B) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(F)	SHALL	If REQUIRED by the director, a ground water system that places a new ground water source into service, SHALL conduct assessment source water monitoring under paragraph (B) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(F)	REQUIRED	If REQUIRED by the director, the system SHALL begin monitoring before the ground water source is used to provide water to the public	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(F)	SHALL	If REQUIRED by the director, the system SHALL begin monitoring before the ground water source is used to provide water to the public	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(G)	SHALL	A ground water system with a ground water source sample collected under paragraph (A) or (B) of this rule that is fecal indicator-positive and that is not invalidated under paragraph (D) of this rule, including consecutive systems served by the ground water source, SHALL conduct public notification in accordance with paragraph (B)(1)(i) of rule 3745-81-32 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(H)	REQUIRES	Failure to meet paragraphs (A) to (F) of this rule is a monitoring violation and REQUIRES the ground water system to provide public notification under paragraph (D)(1)(a) of rule 3745-81-32 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(H)	REQUIRED	A ground water system providing 4-log inactivation of viruses and REQUIRED to conduct assessment source water monitoring in accordance with this rule, and if acceptable to the director, will not be REQUIRED to issue public notification.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-42	(H)	REQUIRED	A ground water system providing 4-log inactivation of viruses and REQUIRED to conduct assessment source water monitoring in accordance with this rule, and if acceptable to the director, will not be REQUIRED to issue public notification.	6109.04	Federal REQUIRED	40 CFR 141.402			
3745-81-43	(A)(1)	SHALL	A ground water system that is not REQUIRED to meet the source water monitoring REQUIREments of rule 3745-81-42 of the Administrative Code because the system provides at least 4-log treatment of viruses (using inactivation, removal, or a director-approved combination of 4-log virus inactivation and removal) before or at the first customer for the ground water source SHALL comply with the following REQUIREments:	6109.04	Federal REQUIRED	41 CFR 141.403			

3745-81-43	(A)(1)(a)	SHALL	The system SHALL notify the director in writing that it provides at least 4-log treatment of viruses (using inactivation, removal, or a director-approved combination of 4-log virus inactivation and removal) before or at the first customer for the ground water source.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(1)(a)	SHALL	Notification to the director SHALL include engineering, operational, or other information that the director requests to evaluate the submission	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(1)(a)	REQUIRE	The notification may also REQUIRE a complete plan approval application in accordance with Chapter 3745-91 of the Administrative Code.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(1)(b)	SHALL	The system SHALL obtain acceptance or approval from the director for 4-log treatment of viruses.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(1)(c)	SHALL	The system SHALL conduct compliance monitoring as REQUIRED in paragraph (A)(2) of this rule within thirty days of placing the source in service or receiving director approval for 4-log treatment of viruses.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(1)(c)	REQUIRED	The system SHALL conduct compliance monitoring as REQUIRED in paragraph (A)(2) of this rule within thirty days of placing the source in service or receiving director approval for 4-log treatment of viruses.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(1)(d)	SHALL	The system SHALL conduct ground water source monitoring in accordance with rule 3745-81-42 of the Administrative Code if the system subsequently discontinues 4-log treatment of viruses (using inactivation, removal, or a director-approved combination of 4-log virus inactivation and removal) before or at the first customer for the ground water source.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)	SHALL	A ground water system subject to the REQUIREments of paragraph (A)(1) of this rule or REQUIREments in rule 3745-81-61 of the Administrative Code, SHALL monitor the effectiveness and reliability of treatment for that ground water source before or at the first customer as follows:	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(a)(i)	SHALL	For a system providing disinfection treatment only, the disinfection treatment SHALL be considered sufficient if the total treatment processes of that public water system would consistently and reliably achieve at least 99.99 per cent (4-log) inactivation of viruses, as determined from tables B-7, B-9, B-11 and B-13 of rule 3745-81-72 of the Administrative Code.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(a)(ii)	SHALL	Treatment technique REQUIREments are used to ensure control of viruses in drinking water. Tables B-7, B-9, B-11 and B-13 of rule 3745-81-72 of the Administrative Code SHALL be used to determine the sufficiency of disinfection for this rule.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(a)(iii)	REQUIRED	It may be appropriate to determine the value of C at more than one point of the water treatment flow, with the T associated with each C being estimated from the previous measurement point or the previous addition of disinfectant, whichever is closer. If more than one disinfectant concentration point is used, the products of each C and its associated T are added and the sum of these products is the actual CT value to compare with the appropriate value of the REQUIRED minimum CT values for specified conditions and levels of inactivation.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(a)(iii)	REQUIRED	Minimum REQUIRED CT values for inactivation of viruses by disinfection in relation to the disinfectant, the extent of inactivation, the lowest disinfectant concentration, the pH, and the water temperature are found in tables B-7, B-9, B-11 and B-13 of rule 3745-81-72 of the Administrative Code.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(a)(iv)	SHALL	In tables B-7, B-9, B-11 and B-13 of rule 3745-81-72 of the Administrative Code, the REQUIRED CT between the indicated temperatures, pH or residual disinfectant concentrations may be determined by linear interpolation. If no interpolation is used, then the REQUIRED CT SHALL be determined at the lower temperature, and at the higher pH.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(a)(iv)	SHALL	If no interpolation is used, for virus inactivation at a pH greater than nine, the REQUIRED CT SHALL be the same as the REQUIRED CT at a pH equal to ten.	6109.04	Federal REQUIRED	41 CFR 141.403			

3745-81-43	(A)(2)(a)(iv)	REQUIRED	In tables B-7, B-9, B-11 and B-13 of rule 3745-81-72 of the Administrative Code, the REQUIRED CT between the indicated temperatures, pH or residual disinfectant concentrations may be determined by linear interpolation. If no interpolation is used, then the REQUIRED CT SHALL be determined at the lower temperature, and at the higher pH.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(iv)	REQUIRED	If no interpolation is used, then the REQUIRED CT SHALL be determined at the lower temperature, and at the higher pH. If no interpolation is used, for virus inactivation at a pH greater than nine, the REQUIRED CT SHALL be the same as the REQUIRED CT at a pH equal to ten.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(iv)	REQUIRED	If no interpolation is used, for virus inactivation at a pH greater than nine, the REQUIRED CT SHALL be the same as the REQUIRED CT at a pH equal to ten.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(iv)	REQUIRED	If no interpolation is used, for virus inactivation at a pH greater than nine, the REQUIRED CT SHALL be the same as the REQUIRED CT at a pH equal to ten.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(v)	REQUIRED	On each day when the actual CT value meets or exceeds the REQUIRED minimum CT value in or linearly interpolated from tables B-7, B-9, B-11 and B-13 of rule 3745-81-72 of the Administrative Code, then the water treatment plant is considered to be satisfying this rule's treatment technique REQUIREments for disinfection of ground water sources.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(v)	REQUIRED	On each day when the actual CT value does not meet or exceed the REQUIRED minimum CT value from tables B-7, B-9, B-11 and B-13 of rule 3745-81-72 of the Administrative Code, then the water treatment plant is in violation of paragraph (A)(2)(a)(i) of this rule if the CT value is not restored within four hours.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(vi)	SHALL	For each clearwell, or contact tank, the approved effective volume factor SHALL be determined by the director based upon its design characteristics including: the average flow path length to channel width ratio; baffling; and the proximity of the outlet to the inlet using figures B-1 and B-2 of rule 3745-81-72 of the Administrative Code.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(vi)	SHALL	The approved effective volume factor SHALL be the preliminary effective volume factor obtained from figure B-1 multiplied by the reduction factor obtained from figure B-2, rounded down to the nearest 0.05.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(vi)	SHALL	For a tracer study to be acceptable, the net advection of the tracer SHALL be within ten per cent of the change in the tracer chemical storage within the clearwell system.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(vii)	SHALL	Public water systems serving greater than three thousand three hundred people SHALL continuously monitor the residual disinfectant concentration of the water at a location approved by the director and the lowest value SHALL be recorded each day.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(vii)	SHALL	Public water systems serving greater than three thousand three hundred people SHALL continuously monitor the residual disinfectant concentration of the water at a location approved by the director and the lowest value SHALL be recorded each day	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(vii)	SHALL	If there is a failure in the continuous disinfectant monitoring equipment, the public water system SHALL conduct grab sampling every four hours in lieu of continuous monitoring until the continuous monitoring equipment is repaired and returned to service.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(viii)	SHALL	Public water systems serving three thousand three hundred or fewer people SHALL monitor the residual disinfectant concentration at a location approved by the director, and record the residual disinfection concentration each day that water from the ground water source is served to the public.	6109.04	Federal REQUIRED	41 CFR 141.403				
3745-81-43	(A)(2)(a)(viii)	SHALL	The public water system SHALL take a daily grab sample during the hour of peak flow or at another time specified by the director.	6109.04	Federal REQUIRED	41 CFR 141.403				

3745-81-43	(A)(2)(a)(viii)	SHALL	If the actual residual disinfectant concentration value falls below the REQUIRED minimum specified by the director, the ground water system SHALL take follow-up samples every four hours until the actual disinfectant residual is restored to the director-determined minimum value.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(a)(viii)	REQUIRED	If the actual residual disinfectant concentration value falls below the REQUIRED minimum specified by the director, the ground water system SHALL take follow-up samples every four hours until the actual disinfectant residual is restored to the director-determined minimum value.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(a)(ix)	SHALL	Other parameters necessary to determine the sufficiency of disinfection prior to the first customer SHALL be measured and recorded.	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(b)	SHALL	A ground water system that uses membrane filtration to meet the REQUIREments of this subpart SHALL monitor the membrane filtration process in accordance with all director-specified monitoring REQUIREments and SHALL operate the membrane filtration in accordance with all director-specified compliance REQUIREments	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(b)	SHALL	A ground water system that uses membrane filtration to meet the REQUIREments of this subpart SHALL monitor the membrane filtration process in accordance with all director-specified monitoring REQUIREments and SHALL operate the membrane filtration in accordance with all director-specified compliance REQUIREments	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-43	(A)(2)(c)	SHALL	Alternative treatment. A ground water system that uses a director-approved alternative treatment to meet the REQUIREments of this rule by providing at least 4-log treatment of viruses (using inactivation, removal, or a director-approved combination of 4-log virus inactivation and removal) before or at the first customer SHALL comply with the following:	6109.04	Federal REQUIRED	41 CFR 141.403			
3745-81-44	(D)	MUST	A ground water system MUST give public notification in accordance with paragraph (C)(1)(a) of rule 3745-81-32 of the Administrative Code for the treatment technique violations specified in paragraphs (A) to (C) of this rule.	6109.04	Federal REQUIRED	41 CFR 141.404			
3745-81-45	(A)	SHALL	In addition to the REQUIREments in rule 3745-81-31 of the Administrative Code, a ground water system regulated under rules 3745-81-41 to 3745-81-45 and rule 3745-81-60 or 3745-81-61 of the Administrative Code SHALL provide the following information to the director:	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(A)(1)	SHALL	A ground water system conducting compliance monitoring in paragraph (A) of rule 3745-81-43 of the Administrative Code SHALL report monthly to the director the information specified in rule 3745-83-01 of the Administrative Code.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(A)(1)	SHALL	These ground water systems SHALL also notify the director any time the system fails to meet any director-specified REQUIREments including, but not limited to, minimum residual disinfectant concentration, membrane operating criteria or membrane integrity, and alternative treatment operating criteria, if operation in accordance with the criteria or REQUIREments is not restored within four hours	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(A)(1)	SHALL	The ground water system SHALL notify the director as soon as possible, but in no case later than the end of the next business day.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(A)(2)	SHALL	After completing any corrective action under rule 3745-81-61 of the Administrative Code, a ground water system SHALL notify the director within thirty days of completion of the corrective action.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(A)(3)	SHALL	If a ground water system subject to paragraph (A) of rule 3745-81-42 of the Administrative Code does not conduct source water monitoring in accordance with paragraph (A)(5)(b) of rule 3745-81-42 of the Administrative Code, the system SHALL provide documentation within thirty days of the total coliform positive sample that the system met appropriate criteria as acceptable to the director.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(B)	SHALL	In addition to rule 3745-81-33 of the Administrative Code, a ground water system regulated under this rule SHALL maintain the following records:	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(B)(1)	SHALL	Documentation SHALL be kept for a period of not less than ten years.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(B)(2)	SHALL	Documentation SHALL be kept for a period of not less than three years.	6109.04	Federal REQUIRED	41 CFR 141.405			

3745-81-45	(B)(3)	SHALL	Documentation SHALL be kept for a period of not less than five years.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(B)(4)	SHALL	Documentation SHALL be kept for a period of not less than five years.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(B)(5)(a)	SHALL	Documentation SHALL be kept for a period of not less than ten years.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(B)(5)(b)	SHALL	Documentation SHALL be kept for a period of not less than five years.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(B)(5)(c)	SHALL	Documentation SHALL be kept for a period of not less than five years.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-45	(C)	SHALL	Each public water system, upon discovering that a waterborne disease outbreak potentially attributable to that public water system has occurred, SHALL report that occurrence to the director as soon as possible, but no later than by the end of the next business day.	6109.04	Federal REQUIRED	41 CFR 141.405			
3745-81-50	A	SHALL	Public water systems SHALL continue to conduct routine monitoring according to the total coliform monitoring schedules issued under rule 3745-81-21 of the Administrative Code that were in effect on March 31, 2016, unless any of the conditions for increased monitoring in paragraph (B)(3) of rule 3745-81-51 of the Administrative Code is triggered on or after April 1, 2016, or the director modifies the routine monitoring schedule	6109.04	Federal REQUIRED	40 CFR 141.855	X	X	
3745-81-50	B(1)	SHALL	Each public water system SHALL develop a written sample siting plan by March 31, 2016, that identifies a sample collection schedule and sampling sites that are representative of water throughout the distribution system. Such plans are subject to review and revision by the director. A public water system SHALL collect total coliform samples according to the written sample siting plan. Monitoring REQUIRED in rules 3745-81-51 and 3745-81-52 of the Administrative Code SHALL take place at a designated compliance sampling location. Routine and repeat sample sites and any sampling points necessary to meet rules 3745-81-41 to 3745-81-45 of the Administrative Code SHALL be included in the sample siting plan. Seasonal systems monitoring on a quarterly schedule SHALL designate the time period for monitoring based on site-specific considerations, such as periods of highest demand or highest vulnerability to contamination.	6109.04	Federal REQUIRED	40 CFR 141.853	X	X	
3745-81-50	B(2)	SHALL	Each public water system SHALL monitor with routine samples taken at regular time intervals throughout the month in accordance with the system's sample siting plan, except that systems using only ground water and serving four thousand nine hundred or fewer people may collect all REQUIRED samples on a single day if taken from different sites.	6109.04	Federal REQUIRED	40 CFR 141.853	X	X	
3745-81-50	B(3)	SHALL	Every public water system SHALL take at least the minimum number of REQUIRED samples even if the system has had an Escherichia coli (E. coli) maximum contaminant level violation (MCL) as set forth in rule 3745-81-54 of the Administrative Code or has exceeded the coliform treatment technique triggers as set forth in rule 3745-81-53 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR141.853	X	X	
3745-81-50	B(5)	SHALL	Each public water system SHALL identify repeat monitoring locations in the sample siting plan. Unless the provisions of the following paragraphs are met, the system SHALL monitor with at least one repeat sample from the sampling tap where the original totalcoliform-positive sample was taken, and at least one repeat sample at a tap within five service connections upstream and at least one repeat sample at a tap within five service connections downstream of the original sampling site. If a total coliform-positive sample is at the end of the distribution system, or one service connection away from the end of the distribution system, the system SHALL still take all REQUIRED repeat samples; however, the director may allow an alternative sampling location in lieu of the REQUIREment to monitor with at least one repeat sample upstream or downstream of the original sampling site. Except as provided for in paragraph (B)(5)(b) of this rule, each public water system REQUIRED to conduct triggered source water monitoring as set forth in paragraph (A) of rule 3745-81-42 of the Administrative Code SHALL take a ground water source sample in addition to repeat samples REQUIRED in this rule and rules 3745-81-51 to 3745-81-53 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR141.853	X	X	
3745-81-50	B(5)(a)	SHALL	The system SHALL design the SOP to focus the repeat samples at locations that best verify and determine the extent of potential contamination of the distribution system area based on specific situations.	6109.04	Federal REQUIRED	40 CFR141.853	X	X	

3745-81-50	B(5)(b)(i)	SHALL	If a repeat sample taken at the monitoring location REQUIRED for triggered source water monitoring is E. coli-positive, the public water system is in violation of the MCL for E. coli and SHALL conduct additional source water monitoring in accordance with paragraph (A)(3) of rule 3745-81-42 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR141.853	X	X	
3745-81-50	B(5)(b)(ii)	SHALL	If the system takes more than one repeat sample at the monitoring location for triggered source water monitoring in paragraph (A) of rule 3745-81-42 of the Administrative Code, and more than one repeat sample is E. coli-positive, the system has violated the MCL for E. coli and SHALL comply with rule 3745-81-61 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR141.853	X	X	
3745-81-50	B(6)	SHALL	The system SHALL demonstrate that the sample siting plan remains representative of the water quality in the distribution system.	6109.04	Federal REQUIRED	40 CFR141.853	X	X	
3745-81-50	C	SHALL	Special purpose samples, such as those taken to determine whether disinfection practices are sufficient following pipe placement, replacement or repair, SHALL not be used to determine whether the coliform treatment technique trigger has been exceeded. Repeat samples taken in accordance with rule 3745-81-52 of the Administrative Code are not considered special purpose samples, and SHALL be used to determine whether the coliform treatment technique trigger has been exceeded.	6109.04	Federal REQUIRED	40 CFR141.853	X	X	
3745-81-50	D	SHALL	A public water system SHALL monitor with a replacement sample within twenty-four hours of being notified of the invalid sample. Upon a request from a public water system, the director may extend the twenty-four hour limit on a case-by-case basis when the public water system has a logistical problem collecting the repeat samples within twenty-four hours which is beyond the control of the public water system. When an extension is granted, the time the public water system has to monitor with repeat samples SHALL be specified by the director.	6109.04	Federal REQUIRED	40 CFR141.853	X		
3745-81-50	B	REQUIRE	Monitoring REQUIRED in rules 3745-81-51 and 3745-81-52 of the Administrative Code SHALL take place at a designated compliance sampling location.	6109.04	Federal REQUIRED	40 CFR141.853	X	X	
3745-81-50	B(2)	REQUIRE	Each public water system SHALL monitor with routine samples taken at regular time intervals throughout the month in accordance with the system's sample siting plan, except that systems using only ground water and serving four thousand nine hundred or fewer people may collect all REQUIRED samples on a single day if taken from different sites.	6109.04	Federal REQUIRED	40 CFR 141.853	X	X	
3745-81-50	B(3)	REQUIRE	Every public water system SHALL take at least the minimum number of REQUIRED samples even if the system has had an Escherichia coli (E. coli) maximum contaminant level violation (MCL) as set forth in rule 3745-81-54 of the Administrative Code or has exceeded the coliform treatment technique triggers as set forth in rule 3745-81-53 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR141.853	X	X	
3745-81-50	B(4)	REQUIRE	A public water system may conduct more compliance monitoring than is REQUIRED by this rule and rules 3745-81-51 to 3745-81-53 of the Administrative Code to investigate and discover potential problems in the distribution system	6109.04	Federal REQUIRED	40 CFR141.853	X	X	
3745-81-50	B(5)	REQUIRE	If a total coliform-positive sample is at the end of the distribution system, or one service connection away from the end of the distribution system, the system SHALL still take all REQUIRED repeat samples; however, the director may allow an alternative sampling location in lieu of the REQUIREment to monitor with at least one repeat sample upstream or downstream of the original sampling site. Except as provided for in paragraph (B)(5)(b) of this rule, each public water system REQUIRED to conduct triggered source water monitoring as set forth in paragraph (A) of rule 3745-81-42 of the Administrative Code SHALL take a ground water source sample in addition to repeat samples REQUIRED in this rule and rules 3745-81-51 to 3745-81-53 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR141.853	X	X	
3745-81-50	B(5)(a)	REQUIRE	The director may modify the SOP or REQUIRE alternative monitoring locations as needed.	6109.04		40 CFR141.853	X	x	
3745-81-50	B(5)(b)	REQUIRE	If acceptable to the director, a ground water system with a single well REQUIRED to conduct triggered source water monitoring may take one of the repeat samples at the monitoring location REQUIRED for triggered source water monitoring as set forth in paragraph (A) of rule 3745-81-42 of the Administrative Code if the system demonstrates to the director that the sample siting plan remains representative of water quality in the distribution system.	6109.04	Federal REQUIRED	40 CFR141.853	X	x	

3745-81-50	B(5)(b)(i)	REQUIRE	If a repeat sample taken at the monitoring location REQUIRED for triggered source water monitoring is E. coli-positive, the public water system is in violation of the MCL for E. coli and SHALL conduct additional source water monitoring in accordance with paragraph (A)(3) of rule 3745-81-42 of the Administrative Code. If the system takes more than one repeat sample at the monitoring location REQUIRED for triggered source water monitoring, the system may reduce the number of additional source water samples REQUIRED in paragraph (A)(3) of rule 3745-81-42 of the Administrative Code by the number of repeat samples taken at that location that were not E. coli-positive.	6109.04	Federal REQUIRED	40 CFR141.853	X	x	
3745-81-50	B(5)(b)(iii)	REQUIRE	If all repeat samples taken at the monitoring location REQUIRED for triggered source water monitoring are E. coli-negative and a repeat sample taken at a monitoring location other than the one REQUIRED for triggered source water monitoring is E. coli-positive, the system has violated the MCL for E. coli, but is not REQUIRED to conduct additional source water monitoring in accordance with paragraph (A)(3) of rule 3745-81-42 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR141.853	X	x	
3745-81-50	D	MUST	A routine or repeat total coliform sample MUST be invalidated (unless total coliforms are detected) if the sample exhibits confluent growth or produces colonies too numerous to count with an analytical method using a membrane filtration technique in accordance with the "Ohio EPA Laboratory Manual for the Microbiological Analyses of Public Drinking Water 2014," Chapter 3745-89 of the Administrative Code and rule 3745-81-27 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR141.853	X	x	
3745-81-50	B(4)	MUST	If the additional routine samples are taken in accordance with the existing sample siting plan and are representative of the water throughout the distribution system, the results of the samples MUST be included in calculating whether the coliform treatment technique trigger in paragraph (A)(1)(a) or (A)(1)(b) of rule 3745-81-53 of the Administrative Code has been exceeded.	6109.04	Federal REQUIRED	40 CFR141.853	X	x	
3745-81-51	A	SHALL	Subject to the provisions of paragraph (A) of rule 3745-81-50 of the Administrative Code, all public water systems SHALL conduct routine total coliform monitoring in accordance with this rule beginning April 1, 2016.	6109.04	Federal REQUIRED	40 CFR141.851	X	X	
3745-81-51	A(1)	SHALL	Following any total coliform-positive sample collected in accordance with paragraph (B), (C), (D) or (E) of this rule, public water systems SHALL comply with the repeat monitoring REQUIREments and Escherichia coli (E. coli) analytical REQUIREments in rule 3745-81-52 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.852	X	X	
3745-81-51	A(2)	SHALL	Once all monitoring REQUIRED by paragraph (B), (C), (D) or (E) of this rule and rule 3745-81-52 of the Administrative Code for a calendar month has been completed, public water systems SHALL determine whether any coliform treatment technique triggers have been exceeded in accordance with rule 3745-81-53 of the Administrative Code. If any triggers have been exceeded, public water systems SHALL complete the assessments as REQUIRED in rule 3745-81-53 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.859	X		
3745-81-51	A(2)	REQUIRE	Once all monitoring REQUIRED by paragraph (B), (C), (D) or (E) of this rule and rule 3745-81-52 of the Administrative Code for a calendar month has been completed, public water systems SHALL determine whether any coliform treatment technique triggers have been exceeded in accordance with rule 3745-81-53 of the Administrative Code. If any triggers have been exceeded, public water systems SHALL complete the assessments as REQUIRED in rule 3745-81-53 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.859	X		
3745-81-51	B	SHALL	Noncommunity public water systems using only source water designated as ground water in accordance with rule 3745-81-76 of the Administrative Code and serving not more than one thousand persons SHALL conduct routine total coliform monitoring as follows:	6109.04	Federal REQUIRED	40 CFR 141.854	X		
3745-81-51	B(1)	SHALL	Monitoring for total coliforms SHALL be conducted at a minimum frequency of one sample each calendar quarter that the system provides water to the public, except as REQUIRED by paragraphs (B)(3) to (B)(6) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.854	X		
3745-81-51	B(1)	REQUIRE	Monitoring for total coliforms SHALL be conducted at a minimum frequency of one sample each calendar quarter that the system provides water to the public, except as REQUIRED by paragraphs (B)(3) to (B)(6) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.854	X		
3745-81-51	B(2)	SHALL	Beginning April 1, 2016, the director SHALL perform a detailed monitoring evaluation during each sanitary survey to determine whether the system is on an appropriate routine total coliform monitoring schedule. The director SHALL consider system factors such as pertinent water quality and compliance history, the establishment and maintenance of contamination barriers, and other appropriate protections.	6109.04	Federal REQUIRED	40 CFR141.853	X		

3745-81-51	B(3)	SHALL	Public water system on quarterly monitoring that experiences any of the events identified in this paragraph SHALL begin monthly monitoring during the month following the event. The system SHALL continue monthly monitoring until the director reduces the monitoring frequency after the REQUIREments of paragraph (B)(4) of this rule are met.	6109.04	Federal REQUIRED	40 CFR141.854	X	X	
3745-81-51	B(5)(a)	SHALL	Beginning April 1, 2016, all seasonal public water systems, except as provided by paragraph (B)(5)(d) of this rule, SHALL demonstrate completion of the start-up procedure in the appendix to this rule, which SHALL include start-up total coliform sampling prior to serving water to the public.	6109.04	Federal REQUIRED	40 CFR141.854	X	X	
3745-81-51	B(5)(b)	SHALL	A seasonal system SHALL monitor for total coliforms with a minimum of one sample per month during the system's operating season if, after the director performs a detailed monitoring evaluation during a sanitary survey or limited scope site visit, it is determined the system does not meet any of the exceptions as provided in paragraph (B)(5)(c) or (B)(5)(d) of this rule.	6109.04	Federal REQUIRED	40 CFR141.854	X		
3745-81-51	B(5)(c)	SHALL	Seasonal system that operates a portion of the system for maintenance or caretaker staff on a year round basis SHALL monitor for total coliforms with a minimum of one sample per month during the system's operating season and a minimum of one sample per quarter during the system's closed season.	6109.04		40 CFR141.854	X		
3745-81-51	B(5)(d)	SHALL	A seasonal system that maintains a fully pressurized system throughout the year, other than depressurizations resulting from maintenance or line breaks, SHALL monitor for total coliforms with a minimum of one sample per calendar quarter. These systems SHALL adjust the monitoring frequency or complete elements of the start-up procedure in the appendix to this rule as REQUIRED in writing by the director based on the findings of a sanitary survey or detailed monitoring evaluation. A simplified start-up procedure may be appropriate for these systems due to the potential for deteriorated water quality during extended periods of non-use.	6109.04	Federal REQUIRED	40 CFR141.854	X		
3745-81-51	B(5)(d)	REQUIRE	A seasonal system that maintains a fully pressurized system throughout the year, other than depressurizations resulting from maintenance or line breaks, SHALL monitor for total coliforms with a minimum of one sample per calendar quarter. These systems SHALL adjust the monitoring frequency or complete elements of the start-up procedure in the appendix to this rule as REQUIRED in writing by the director based on the findings of a sanitary survey or detailed monitoring evaluation. A simplified start-up procedure may be appropriate for these systems due to the potential for deteriorated water quality during extended periods of non-use.	6109.04	Federal REQUIRED	40 CFR141.854	X		
3745-81-51	B(6)	SHALL	Public water systems collecting samples on a quarterly frequency SHALL monitor with at least three routine samples during the month following one or more total coliform-positive samples (with or without a level one treatment technique trigger). Systems may either collect samples at regular time intervals throughout the month or may collect all REQUIRED routine samples on a single day if samples are taken from different sites. Systems SHALL use the results of additional routine samples in coliform treatment technique trigger calculations under paragraph (A) of rule 3745-81-53 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR141.854	X	x	
3745-81-51	B(6)	REQUIRE	Public water systems collecting samples on a quarterly frequency SHALL monitor with at least three routine samples during the month following one or more total coliform-positive samples (with or without a level one treatment technique trigger). Systems may either collect samples at regular time intervals throughout the month or may collect all REQUIRED routine samples on a single day if samples are taken from different sites. Systems SHALL use the results of additional routine samples in coliform treatment technique trigger calculations under paragraph (A) of rule 3745-81-53 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR141.854	X	x	
3745-81-51	B(7)(d)	REQUIRE	An approvable plan for corrective action REQUIRED by rule 3745-81-61 of the Administrative Code may also fulfill the REQUIREments of paragraph (B)(7)(c) of this rule for a plan to eliminate the cause of the bacterial contamination.	6109.04	Federal REQUIRED	40 CFR141.854	X		
3745-81-51	B(7)(a)	REQUIRE	The system collected all REQUIRED repeat samples.	6109.04	Federal REQUIRED	40 CFR141.854	X		
3745-81-51	B(8)		If the director approves a postponement of the REQUIREments of paragraph (B)(6) of this rule, the public water system SHALL collect at least three routine total coliform samples during the month after the work to eliminate the source of the bacterial contamination has been completed.	6109.04	Federal REQUIRED	40 CFR141.854	X		

3745-81-51	C(1)	SHALL	Monitoring for total coliforms SHALL be conducted at a minimum frequency of one sample each month that the system provides water to the public.	6109.04	Federal REQUIRED	40 CFR 141.855	X	X	
3745-81-51	C(2)(a)	SHALL	All systems subject to this paragraph SHALL continue to monitor according to the total coliform monitoring schedules established under rule 3745-81-21 of the Administrative Code that were in effect on March 31, 2016, unless otherwise specified by the director.	6109.04	Federal REQUIRED	40 CFR 141.855	X	X	
3745-81-51	C(2)(b)	SHALL	Beginning April 1, 2016, the director SHALL perform a detailed monitoring evaluation during each sanitary survey to determine whether the system is on an appropriate routine total coliform monitoring schedule. The director SHALL consider system factors such as pertinent water quality and compliance history, the establishment and maintenance of contamination barriers, and other appropriate protections.	6109.04	Federal REQUIRED	40 CFR 141.855	X	x	
3745-81-51	D(1)	SHALL	Monitoring for total coliforms SHALL be conducted at a minimum frequency of four samples, taken at regular intervals, during each month the system provides water to the public. Consecutive surface water systems serving not more than one thousand persons SHALL monitor at a minimum of one sample per month that the system serves water to the public.	6109.04	Federal REQUIRED	40 CFR 141.857	X	X	
3745-81-51	D(2)(a)	SHALL	Beginning April 1, 2016, seasonal public water systems subject to this paragraph, except those that maintain a fully pressurized system throughout the year, SHALL demonstrate completion of the start-up procedure in the appendix to this rule, which SHALL include start-up total coliform sampling prior to serving water to the public.	6109.04	Federal REQUIRED	40 CFR 141.857	X	x	
3745-81-51	D(2)(a)	SHALL	A seasonal system that maintains a fully pressurized system throughout the year SHALL complete elements of the start-up procedure in the appendix to this rule as REQUIRED in writing by the director based on the findings of a sanitary survey.	6109.04	Federal REQUIRED	40 CFR 141.857	X		
3745-81-51	D(2)(b)	SHALL	A seasonal system that maintains a fully pressurized system throughout the year SHALL complete elements of the start-up procedure in the appendix to this rule as REQUIRED in writing by the director based on the findings of a sanitary survey.	6109.04	Federal REQUIRED	40 CFR 141.857	X		
3745-81-51	E(1)(a)	SHALL	Beginning April 1, 2016, seasonal public water systems subject to this paragraph, except those that maintain a fully pressurized system throughout the year, SHALL demonstrate completion of the start-up procedure in the appendix to this rule, which SHALL include start-up total coliform sampling prior to serving water to the public.	6109.04	Federal REQUIRED	40 CFR 141.857	X	x	
3745-81-51	E(1)(b)	SHALL	A seasonal system that maintains a fully pressurized system throughout the year SHALL complete elements of the start-up procedure in the appendix to this rule as REQUIRED in writing by the director based on the findings of a sanitary survey.	6109.04	Federal REQUIRED	40 CFR 141.857	X		
3745-81-51	E(1)(b)	REQUIRE	A seasonal system that maintains a fully pressurized system throughout the year SHALL complete elements of the start-up procedure in the appendix to this rule as REQUIRED in writing by the director based on the findings of a sanitary survey.	6109.04	Federal REQUIRED	40 CFR 141.857	X		
3745-81-51	E(3)	SHALL	Public water systems MAY NOT reduce monitoring, except for noncommunity public water systems using only ground water (and not ground water under the direct influence of surface water) and serving more than one thousand persons in any month. In months when more than one thousand persons are served, the systems SHALL monitor at the frequency specified in paragraph (E) of this rule. In months when no more than one thousand persons are served, the director may reduce the monitoring frequency, in writing, to a frequency allowed under paragraph (B) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.857	X		
3745-81-51	E(3)	MAY NOT	Public water systems MAY NOT reduce monitoring, except for noncommunity public water systems using only ground water (and not ground water under the direct influence of surface water) and serving more than one thousand persons in any month. In months when more than one thousand persons are served, the systems SHALL monitor at the frequency specified in paragraph (E) of this rule. In months when no more than one thousand persons are served, the director may reduce the monitoring frequency, in writing, to a frequency allowed under paragraph (B) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.857	X		
3745-81-51	B(4)(e)	REQUIRE	Holds a valid license to operate, unless the system is exempt from being REQUIRED to obtain a license to operate under section 6109.21 of the Revised Code.	6109.04		exceeds 40 CFR 141.857	X		
Appendix 3745-81-51		SHALL	Most of the REQUIREments listed below apply to all seasonal systems. Each applicable element SHALL be completed. The director SHALL provide an appropriate Seasonal Public Water System Start-up REQUIREments and Checklist form and annual start-up certification form to each seasonal system.	6109.04	Federal REQUIRED	40 CFR 141.857	X		

Appendix 3745-81-51		REQUIRE	Beginning April 1, 2016, seasonal noncommunity public water systems are REQUIRED to complete the start-up REQUIREments specified by Ohio Administrative Code (OAC) rule 3745-81-51.	6109.04	Federal REQUIRED	40 CFR 141.857	X		
Appendix 3745-81-51		REQUIRE	Establish an account for electronic reporting with Ohio EPA if the system is REQUIRED to submit monthly operating reports.	6109.04			X		
3745-81-52	A(1)	SHALL	When a sample collected in accordance with rule 3745-81-51 of the Administrative Code is total coliform-positive, the public water system SHALL monitor with a set of three repeat samples within twenty-four hours of being notified of the positive result.	6109.04	Federal REQUIRED	40 CFR 141.858	X	X	
3745-81-52	A(1)(a)	SHALL	The director SHALL not waive the REQUIREment for a system to collect repeat samples in accordance with paragraphs (A)(1) to (A)(3) of this rule.	6109.04	Federal REQUIRED	40 CFR 141.858	X	X	
3745-81-52	A(1)(c)	SHALL	A public water system using the time extension provisions of this paragraph SHALL record the reasons for the delay in collecting repeat samples on the sample submission form.	6109.04	Federal REQUIRED	40 CFR 141.858	X		
3745-81-52	A(1)(d)	SHALL	When an extension is granted by the director, the director SHALL specify how much time the public water system has to monitor with repeat samples.	6109.04	Federal REQUIRED	40 CFR 141.858	X		
3745-81-52	A(2)	SHALL	Public water systems SHALL collect all total coliform repeat samples on the same day.	6109.04	Federal REQUIRED	40 CFR 141.858	X	X	
3745-81-52	A(3)	SHALL	When one or more repeat sample in the current set is total coliform-positive, the public water system SHALL continue to monitor with an additional set of repeat samples in the manner specified in paragraphs (A)(1) to (A)(3) of this rule	6109.04	Federal REQUIRED	40 CFR 141.858	X	X	
3745-81-52	A(6)	SHALL	Results of all routine and repeat samples taken under rule 3745-81-51 and this rule of the Administrative Code not invalidated by the director SHALL be used to determine whether a coliform treatment technique trigger specified in rule 3745-81-53 of the Administrative Code has been exceeded.	6109.04	Federal REQUIRED	40 CFR 141.858	X	X	
3745-81-52	B	SHALL	When any routine or repeat sample is total coliform-positive, the public water system SHALL have that total coliform-positive culture further analyzed to determine if Escherichia coli (E. coli) are present. When E. coli are present, the public water system SHALL notify the director by the end of the day when the system is notified of the test result, unless the system is notified of the result after the director's office is closed, in which case the system SHALL notify the director before the end of the next business day. All repeat sample results SHALL be submitted no later than the end of the next business day following analysis.	6109.04	Federal REQUIRED	40 CFR 141.858	X	X	
3745-81-52	A(4)	REQUIRE	When a trigger identified in rule 3745-81-53 of the Administrative Code is exceeded as a result of a routine sample being total coliform-positive, public water systems are REQUIRED to monitor with only one set of repeat samples for each total coliform-positive routine sample.	6109.04	Federal REQUIRED	40 CFR 141.858	X	X	
3745-81-52	A(1)	REQUIRE	The system MUST collect no fewer than three repeat samples for each total coliform-positive sample.	6109.04	Federal REQUIRED	40 CFR 141.858	X	X	
3745-81-53	A	SHALL	Public water systems SHALL conduct assessments in accordance with paragraph (B) of this rule after exceeding any of the following treatment technique triggers:	6109.04	Federal REQUIRED	40 CFR 141.859	X	X	
3745-81-53	B(1)	SHALL	Public water systems SHALL ensure that level one and level two assessments are conducted in order to identify the possible presence of significant deficiencies and deficiencies in distribution system coliform monitoring practices. Level two assessments SHALL be conducted by a person acceptable by the director.	6109.04	Federal REQUIRED	40 CFR 141.859	X		
3745-81-53	B(2)	SHALL	When conducting assessments, public water systems SHALL ensure that the assessor evaluates minimum elements that include review and identification of inadequacies in sample sites; sampling protocol; sample processing; atypical events that could affect distributed water quality or indicate that distributed water quality was impaired; changes in distribution system maintenance and operation that could affect distributed water quality (including water storage); source and treatment considerations that bear on distributed water quality, where appropriate (e.g., small ground water systems); and existing water quality monitoring data. The system SHALL conduct the assessment consistent with any directives of the director that tailor specific assessment elements with respect to the size and type of the system and the size, type, and characteristics of the distribution system.	6109.04	Federal REQUIRED	40 CFR 141.859	X	X	
3745-81-53	B(3)	SHALL	Level one assessments. A public water system SHALL conduct a level one assessment consistent with REQUIREments set forth by the director if the system exceeds one of the treatment technique triggers in paragraph (A)(1) of this rule. Level one assessments.	6109.04	Federal REQUIRED	40 CFR 141.859	X	X	
3745-81-53	A(1)(c)	REQUIRE	The public water system fails to monitor with all REQUIRED repeat samples following a total coliform-positive sample.	6109.04	Federal REQUIRED	40 CFR 141.859	X	X	

3745-81-53	B(3)(b)	SHALL	The director SHALL consult with the public water system in accordance with rule 3745-81-61 of the Administrative Code. If the director REQUIRES revisions after consultation, the public water system SHALL submit a revised assessment form to the director on an agreed upon schedule not to exceed thirty days from the date of the consultation.	6109.04	Federal REQUIRED	40 CFR 141.859	X		
3745-81-53	B(3)(b)	REQUIRE	If the director REQUIRES revisions after consultation, the public water system SHALL submit a revised assessment form to the director on an agreed upon schedule not to exceed thirty days from the date of the consultation.	6109.04	Federal REQUIRED	40 CFR 141.859	X		
3745-81-53	B(4)	REQUIRE	The public water system SHALL comply with any expedited actions or additional actions REQUIRED by the director in the case of an E. coli MCL.	6109.04	Federal REQUIRED	40 CFR 141.859	X		
3745-81-55	A(1)(a)	SHALL	A public water system SHALL notify the director by the end of the day when the system learns of an E. coli maximum contaminant level violation, unless the system learns of the violation after the director's office is closed, in which case the system SHALL notify the director before the end of the next business day and notify the public in accordance with rule 3745-81-32 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.861	X	X	
3745-81-55	A(1)(b)	SHALL	A public water system SHALL notify the director by the end of the day when the system is notified of an E. coli-positive routine sample, unless the system is notified of the result after the director's office is closed, in which case the system SHALL notify the director before the end of the next business day.	6109.04	Federal REQUIRED	40 CFR 141.861	X	X	
3745-81-55	A(2)	SHALL	A public water system that has violated the treatment technique for coliforms in accordance with rule 3745-81-53 of the Administrative Code SHALL report the violation to the director no later than the end of the next business day after it learns of the violations	6109.04	Federal REQUIRED	40 CFR 141.861	X	X	
3745-81-55	A(3)	SHALL	A public water system REQUIRED to conduct an assessment in accordance with rule 3745-81-53 of the Administrative Code SHALL submit the assessment report within thirty days. The public water system SHALL notify the director, in accordance with paragraph (C)(3) of rule 3745-81-61 of the Administrative Code, when each scheduled corrective action is completed subsequent to submission of the assessment form.	6109.04	Federal REQUIRED	40 CFR 141.861	X	X	
3745-81-55	A(4)	SHALL	A public water system that has failed to comply with a coliform monitoring REQUIREment in accordance with rules 3745-81-50 to 3745-81-52 of the Administrative Code SHALL report the monitoring violation to the director within ten days after the system discovers the violation and notify the public in accordance with rule 3745-81-32 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.861	X	X	
3745-81-55	A(5)	SHALL	A seasonal public water system SHALL certify, a minimum of five days prior to serving water to the public, that the system has complied with the start-up procedure acceptable to the director.	6109.04	Federal REQUIRED	40 CFR 141.861	X		
3745-81-55	B(1)	SHALL	The public water system SHALL maintain any assessment form, regardless of who conducts the assessment, and documentation of corrective actions completed as a result of those assessments, or other available summary documentation of the significant deficiencies and corrective actions conducted in accordance with rules 3745-81-53 and 3745-81-61 of the Administrative Code for review by the director.	6109.04	Federal REQUIRED	40 CFR 141.861	X		
3745-81-55	B(2)	SHALL	This record SHALL be maintained by the public water system for a period not less than five years after completion of the assessment or corrective action.	6109.04	Federal REQUIRED	40 CFR 141.861	X	X	
3745-81-55	B(1)	SHALL	The public water system SHALL maintain a record of any repeat sample taken that meets the director's criteria for an extension of the twenty-four hour period for collecting repeat samples in accordance with paragraph (A)(1) of rule 3745-81-52 of the Administrative Code	6109.04	Federal REQUIRED	40 CFR 141.861	X	X	
3745-81-55	A(3)	REQUIRE	A public water system REQUIRED to conduct an assessment in accordance with rule 3745-81-53 of the Administrative Code SHALL submit the assessment report within thirty days. The public water system SHALL notify the director, in accordance with paragraph (C)(3) of rule 3745-81-61 of the Administrative Code, when each scheduled corrective action is completed subsequent to submission of the assessment form.	6109.04	Federal REQUIRED	40 CFR 141.861	X	X	
3745-81-60	A	MUST	Community water systems MUST undergo a sanitary survey at least every three years. Noncommunity water systems MUST undergo a sanitary survey at least every five years.	6109.04	Federal REQUIRED	40 CFR 142.16	X	X	
3745-81-60	A	SHALL	The director SHALL review the results of each sanitary survey to determine whether the existing monitoring frequency is adequate and what additional measures, if any, the public water system needs to undertake to improve drinking water quality.	6109.04	Federal REQUIRED	40 CFR 142.16	X		

3745-81-60	B	SHALL	In conducting a sanitary survey at a public water system using ground water and having a wellhead protection program approved by the director, information on sources of contamination within the delineated wellhead protection area that was collected in the course of developing and implementing the program should be considered instead of collecting new information, if the information was collected since the last time the public water system was subject to a sanitary survey.	6109.04	Federal REQUIRED	40 CFR 141.401	X		
3745-81-60	C	SHALL	Sanitary surveys SHALL be performed in accordance with procedures approved by the director and will include, but not be limited to an evaluation of public water system components including the source; treatment; distribution system; finished water storage; pump, pump facilities, and controls; monitoring, reporting, and data verification; system management and operation; and operator compliance	6109.04	Federal REQUIRED	40 CFR 142.16	X		
3745-81-60	C	REQUIRE	Public water systems are responsible for ensuring that the REQUIRED sanitary surveys are performed	6109.04			X		
3745-81-60	D	SHALL	A public water system SHALL respond to the director in writing, within thirty days following receipt of a sanitary survey letter, limited scope site visit report or any other inquiry from the director, unless a different response time frame is noted. The response SHALL indicate how and on what schedule the public water system will address any significant deficiencies and violations noted in the correspondence.	6109.04	Exceeds 40 CFR 142.16		X		
3745-81-60	E	SHALL	A public water system SHALL correct significant deficiencies specified in the sanitary survey report, through source water monitoring or a system assessment and according to the schedule accepted by the director as described in rule 3745-81-61 of the Administrative Code. A public water system SHALL also correct violations specified in the sanitary survey or limited scope site visit report according to the schedule accepted by the director	6109.04	Federally REQUIRED	40 CFR 142.16	X		
		SHALL	A public water system SHALL respond to a significant deficiency as REQUIRED by this rule to ensure it is corrected in a timely manner and the public is appropriately notified.	6109.04	Federally REQUIRED	40 CFR 141.403	X		
		REQUIRE	A public water system SHALL respond to a significant deficiency as REQUIRED by this rule to ensure it is corrected in a timely manner and the public is appropriately notified. The director may REQUIRE specific corrective action to correct an identified significant deficiency.	6109.04	Federally REQUIRED	40 CFR 141.403	X		
3745-81-61	A	SHALL	Whenever feasible, a public water system SHALL correct a significant deficiency within thirty days of becoming aware of or being notified of the deficiency.	6109.04	Federally REQUIRED	40 CFR 142.16	X		
3745-81-61	B	SHALL	When a public water system is not able to complete a corrective action for a significant deficiency within thirty days of becoming aware of or being notified of the deficiency, the system SHALL comply with the following to establish an approved schedule for completing corrective actions:	6109.04	Federally REQUIRED	40 CFR 142.16	X		
3745-81-61	B(1)	SHALL	The public water system SHALL submit a plan with a schedule for completing corrective actions, which may be part of a level one or level two assessment report, within thirty days of becoming aware of or being notified of the deficiency.	6109.04	Federally REQUIRED	40 CFR 142.16	X		
3745-81-61	B(2)	SHALL	The director SHALL review the corrective action plan. If the director finds that the proposed corrective actions or schedule are not acceptable, the director SHALL notify the public water system in writing and may consult with the system regarding necessary modifications. The director may specify interim measures for protection of public health. The director SHALL consider appropriate interim measures whenever the corrective actions cannot be completed within one hundred twenty days of the system becoming aware of or being notified of the significant deficiency. After consultation with the director, the public water system SHALL submit a modified plan for corrective actions.	6109.04	Federally REQUIRED	40 CFR 142.16	X		
3745-81-61	C(1)	SHALL	Ground water systems that have a significant deficiency identified under rule 3745-81-42 of the Administrative Code SHALL implement one or more of the following corrective action alternatives in accordance with paragraph (A) or (B) of this rule:	6109.04	Federally REQUIRED	40 CFR 141.40	X		
3745-81-61	C(2)	SHALL	The public water system SHALL complete all corrective actions in accordance with paragraph (A) or (B) of this rule and in compliance with all applicable plan review processes.	6109.04	Federally REQUIRED	40 CFR 142.16	X		
3745-81-61	C(3)	SHALL	The public water system SHALL notify the director when each scheduled corrective action is completed.	6109.04	Federally REQUIRED	40 CFR 142.16	X		

3745-81-61	E(1)	SHALL	In addition to the applicable public notification REQUIREments in paragraph (B)(1)(i) of rule 3745-81-32 of the Administrative Code, a community ground water system that receives notice from the director of a significant deficiency or notification of a fecal indicator-positive ground water source sample that is not invalidated by the director under paragraph (D) of rule 3745-81-42 of the Administrative Code SHALL, in accordance with paragraph (F)(8) of rule 3745-96-02 of the Administrative Code, inform the public served by the water system of the fecal indicator-positive source sample or of any significant deficiency that has not been corrected. The system SHALL continue to inform the public annually until the significant deficiency is corrected or the fecal contamination in the ground water source is determined by the director to be corrected in accordance with paragraphs (A) and (B) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.403	X		
3745-81-61	E(2)	SHALL	In addition to the applicable public notification REQUIREments in paragraph (B)(1)(i) of rule 3745-81-32 of the Administrative Code, a noncommunity ground water system that receives notice from the director of a significant deficiency SHALL inform the public served by the water system in a manner acceptable to the director of any significant deficiency that has not been corrected within twelve months of being notified, or earlier if REQUIRED by the director. The system SHALL continue to inform the public annually until the significant deficiency is corrected. The system SHALL continue to inform the public annually until the significant deficiency is corrected	6109.04	Federally REQUIRED	40 CFR 141.403	X		
3745-81-61	E(2)	REQUIRE	In addition to the applicable public notification REQUIREments in paragraph (B)(1)(i) of rule 3745-81-32 of the Administrative Code, a noncommunity ground water system that receives notice from the director of a significant deficiency SHALL inform the public served by the water system in a manner acceptable to the director of any significant deficiency that has not been corrected within twelve months of being notified, or earlier if REQUIRED by the director. The system SHALL continue to inform the public annually until the significant deficiency is corrected. The system SHALL continue to inform the public annually until the significant deficiency is corrected	6109.04	Federally REQUIRED	40 CFR 141.403	X		
3745-81-61	E(3)	SHALL	If REQUIRED by the director, a noncommunity water system with significant deficiencies that have been corrected SHALL inform its customers of the significant deficiencies, how the deficiencies were corrected and the dates of correction in accordance with paragraph (E)(2) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.403	X		
3745-81-61	E(3)	REQUIRE	If REQUIRED by the director, a noncommunity water system with significant deficiencies that have been corrected SHALL inform its customers of the significant deficiencies, how the deficiencies were corrected and the dates of correction in accordance with paragraph (E)(2) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.403	X		
3745-81-64	B	SHALL	Systems subject to this rule SHALL comply with the following REQUIREments..	6109.04	Federally REQUIRED		X		
3745-81-64	B(1)	SHALL	Systems SHALL conduct an initial and a second round of source water monitoring for each plant that treats a surface water source, in whole or in part. This monitoring may include sampling for Cryptosporidium, E. coli, and turbidity as described in rule 3745-81-65 and paragraph (A) of rule 3745-81-66 of the Administrative Code, to determine what level, if any, of additional Cryptosporidium treatment that SHALL be provided.	6109.04	Federally REQUIRED	Exceeds 40 CFR 141.700. Ohio rules REQUIRED all public water systems using surface water, in whole or in part, to provide filtration treatment	X		
3745-81-64	B(2)	SHALL	Systems that plan to make a significant change to their disinfection practice SHALL develop disinfection profiles and calculate disinfection benchmarks, as described in paragraph (E) of rule 3745-81-72 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.700	X	x	
3745-81-64	B(3)	SHALL	Systems SHALL determine the appropriate Cryptosporidium treatment bin classification as described in paragraphs (A) to (D) of rule 3745-81-67 of the Administrative Code and provide additional treatment for Cryptosporidium, if REQUIRED, as described in paragraph (E) of rule 3745-81-67 of the Administrative Code. Systems SHALL implement Cryptosporidium treatment in accordance with the schedule in paragraph (F) of rule 3745-81-67 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.700	X	x	
3745-81-64	B(4)	SHALL	Systems REQUIRED to provide additional treatment for Cryptosporidium SHALL implement microbial toolbox options that are designed and operated as described in rule 3745-81-68 of the Administrative Code	6109.04	Federally REQUIRED	40 CFR 141.700	X	x	
3745-81-64	B(5)	SHALL	Systems SHALL comply with the applicable recordkeeping and reporting REQUIREments described in rule 3745-81-69 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.700	X	x	

3745-81-64	B(6)	SHALL	Systems SHALL address significant deficiencies identified in sanitary surveys performed by the Ohio environmental protection agency as REQUIRED by rule 3745-81-60 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.700	X		
3745-81-64	A	REQUIRE	However, consecutive systems may receive water that a wholesale system has monitored and treated, if REQUIRED, to comply with the LT2 rule. In this case, the consecutive system is not REQUIRED to conduct additional monitoring or install additional treatment on that water under the REQUIREments of the LT2 rule.	6109.04	Federally REQUIRED		X		
3745-81-64	B(3)	REQUIRE	Systems SHALL determine the appropriate Cryptosporidium treatment bin classification as described in paragraphs (A) to (D) of rule 3745-81-67 of the Administrative Code and provide additional treatment for Cryptosporidium, if REQUIRED, as described in paragraph (E) of rule 3745-81-67 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.700	X		
3745-81-64	B(4)	REQUIRE	Systems REQUIRED to provide additional treatment for Cryptosporidium SHALL implement microbial toolbox options that are designed and operated as described in rule 3745-81-68 of the Administrative Code	6109.04	Federally REQUIRED	40 CFR 141.700	X	x	
3745-81-64	A	MUST	Wholesale systems MUST comply with the REQUIREments of these rules based on the population of the largest system in the combined distribution system.	6109.04	Federally REQUIRED	40 CFR 141.700	X	X	
3745-81-65	A	SHALL	Systems SHALL conduct the following monitoring on the schedule in paragraph (C) of this rule unless they meet the monitoring exemption criteria in paragraph (D) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.701	X		
3745-81-65	A(1)	SHALL	Systems serving at least ten thousand people SHALL sample their source water for Cryptosporidium, E. coli, and turbidity at least monthly for twenty-four months.	6109.04	Federally REQUIRED	40 CFR 141.701	X		
3745-81-65	A(2)	SHALL	Systems serving less than ten thousand people SHALL sample their source water for E. coli at least once every two weeks for twelve months.	6109.04	Federally REQUIRED	40 CFR 141.701	X	X	
3745-81-65	A(3)	SHALL	The system SHALL notify the primacy agency at the time of this REQUIREment, no later than three months prior to the date the system is otherwise REQUIRED to start E. coli monitoring under paragraph (C) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.701	X	X	
3745-81-65	A(3)	REQUIRE	The system SHALL notify the primacy agency at the time of this REQUIREment, no later than three months prior to the date the system is otherwise REQUIRED to start E. coli monitoring under paragraph (C) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.701	X	X	
3745-81-65	A(4)(d)	SHALL	Systems using a well designated as surface water in accordance with rule 3745-81-76 of the Administrative Code SHALL comply with the REQUIREments of paragraph (A)(4) of this rule based on the E. coli level that applies to the nearest surface water body. If no surface water body is nearby, the system SHALL comply based on the REQUIREments that apply to systems using lake/reservoir sources	6109.04	Federally REQUIRED	40 CFR 141.701	X		
3745-81-65	A(5)	SHALL	This acceptance by the primacy agency SHALL be provided to the system in writing and SHALL include the basis for the primacy agency's determination that the alternative indicator	6109.04	Federally REQUIRED	40 CFR 141.701	X		X
3745-81-65	B	SHALL	Systems SHALL conduct this monitoring in accordance with the schedule in paragraph (C) of this rule	6109.04	Federally REQUIRED	40 CFR 141.701	X		
3745-81-65	C	SHALL	Systems SHALL begin the monitoring REQUIRED in paragraphs (A) and (B) of this rule no later than the month beginning with the date listed in this table:	6109.04	Federally REQUIRED	40 CFR 141.701	X	X	
3745-81-65	C	REQUIRE	Systems SHALL begin the monitoring REQUIRED in paragraphs (A) and (B) of this rule no later than the month beginning with the date listed in this table:	6109.04	Federally REQUIRED	40 CFR 141.701	X	X	
		REQUIRE	Systems are not REQUIRED to conduct source water monitoring under this rule if the system will provide a total of at least 5.5-log of treatment for Cryptosporidium,	6109.04	Federally REQUIRED	40 CFR 141.701	X		
3745-81-65	D(2)	SHALL	If a system chooses to provide the level of treatment in paragraph (D)(1) of this rule, as applicable, rather than start source water monitoring, the system SHALL notify the primacy agency at the time of this REQUIREment, in writing no later than the date the system is otherwise REQUIRED to submit a sampling schedule for monitoring in accordance with paragraph (I) of this rule. Alternatively, a system may choose to stop sampling at any point after	6109.04	Federally REQUIRED	40 CFR 141.701	X	x	

3745-81-65	D(2)	REQUIRE	If a system chooses to provide the level of treatment in paragraph (D)(1) of this rule, as applicable, rather than start source water monitoring, the system SHALL notify the primacy agency at the time of this REQUIREment, in writing no later than the date the system is otherwise REQUIRED to submit a sampling schedule for monitoring in accordance with paragraph (I) of this rule. Alternatively, a system may choose to stop sampling at any point after... The primacy agency may REQUIRE additional performance monitoring and reporting	6109.04	Federally REQUIRED	40 CFR 141.701	X	x	
3745-81-65	D(2)	SHALL	The system SHALL obtain plan approval of the treatment process scheme which provides at least 5.5 log of treatment	6109.04	State REQUIRED		X		
3745-81-65	E		Systems that operate for only part of the year SHALL conduct source water monitoring in accordance with this rule with the following modifications	6109.04	Federally REQUIRED	40 CFR 141.701	X	x	
3745-81-65	E(1)	SHALL	Systems SHALL sample their source water only during the months that the plant operates unless the director specifies another monitoring period based on plant operating practices.	6109.04	Federally REQUIRED	40 CFR 141.701	X	x	
3745-81-65	E(2)	SHALL	Systems with plants that operate less than six months per year and that monitor for Cryptosporidium SHALL collect at least six Cryptosporidium samples per year during each of two years of monitoring. Samples SHALL be evenly spaced throughout the period the plant operates.	6109.04	Federally REQUIRED	40 CFR 141.701	X	x	
3745-81-65	F	SHALL	Source water monitoring of new sources SHALL meet the REQUIREments of this rule unless the system meets the monitoring avoidance REQUIREments of paragraph (D) of this rule. The system SHALL also meet the bin classification and Cryptosporidium treatment REQUIREments of paragraphs (A) to (E) of rule 3745-81-67 of the Administrative Code, as applicable, for the new source on a schedule the director approves.	6109.04	Federally REQUIRED	40 CFR 141.701	X	x	
3745-81-65	F(1)	SHALL	An existing system that begins using a new source of surface water after the system is REQUIRED to begin monitoring in accordance with paragraph (C) of this rule, SHALL monitor the new source on a schedule the director approves.	6109.04	Federally REQUIRED	40 CFR 141.701	X	x	
3745-81-65	F(1)	REQUIRE	An existing system that begins using a new source of surface water after the system is REQUIRED to begin monitoring in accordance with paragraph (C) of this rule, SHALL monitor the new source on a schedule the director approves.	6109.04	Federally REQUIRED	40 CFR 141.701	X	x	
3745-81-65	F(3)	SHALL	The system SHALL begin a second round of source water monitoring no later than six years following initial bin classification in accordance with paragraphs (A) to (D) of rule 3745-81-67 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.701	X	x	
3745-81-65	H	SHALL	Grandfathered data may substitute for an equivalent number of months at the end of the monitoring period. All data submitted under this paragraph SHALL meet the REQUIREments in paragraph (B) of rule 3745-81-66 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.701	X	x	
3745-81-65	I(1)	SHALL	Systems REQUIRED to conduct source water monitoring in accordance with paragraphs (A) to (H) of this rule SHALL submit a sampling schedule that specifies the calendar dates when the system will collect each REQUIRED sample.	6109.04	Federally REQUIRED	40 CFR 141.702	X	X	
3745-81-65	I(1)(a)	SHALL	Systems SHALL submit sampling schedules no later than three months prior to the applicable date listed in paragraph (C) of this rule for each round of REQUIRED monitoring.	6109.04	Federally REQUIRED	40 CFR 141.702	X	X	
3745-81-65	I(1)(a)	REQUIRE	Systems SHALL submit sampling schedules no later than three months prior to the applicable date listed in paragraph (C) of this rule for each round of REQUIRED monitoring.	6109.04	Federally REQUIRED	40 CFR 141.702	X	X	
3745-81-65	I(1)(b)	SHALL	Systems serving at least ten thousand people SHALL submit their sampling schedule for the initial round of source water monitoring in accordance with paragraph (A) of this rule to the primacy agency at the time of this REQUIREment electronically.	6109.04	Federally REQUIRED	40 CFR 141.702	X		
3745-81-65	I(1)(c)	SHALL	Systems serving less than ten thousand people SHALL submit their sampling schedules for the initial round of source water monitoring REQUIRED by paragraph (A) of this rule to the primacy agency at the time of this REQUIREment.	6109.04	Federally REQUIRED	40 CFR 141.702	X		
3745-81-65	I(1)(d)	SHALL	Systems SHALL submit sampling schedules for the second round of source water monitoring REQUIRED by paragraph (B) of this rule to the director.	6109.04	Federally REQUIRED	40 CFR 141.702	X		
3745-81-65	I(1)(d)	REQUIRE	Systems SHALL submit sampling schedules for the second round of source water monitoring REQUIRED by paragraph (B) of this rule to the director.	6109.04	Federally REQUIRED	40 CFR 141.702	X		

3745-81-65	I(2)	SHALL	Systems SHALL collect samples within two days before or two days after the dates indicated in their sampling schedule (e.g., within a five day period around the schedule date) unless one of the following conditions applies:	6109.04	Federally REQUIRED	40 CFR 141.702	X	x	
3745-81-65	I(2)(a)	SHALL	If an extreme condition or situation exists that may pose danger to the sample collector, or that cannot be avoided and causes the system to be unable to sample in the scheduled five day period, the system SHALL sample as close to the scheduled date as is feasible unless the primacy agency at the time of this REQUIREment accepts an alternative sampling date. The system SHALL submit an explanation for the delayed sampling date to the primacy agency concurrent with the shipment of the sample to the laboratory.	6109.04	Federally REQUIRED	40 CFR 141.702	X	x	
3745-81-65	I(2)(b)	SHALL	the system SHALL collect a replacement sample. The system SHALL collect the replacement sample not later than twenty-one days after receiving information that an analytical result cannot be reported for the scheduled date unless the system demonstrates that collecting a replacement sample within this time frame is not feasible or the director accepts an alternative resampling date. The system SHALL submit an explanation for the delayed sampling date to the primacy agency at the time of this REQUIREment, concurrent with the shipment of the sample to the laboratory.	6109.04	Federally REQUIRED	40 CFR 141.702	X	x	
3745-81-65	I(3)	SHALL	Systems that fail to meet the criteria of paragraphs I(2)(a) and I(2)(b) of this rule for any source water sample REQUIRED by paragraphs (A) to (H) of this rule SHALL revise their sampling schedules to add dates for collecting all missed samples. Systems SHALL submit the revised schedule to the primacy agency at the time of this REQUIREment, for acceptance prior to when the system begins collecting the missed samples.	6109.04	Federally REQUIRED	40 CFR 141.702	X	x	
3745-81-65	I(3)	REQUIRE	Systems that fail to meet the criteria of paragraphs I(2)(a) and I(2)(b) of this rule SHALL revise their sampling schedules to add dates for collecting all missed samples. Systems SHALL submit the revised schedule to the primacy agency at the time of this REQUIREment, for acceptance prior to when the system begins collecting the missed samples.	6109.04	Federally REQUIRED	40 CFR 141.702	X	x	
3745-81-65	J(1)	SHALL	Systems SHALL collect source water samples prior to chemical treatment, such as coagulants, oxidants and disinfectants, unless the system meets the condition of paragraph J(2) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.703	X		
3745-81-65	J(2)	SHALL	To grant this acceptance, the primacy agency SHALL determine that collecting a sample prior to chemical treatment is not feasible for the system and that the chemical	6109.04	Federally REQUIRED	40 CFR 141.703	X	X	
3745-81-65	J(3)	SHALL	Systems that recycle filter backwash water SHALL collect source water samples prior to the point of filter backwash water addition.	6109.04	Federally REQUIRED	40 CFR 141.703	X	X	
3745-81-65	J(4)(a)	SHALL	Systems that receive Cryptosporidium treatment credit for bank filtration in accordance with paragraph (C) of rule 3745-81-73 of the Administrative Code, as applicable, SHALL collect source water samples in the surface water prior to bank filtration.	6109.04	Federally REQUIRED	40 CFR 141.703	X		
3745-81-65	J(4)(b)	SHALL	Systems that do not receive Cryptosporidium treatment credit for bank filtration in accordance with paragraph (C) of rule 3745-81-73 of the Administrative Code and that use bank filtration as pretreatment to a filtration plant and do not intend to receive Cryptosporidium treatment credit for bank filtration under paragraph (F) of rule 3745-81-68 of the Administrative Code SHALL collect source water samples from the well (e.g., after bank filtration). Use of bank filtration during monitoring SHALL be consistent with routine operational practice.	6109.04	Federally REQUIRED	40 CFR 141.703	X		
3745-81-65	J5(a)	SHALL	The use of multiple sources during monitoring SHALL be consistent with routine operational practice.	6109.04	Federally REQUIRED	40 CFR 141.703	X		
3745-81-65	J5(a)	SHALL	If a sampling tap is available where the sources are combined prior to treatment, systems SHALL collect samples from the tap.	6109.04	Federally REQUIRED	40 CFR 141.703	X	X	
3745-81-65	J(5)(b)	SHALL	If a sampling tap where the sources are combined prior to treatment is not available, systems SHALL collect samples at each source near the intake on the same day and SHALL do either of the following:	6109.04	Federally REQUIRED	40 CFR 141.703	X		
3745-81-65	J(5)(b)(i)	SHALL	The volume of sample from each source SHALL be weighted according to the proportion of the source in the total plant flow at the time the sample is collected.	6109.04	Federally REQUIRED	40 CFR 141.703	X	x	

3745-81-65	J(5)(b)(ii)	SHALL	The weighted average SHALL be calculated by multiplying the analysis result for each source by the fraction the source contributed to total plant flow at the time the sample was collected and then summing these values	6109.04	Federally REQUIRED	40 CFR 141.703	X	x	
3745-81-65	K	SHALL	Systems SHALL submit a description of their sampling location to the primacy agency at the time of this REQUIREment, at the same time as the sampling schedule REQUIRED by paragraph (I) of this rule. This description SHALL address the position of the sampling location in relation to the system's water source and treatment processes, including pretreatment, points of chemical treatment, and filter backwash recycle. If the primacy agency does not respond to a system regarding sampling location, the system SHALL sample at the reported location.	6109.04	Federally REQUIRED	40 CFR 141.703	X	x	
3745-81-65	K	REQUIRE	Systems SHALL submit a description of their sampling location to the primacy agency at the time of this REQUIREment, at the same time as the sampling schedule REQUIRED by paragraph (I) of this rule. This description SHALL address the position of the sampling location in relation to the system's water source and treatment processes, including pretreatment, points of chemical treatment, and filter backwash recycle. If the primacy agency does not respond to a system regarding sampling location, the system SHALL sample at the reported location.	6109.04	Federally REQUIRED	40 CFR 141.703	X	x	
3745-81-65	G	REQUIRE	Failure to collect any source water sample REQUIRED under this rule in accordance	6109.04	Federally REQUIRED	40 CFR 141.703	X		
3745-81-65	I(1)	REQUIRE	Systems REQUIRED to conduct source water monitoring in accordance with paragraphs (A) to (H) of this rule SHALL submit a sampling schedule that specifies the calendar dates when the system will collect each REQUIRED sample.	6109.04	Federally REQUIRED	40 CFR 141.702	X	X	
3745-81-65	J	REQUIRE	Systems REQUIRED to conduct source water monitoring by paragraphs (A) to (H) of this rule SHALL collect samples for each plant that treats a surface water source	6109.04	Federally REQUIRED	40 CFR 141.703	X		
3745-81-66	A(1)	SHALL	Systems SHALL report results from the source water monitoring REQUIRED by paragraphs (A) to (H) of rule 3745-81-65 of the Administrative Code no later than ten days after the end of the first month following the month when the sample is collected.	6109.04	Federally REQUIRED	40 CFR 141.706	X	x	
3745-81-66	A(1)	REQUIRE	Systems SHALL report results from the source water monitoring REQUIRED by paragraphs (A) to (H) of rule 3745-81-65 of the Administrative Code no later than ten days after the end of the first month following the month when the sample is collected.	6109.04	Federally REQUIRED	40 CFR 141.706	X	x	
3745-81-66	A(2)	SHALL	All systems serving at least ten thousand people SHALL report the results from the initial source water monitoring REQUIRED by paragraph (A) of rule 3745-81-65 of the Administrative Code to the primacy agency at the time of this REQUIREment electronically	6109.04	Federally REQUIRED	40 CFR 141.706	X	x	
3745-81-66	A(3)	SHALL	Systems serving less than ten thousand people SHALL report results from the initial source water monitoring REQUIRED by paragraph (A) of rule 3745-81-65 of the Administrative Code to the primacy agency at the time of this REQUIREment.	6109.04	Federally REQUIRED	40 CFR 141.706	X	x	
3745-81-66	A(4)	SHALL	All systems SHALL report results from the second round of source water monitoring REQUIRED by paragraph (B) of rule 3745-81-65 of the Administrative Code to the director	6109.04	Federally REQUIRED	40 CFR 141.706	X	x	
3745-81-66	A(5)	SHALL	Systems SHALL report the following applicable information for the source water monitoring REQUIRED by paragraphs (A) to (H) of rule 3745-81-65 of the Administrative Code	6109.04	Federally REQUIRED	40 CFR 141.706	X	x	
3745-81-66	A(5)(b)	REQUIRE	Systems serving less than ten thousand people that are not REQUIRED to monitor for turbidity in accordance with paragraphs (A) to (H) of rule 3745-81-65 of the Administrative Code are not REQUIRED to report turbidity with their E. coli results.)				X		
3745-81-66	A(5)(a)	SHALL	Systems SHALL report the following information for each Cryptosporidium analysis: For matrix spike samples, systems SHALL also report the sample volume spiked and estimated number of oocysts spiked. These data are not REQUIRED for field samples. systems SHALL also report the number of filters used and the packed pellet volume	6109.04	Federally REQUIRED	40 CFR 141.706	X	x	
3745-81-66	B	REQUIRE	Systems may comply with the initial source water monitoring REQUIREments of paragraph (A) of rule 3745-81-65 of the Administrative Code by grandfathering sample results collected before the system is REQUIRED to begin monitoring (i.e., previously collected data).	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	

3745-81-66	B(1)	REQUIRE	A system that grandfathers Cryptosporidium samples without E. coli and turbidity samples is not REQUIRED to collect E. coli and turbidity samples	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B	SHALL	To be grandfathered, the sample results and analysis SHALL meet the following criteria and SHALL be accepted by the primacy agency at the time of this REQUIREment:	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(2)	SHALL	The analysis of E. coli samples SHALL meet the analytical method and approved laboratory REQUIREments of paragraphs (H) to (J) of rule 3745-81-27 and rule 3745-89-11 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(3)	SHALL	The analysis of Cryptosporidium samples SHALL meet the following criteria:	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(4)	SHALL	The sampling location SHALL meet the conditions of paragraph (J) of rule 3745-81-65 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(5)(b)	SHALL	If the Cryptosporidium sampling frequency varied, systems SHALL follow the monthly averaging procedure in paragraph (A)(5) of rule 3745-81-67 of the Administrative Code, as applicable, when calculating the bin classification for systems	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(6)	SHALL	Systems that request to grandfather previously collected monitoring results SHALL report the following information by the applicable dates listed in this paragraph. Systems SHALL report this information to the primacy agency at the time of this REQUIREment.	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(6)(a)	SHALL	Systems SHALL report that they intend to submit previously collected monitoring results for grandfathering. This report SHALL specify the number of previously collected results the system will submit, the dates of the first and last sample, and whether a system will conduct additional source water monitoring to meet the REQUIREments of paragraph (A) of rule 3745-81-65 of the Administrative Code. Systems SHALL report this information no later than the date the sampling schedule is REQUIRED by paragraph (I) of rule 3745-81-65 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(6)(a)	REQUIRE	Systems SHALL report that they intend to submit previously collected monitoring results for grandfathering. This report SHALL specify the number of previously collected results the system will submit, the dates of the first and last sample, and whether a system will conduct additional source water monitoring to meet the REQUIREments of paragraph (A) of rule 3745-81-65 of the Administrative Code. Systems SHALL report this information no later than the date the sampling schedule is REQUIRED by paragraph (I) of rule 3745-81-65 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(6)(b)	SHALL	No later than two months after the applicable date listed in paragraph (C) of rule 3745-81-65 of the Administrative Code, systems SHALL report previously collected monitoring results	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(6)(b)(i)	SHALL	For each sample result, systems SHALL report the applicable information in paragraph (A) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(6)(b)(ii)	SHALL	Systems SHALL certify that the reported monitoring results include all results the system generated during the time period beginning with the first report result and ending with the final reported result.	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(6)(b)(iii)	SHALL	Systems SHALL certify that the samples were representative of a plant's source water and the source water have not changed. Systems SHALL report a description of the sampling locations, which SHALL address the position of the sampling location	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(7)	SHALL	the samples SHALL provide a letter certifying that the quality control criteria specified in the methods listed in paragraph (B)(3)(a) of this rule were met for each sample batch associated with the reported results.	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(8)	SHALL	Systems SHALL conduct additional monitoring to replace rejected data on a schedule the primacy agency at the time of this REQUIREment accepts. Systems are not REQUIRED to begin this additional monitoring until two months after notification that data have been rejected and additional monitoring is necessary.	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	
3745-81-66	B(8)	REQUIRE	If a system submits previously collected data that fully meet the number of samples REQUIRED for initial source water monitoring in accordance with paragraph (A) of rule 3745-81-65 of the Administrative Code. Systems SHALL conduct additional monitoring to replace rejected data on a schedule the primacy agency at the time of this REQUIREment accepts. Systems are not REQUIRED to begin this additional monitoring until two months after notification that data have been rejected and additional monitoring is necessary.	6109.04	Federally REQUIRED	40 CFR 141.707	X	x	

3745-81-67	A	SHALL	Following completion of the initial round of source water monitoring REQUIRED by paragraph (A) of rule 3745-81-65 of the Administrative Code, systems SHALL calculate an initial Cryptosporidium bin concentration for each plant for which monitoring was REQUIRED. Calculation of the bin concentration SHALL use the Cryptosporidium results reported under paragraph (A) of rule 3745-81-65 of the Administrative Code and SHALL use the following procedures.	6109.04	Federally REQUIRED	40 CFR 141.710	x	x	
3745-81-67	A	REQUIRE	Following completion of the initial round of source water monitoring REQUIRED by paragraph (A) of rule 3745-81-65 of the Administrative Code, systems SHALL calculate an initial Cryptosporidium bin concentration for each plant for which monitoring was REQUIRED. Calculation of the bin concentration SHALL use the Cryptosporidium results reported under paragraph (A) of rule 3745-81-65 of the Administrative Code and SHALL use the following procedures.	6109.04	Federally REQUIRED	40 CFR 141.710	x	x	
3745-81-67	A(5)	SHALL	If the monthly Cryptosporidium sampling frequency varies, systems SHALL first calculate a monthly average for each month of monitoring. Systems SHALL then use these monthly average concentrations, rather than individual sample concentrations, in the applicable calculation for bin classification in paragraphs (A)(1) to (A)(4) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.710	x	x	
3745-81-67	B	SHALL	Systems SHALL determine their initial bin classification from the following table and using the Cryptosporidium bin concentration calculated under paragraphs (A)(1) to (A)(5) of this rule:	6109.04	Federally REQUIRED	40 CFR 141.710	x	x	
3745-81-67	B	SHALL	Systems SHALL report their initial bin classification to the director for approval no later than six months after the system is REQUIRED to complete initial source water monitoring based on the schedule in paragraph (C) of rule 3745-81-65 of the Administrative Code. The bin classification report to the director SHALL include a summary of source water monitoring data and the calculation procedure used to determine bin classification.	6109.04	Federally REQUIRED	40 CFR 141.710	x	x	
3745-81-67	B	SHALL	For systems serving less than one hundred thousand within twelve months after the system is REQUIRED to complete initial source water monitoring, the system SHALL submit a general plan to the director indicating the system's plan for complying with any additional Cryptosporidium inactivation and/or removal REQUIREments. Systems serving at least one hundred thousand people SHALL submit a general plan by March 1, 2010. The general plan SHALL include at a minimum, a description of each toolbox option which may be used, and a schedule for submitting any REQUIRED detail plans and/or protocols/pilot study results for the proposed toolbox option. The general plan SHALL be prepared and submitted by a professional engineer	6109.04	State REQUIRED				
3745-81-67	C	SHALL	Following completion of the second round of source water monitoring REQUIRED in accordance with paragraph (B) of rule 3745-81-65 of the Administrative Code, systems SHALL recalculate their Cryptosporidium bin concentration	6109.04	Federally REQUIRED	40 CFR 141.710	x	x	
3745-81-67	C	SHALL	Systems SHALL then re-determine their bin classification using this bin concentration and the table in paragraph (B) of this rule. Systems SHALL report their bin classification to the director for approval no later than six months after the system is REQUIRED to complete the second round of source water monitoring based on the schedule in paragraph (C) of rule 3745-81-65 of the Administrative Code. The bin classification report to the director SHALL include a summary of source water monitoring data and the calculation procedure used to determine bin classification.	6109.04	Federally REQUIRED	40 CFR 141.710	x	x	
3745-81-67	C	SHALL	Within six months of receiving the director's approval of the bin classification, the system SHALL submit a general plan to the director indicating the system's plan for complying with any additional Cryptosporidium inactivation and/or removal REQUIREments. The general plan SHALL include at a minimum, a description of each toolbox option which may be used, and a schedule for submitting any REQUIRED detail plans and/or protocols/pilot study results for the proposed toolbox option.	6109.04	State REQUIRED				
3745-81-67	E(1)	SHALL	Systems SHALL provide the level of additional treatment for Cryptosporidium specified in this paragraph based on their bin classification as determined in accordance with paragraphs (A) to (D) of this rule	6109.04	Federally REQUIRED	40 CFR 141.711	x	x	

3745-81-67	E(2)	SHALL	Systems SHALL use one or more of the treatment and management options listed in paragraph (A) of rule 3745-81-68 of the Administrative Code, termed the microbial toolbox, to comply with the additional Cryptosporidium treatment REQUIRED in paragraph (E)(1) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.711	x	x	
3745-81-67	E(2)	REQUIRE	Systems SHALL use one or more of the treatment and management options listed in paragraph (A) of rule 3745-81-68 of the Administrative Code, termed the microbial toolbox, to comply with the additional Cryptosporidium treatment REQUIRED in paragraph (E)(1) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.711	x	x	
3745-81-67	E(3)	SHALL	Systems classified in Bin 3 and Bin 4 SHALL achieve at least 1-log of the additional Cryptosporidium treatment REQUIRED under paragraph (E)(1) of this rule using either one or a combination of the following	6109.04	Federally REQUIRED	40 CFR 141.711	x	x	
3745-81-67	E(3)	REQUIRE	Systems classified in Bin 3 and Bin 4 SHALL achieve at least 1-log of the additional Cryptosporidium treatment REQUIRED under paragraph (E)(1) of this rule using either one or a combination of the following	6109.04	Federally REQUIRED	40 CFR 141.711	x	x	
3745-81-67	E(5)	SHALL	significant changes occurred in the system's watershed that could lead to increased contamination of the source water by Cryptosporidium, the system SHALL take actions specified by the director to address the contamination.	6109.04	Federally REQUIRED	40 CFR 141.711	x	x	
3745-81-67	F(1)	SHALL	After the initial bin classification is determined, systems SHALL provide the level of treatment for Cryptosporidium REQUIRED by paragraph (E) of this rule in accordance with the following schedule	6109.04	Federally REQUIRED	41 CFR 141.713	x	x	
3745-81-67	F(2)	SHALL	the system SHALL provide the level of treatment for Cryptosporidium REQUIRED in accordance with paragraph (E) of this rule	6109.04	Federally REQUIRED	41 CFR 141.713	x		
3745-81-67	B	REQUIRE	Systems SHALL report their initial bin classification to the director for approval no later than six months after the system is REQUIRED to complete initial source water monitoring based on the schedule in paragraph (C) of rule 3745-81-65 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.710			
3745-81-67	B	REQUIRE	For systems serving less than one hundred thousand within twelve months after the system is REQUIRED to complete initial source water monitoring, the system SHALL submit a general plan. The general plan SHALL include at a minimum, a description of each toolbox option which may be used, and a schedule for submitting any REQUIRED detail plans and/or protocols/pilot study results for the proposed toolbox option.	6109.04	State REQUIRED	40 CFR 141.710			
3745-81-67	C	REQUIRE	Following completion of the second round of source water monitoring REQUIRED in accordance with paragraph (B) of rule 3745-81-65 of the Administrative Code, systems SHALL recalculate their Cryptosporidium	6109.04	Federally REQUIRED	40 CFR 141.710			
3745-81-67	C	REQUIRE	Systems SHALL report their bin classification to the director for approval no later than six months after the system is REQUIRED to complete the second round of source water monitoring based on the schedule in paragraph (C) of rule 3745-81-65 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.710			
3745-81-67	C	REQUIRE	The general plan SHALL include at a minimum, a description of each toolbox option which may be used, and a schedule for submitting any REQUIRED detail plans and/or protocols/pilot study results for the proposed toolbox option.	6109.04	State REQUIRED				
3745-81-67	E(2)	SHALL	Systems SHALL use one or more of the treatment and management options listed in paragraph (A) of rule 3745-81-68 of the Administrative Code, termed the microbial toolbox, to comply with the additional Cryptosporidium treatment REQUIRED in paragraph (E)(1) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.711	x	x	
3745-81-67	E(3)	SHALL	Systems classified in Bin 3 and Bin 4 SHALL achieve at least 1-log of the additional Cryptosporidium treatment REQUIRED under paragraph (E)(1) of this rule using either one or a combination of the following	6109.04	Federally REQUIRED	40 CFR 141.711	x	x	
3745-81-67	F(1)	SHALL	After the initial bin classification is determined, systems SHALL provide the level of treatment for Cryptosporidium REQUIRED by paragraph (E) of this rule in accordance with the following schedule	6109.04	Federally REQUIRED	41 CFR 141.713	x	x	
3745-81-67	F(1)	REQUIRE	After the initial bin classification is determined, systems SHALL provide the level of treatment for Cryptosporidium REQUIRED by paragraph (E) of this rule in accordance with the following schedule	6109.04	Federally REQUIRED	41 CFR 141.713	x	x	
3745-81-67	F(2)	SHALL	the system SHALL provide the level of treatment for Cryptosporidium REQUIRED in accordance with paragraph (E) of this rule on a schedule the director approves.	6109.04	Federally REQUIRED	41 CFR 141.713	x		

3745-81-68	A	SHALL	Water systems SHALL obtain plan approval by the director for each microbial toolbox option prior to receiving treatment credit for the toolbox option.	6109.04	State REQUIRED				
3745-81-68	A	SHALL	Systems SHALL apply these treatment credits to meet the treatment REQUIRED by paragraph (E) of rule 3745-81-67 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.715			
3745-81-68	A	REQUIRE	Systems SHALL apply these treatment credits to meet the treatment REQUIRED by paragraph (E) of rule 3745-81-67 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.715	x	x	
3745-81-68	A(table)(option1)	REQUIRE	0.5-log credit for director-approved program comprising REQUIRED elements	6109.04	Federally REQUIRED	40 CFR 141.715			
3745-81-68	A(table)(option3)	SHALL	To be eligible, basins SHALL be operated continuously with coagulant addition and all plant flow SHALL pass through basins	6109.04	Federally REQUIRED	40 CFR 141.715			
3745-81-68	A(table)(option 5)	SHALL	All plant flow SHALL pass through both stages	6109.04	Federally REQUIRED	40 CFR 141.715			x
3745-81-68	A(table)(option 16)	REQUIRE	Log credit based on validated UV dose in relation to UV dose table; reactor validation testing REQUIRED to establish UV dose and associated operating conditions.	6109.04	Federally REQUIRED	40 CFR 141.715	x	x	
3745-81-68	A(table)(option4)		0.5-log credit for 25-foot setback; 1.0-log credit for 50-foot setback; aquifer SHALL be unconsolidated sand containing at least 10 per cent fines; average turbidity in wells SHALL be less than 1 NTU. Systems using wells followed by filtration when conducting source water monitoring SHALL sample the well to determine bin classification	6109.04	Federally REQUIRED	40 CFR 141.715	x	x	
3745-81-68	B(1)	SHALL	Systems that intend to apply for the watershed control program credit SHALL notify the director of this intent no later than two year	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	
3745-81-68	B(2)	SHALL	Systems SHALL submit to the director a proposed watershed control plan no later than one year before the applicable treatment compliance date in paragraph (F) of rule 3745-81-67 of the Administrative Code. The director SHALL approve the watershed control plan for the system to receive watershed control program treatment credit. The watershed control plan SHALL include the following elements	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	
3745-81-68	B(2)(a)	SHALL	The area of influence SHALL include, a minimum:	6109.04	Federally REQUIRED	40 CFR 141.716	x		
3745-81-68	B(2)(d)	SHALL	The plan SHALL explain how the actions are expected to contribute to specific goals, identify watershed partners and their roles,	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	
3745-81-68	B(3)	SHALL	Their watershed control plans SHALL meet the criteria in paragraph (B)(2) of this rule and SHALL specify ongoing and future actions that will reduce source water Cryptosporidium	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	
3745-81-68	B(4)	SHALL	Systems SHALL complete the following actions to maintain the 0.5-log credit.						
3745-81-68	B(4)(a)	SHALL	The annual watershed control program status report SHALL describe the system's implementation of the approved plan and assess the adequacy of the plan to meet its goals. It SHALL explain how the system is addressing any shortcomings in plan implementation, including those previously identified. It SHALL also describe any significant changes. If a system determines during implementation that making a significant change to its approved watershed control program is necessary, the system SHALL notify the director prior to making any such changes. If any change is likely to reduce the level of source water protection, the system SHALL also list in its notification the actions the system will take to mitigate this effect.	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	
3745-81-68	B(4)(b)	SHALL	The survey SHALL be conducted according to Ohio environmental protection agency guidelines and by persons acceptable to the director	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	x
3745-81-68	B(4)(b)(1)	SHALL	The watershed sanitary survey SHALL meet the following criteria: encompass the region identified in the director-approved watershed control plan	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	
3745-81-68	B(4)(b)(ii)	SHALL	If the director determines that significant changes may have occurred in the watershed since the previous watershed sanitary survey, systems SHALL undergo	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	
3745-81-68	B(4)(b)(ii)	REQUIRE	systems SHALL undergo another watershed sanitary survey by a date the director REQUIRES, which may be earlier than the regular date in paragraph (B)(4)(b) of this rule	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	
3745-81-68	C(2)	SHALL	If systems conduct alternative source monitoring in accordance with paragraph (C)(1) of this rule, systems SHALL also monitor their current plant intake concurrently as described	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	
3745-81-68	C(3)	SHALL	Alternative source monitoring under paragraph (C)(1) of this rule SHALL meet the REQUIREments for source monitoring to determine bin classification, Systems SHALL report the alternative source monitoring results to the director, along with supporting information documenting	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	
3745-81-68	C(4)	SHALL	The system SHALL relocate the intake or permanently adopt the withdrawal procedure, as applicable..	6109.04	Federally REQUIRED	40 CFR 141.716	x	x	

3745-81-68	D(1)	SHALL	The presedimentation basin SHALL be in continuous operation and SHALL treat the entire plant flow taken from a surface water source	6109.04	Federally REQUIRED	40 CFR 141.717	x	x	
3745-81-68	D(2)	SHALL	The system SHALL continuously add a coagulant to the presedimentation basin.	6109.04	Federally REQUIRED	40 CFR 141.717	x	x	
3745-81-68	D(3)	SHALL	The presedimentation basin SHALL achieve the performance criteria in...	6109.04	Federally REQUIRED	40 CFR 141.717	x	x	
3745-81-68	D(3)(a)	SHALL	This reduction SHALL be determined using daily turbidity measurements in the presedimentation and SHALL be calculated as follows:.. The daily turbidity measurements SHALL be taken under normal operating conditions for that day. Presedimentation operations SHALL not be altered for the sole purpose of influencing sample results.	6109.04	Federally REQUIRED	40 CFR 141.717	x		
3745-81-68	E	SHALL	Both softening stages SHALL treat the entire plant flow taken from a surface water source	6109.04	Federally REQUIRED	40 CFR 141.717	x	x	
3745-81-68	F	SHALL	Systems using bank filtration when they begin source water monitoring in accordance with paragraph (A) of rule 3745-81-65 of the Administrative Code SHALL collect samples	6109.04	Federally REQUIRED	40 CFR 141.717	x	x	
3745-81-68	F(1)	SHALL	The ground water flow path SHALL be determined as specified in paragraph (F)(4) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.717	x	x	
3745-81-68	F(2)	SHALL	A system SHALL characterize the aquifer at...Systems SHALL extract a core from the aquifer and demonstrate that in at least ninety per cent of the core length, grains less than 1.0 millimeters in diameter constitute	6109.04	Federally REQUIRED	40 CFR 141.717	x	x	
3745-81-68	F(5)	SHALL	Systems SHALL monitor each wellhead for turbidity at least once within the first and last hours of bank filtration operation and at least every four hours in between. If monthly average turbidity levels, based on daily maximum values in the well, exceed one NTU, the system SHALL report this result..To maintain the bank filtration treatment credit, the system SHALL implement corrective actions	6109.04	Federally REQUIRED	40 CFR 141.717	x		
3745-81-68	F(7)(a)	SHALL	The study SHALL follow a protocol acceptable to the director and SHALL involve the collection of data	6109.04	Federally REQUIRED	40 CFR 141.717	x	x	
3745-81-68	F(7)(b)	SHALL	Systems SHALL extract a core from the aquifer and demonstrate that in at least ninety per	6109.04	Federally REQUIRED	40 CFR 141.717	x	x	
3745-81-68	G	SHALL	Combined filter effluent (CFE) turbidity SHALL be less than or equal to 0.15 NTU in at least ninety-five per cent of the measurements. Turbidity SHALL be measured as described in paragraph (C)(3) of rule 3745-81-27 and paragraph (A) of rule 3745-81-74 of the Administrative	6109.04	Federally REQUIRED	40 CFR 141.718	x	x	
3745-81-68	H	SHALL	Compliance with these criteria SHALL be based on individual filter turbidity monitoring as described in paragraphs	6109.04	Federally REQUIRED	40 CFR 141.718	x	x	
3745-81-68	H(1)	SHALL	The filtered water turbidity for each individual filter SHALL be less than or equal to 0.15 NTU in at least	6109.04	Federally REQUIRED	40 CFR 141.718	x	x	
3745-81-68	H(2)	SHALL	The demonstration of performance study SHALL follow a protocol acceptable to the director and SHALL demonstrate	6109.04	Federally REQUIRED	40 CFR 141.718	x	x	
3745-81-68	H(3)	SHALL	Approval by the director SHALL be in writing and may include monitoring and treatment performance criteria that that the system SHALL demonstrate and report on an ongoing basis to remain eligible for the treatment credit	6109.04	Federally REQUIRED	40 CFR 141.718	x	x	
3745-81-68	J	SHALL	To be eligible for this credit, systems SHALL report the results of challenge testing that meets the REQUIREments of paragraphs (J)(2) to (J)(9) of this rule. The filters SHALL treat the entire plant flow taken from a surface water source	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	J(1)	SHALL	The Cryptosporidium treatment credit awarded to bag or cartridge filters SHALL be based on the removal efficiency. A factor of safety equal to 1-log for individual bag or cartridge filters and 0.5-log for bag or cartridge filters in series SHALL be applied to challenge testing results to determine removal credit	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	J(2)	SHALL	Challenge testing SHALL be performed on full-scale bag or cartridge filters, and the associated filter housing or pressure vessel, that are identical in material and construction to the filters and housings the system will use for removal of Cryptosporidium. Bag or cartridge filters SHALL be challenge tested in the same configuration	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	J(3)	SHALL	Challenge testing SHALL be conducted using Cryptosporidium or a surrogate that is removed no more efficiently than Cryptosporidium. The concentration of the challenge particulate SHALL be determined using a method capable of discretely quantifying..	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	J(4)	SHALL	The maximum feed water concentration that can be used during a challenge test SHALL be based on detection and SHALL be calculated using	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	J(6)	SHALL	Each filter evaluated SHALL be tested for the duration sufficient to reach one hundred per cent of the terminal pressure drop	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	J(7)	SHALL	Removal efficiency of a filter SHALL be determined from the results of the challenge test. Equation, the same units SHALL be used for the feed and filtrate concentrations. If the challenge particulate is not detected in the filtrate, then the term C _p SHALL be set equal to the detection limit.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	

3745-81-68	J(8)	SHALL	Each filter tested SHALL be challenged with the challenge particulate during three periods over the filtration cycle, An LRV SHALL be calculated for each of these challenge periods for each filter tested. The LRV for the filter (LRVfilter) SHALL be assigned the value of the minimum LRV	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	J(9)	SHALL	If fewer than twenty filters are tested, the overall removal efficiency for the filter product line SHALL be set equal to the lowest LRVfilter among the filters tested. If twenty or more filters are tested, the overall removal efficiency for the filter product line SHALL be set equal to	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	J(7)	SHALL	the removal efficiency of the modified filter SHALL be conducted and submitted to the director.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	J(7)	SHALL							
3745-81-68	K(1)	SHALL	The U.S. EPA "Membrane Guidance Manual for the Final Long Term 2 Enhanced Surface Water Treatment Rule" (November 2005), SHALL be used as a guide in the technical						
3745-81-68	K(1)	SHALL	Systems SHALL keep daily operational logs used to determine monthly compliance with the direct and indirect integrity testing REQUIREments.						
3745-81-68	K(1)	MUST	The operational logs MUST be signed by an operator of record and kept on a form acceptable to the director						
3745-81-68	K(2)	SHALL	The membrane used by the system SHALL undergo challenge testing to evaluate removal efficiency, and the system SHALL report the results of challenge testing to the director. Challenge testing SHALL be conducted according to the criteria in paragraphs (K)(2)(a) to (K)(2)(g) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(2)(a)	SHALL	Challenge testing SHALL be conducted on either a full-scale membrane module..	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(2)(b)	SHALL	Challenge testing SHALL be conducted using Cryptosporidium oocysts or a surrogate. The concentration of the challenge particulate, in both the feed and filtrate water, SHALL be determined using a method capable..	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(2)(c)	SHALL	particulate in the filtrate and SHALL be determined according to the following equation:	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(2)(d)	SHALL	Challenge testing SHALL be conducted under representative hydraulic	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(2)(e)	SHALL	Removal efficiency of a membrane module SHALL be calculated....Equivalent units SHALL be used for the feed and filtrate concentrations.If the challenge particulate is not detected in the filtrate, the term Cp is set equal to the detection limit for the purpose of calculating the LRV. An LRV SHALL be calculated for each membrane module evaluated during the challenge test.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(2)(f)	SHALL	The removal efficiency of a membrane filtration process demonstrated during challenge testing SHALL be expressed as a log removal value (LRVC-Test).	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(2)(g)	SHALL	The challenge test SHALL establish a quality control release value (QCRV) for a non-destructive performance. This performance test SHALL be applied to each production membrane module used by the system	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(2)(g)	SHALL	the modified membrane SHALL be conducted and submitted to the director	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(3)	SHALL	Systems SHALL conduct direct integrity testing in a manner that demonstrates a removal efficiency....	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(3)(a)	SHALL	The direct integrity test SHALL be independently applied to each membrane unit in service.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(3)(b)	SHALL	The direct integrity method SHALL have a resolution of three micrometers or less	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(3)(c)	SHALL	The direct integrity test SHALL have the sensitivity sufficient to verify the log treatment credit approved. Sensitivity SHALL be determined using the approach in either paragraph (K)(3)(c)(i) or (K)(3)(c)(ii)	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(3)(c)(i)	SHALL	the direct integrity test sensitivity SHALL be calculated according to the following equation	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(3)(c)(i)	SHALL	For direct integrity tests that use a particulate or molecular marker, the direct integrity test sensitivity SHALL be calculated according to the following equation:	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(3)(d)	SHALL	Systems SHALL establish a control limit within the sensitivity limits of the direct integrity test that is indicative of	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(3)(e)	SHALL	The system SHALL remove the membrane unit from service. Systems SHALL conduct a direct integrity test to verify any repairs..	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(3)(f)	SHALL	Systems SHALL conduct direct integrity testing on each membrane unit at a frequency	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(4)	SHALL	Systems SHALL conduct continuous indirect integrity monitoring on each membrane unit according to the criteria in paragraphs (K)(4)(a) to (K)(4)(f) of this rule. Systems SHALL submit a monthly report to the director summarizing all continuous indirect integrity monitoring results triggering direct integrity testing and the corrective action that was taken in each case	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(4)(a)	SHALL	Unless the director approves an alternative parameter, continuous indirect integrity monitoring SHALL include continuous filtrate turbidity monitoring.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	

3745-81-68	K(4)(b)	SHALL	Continuous monitoring SHALL be conducted at a frequency of no less than once every fifteen minutes.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(4)(c)	SHALL	Continuous monitoring SHALL be separately conducted on each membrane unit	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(4)(d)	SHALL	direct integrity testing SHALL immediately be performed on the associated membrane unit as specified in paragraphs (K)(3)(a) to (K)(3)(f) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(4)(e)	SHALL	The public water system SHALL validate the continuous measurement for accuracy on a regular basis using a protocol acceptable to the director.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(4)(f)	SHALL	direct integrity testing SHALL immediately be performed on the associated membrane units as specified in paragraphs (K)(3)(a) to (K)(3)(f) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	L	SHALL	To be eligible for this credit, the first stage of filtration SHALL be preceded by a coagulation step and both filtration stages SHALL treat the entire plant flow taken from a surface water source	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	M	SHALL	The director SHALL approve the treatment credit based on an assessment of the design characteristics of the filtration process. T	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	N(1)(a)	SHALL	Systems with treatment credit for chlorine dioxide or ozone under paragraph (N)(2) or (N)(3) of this rule SHALL calculate CT at least once each day,	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	N(1)(b)	SHALL	Under this approach, systems SHALL add the Cryptosporidium CT values	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	N(3)	SHALL	The director SHALL base this approval on a site-specific study a system conducts						
3745-81-68	N(4)	SHALL	Systems SHALL validate and monitor UV reactors as described in paragraphs (N)(4)(b) and (N)(4)(c) of this rule to demonstrate that they are achieving a particular UV dose value for treatment credit.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	N(4)	SHALL	The U.S. EPA "Ultraviolet Disinfection Guidance Manual for the Final Long Term 2 Enhanced Surface Water Treatment Rule" (November 2006), SHALL be used as a guide in the technical review of plans submitted for approval of UV facilities. Systems SHALL keep daily operational logs used to determine monthly compliance with...	6109.04	Federally REQUIRED	40 CFR 141.719	x		
3745-81-68	N(4)(a)	SHALL	To receive treatment credit for other lamp types, systems SHALL demonstrate an equivalent germicidal dose through reactor validation testing	6109.04	Federally REQUIRED	40 CFR 141.719	x		
3745-81-68	N(4)(b)	SHALL	Systems SHALL use UV reactors that have undergone validation testing to determine the operating conditions under which the reactor delivers the UV dose REQUIRED in paragraph (N)(4)(a) of this rule. These operating conditions SHALL...	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	N(4)(b)	REQUIRE	Systems SHALL use UV reactors that have undergone validation testing to determine the operating conditions under which the reactor delivers the UV dose REQUIRED in paragraph (N)(4)(a) of this rule. These operating conditions SHALL...	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	N(4)(b)(ii)	SHALL	Validation testing SHALL include the following:	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	N(4)(C)(i)	SHALL	Systems SHALL monitor their UV reactors to determine if the reactors are operating within validated conditions, as determined under paragraph (N)(4)(b) of this rule. This monitoring SHALL include UV intensity as measured by....Systems SHALL verify the calibration of UV sensors and SHALL recalibrate sensors at least monthly in accordance with a protocol the director accepts. The following parameters SHALL be monitored and recorded at the frequencies indicat	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	N(4)(C)(i)(table)	SHALL	Recording SHALL continue until the alarm..The UV intensity SHALL be greater than..The UVT SHALL be greater than...The validated dose SHALL be greater than...Lamps SHALL be energized if water..The flow rate SHALL be less than or equal...The production volume SHALL be recorded so the off-specification....Calibration SHALL be conducted in accordance....	6109.04	Federally REQUIRED	40 CFR 141.719	x		
3745-81-68	N(4)(C)(i)(table)	MUST	Calibration MUST beconducted in accordance with a protocol acceptable....	6109.04	Federally REQUIRED	40 CFR 141.719	x		
3745-81-68	N(4)(C)(ii)		To receive treatment credit for UV light, systems SHALL treat at least ninety-five per cent of the.. Systems SHALL demonstrate compliance with this condition by the monitoring	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	N(4)(C)(i)(table)	table	REQUIRED conditions for obtaining disinfection..UVT (REQUIRED only if necessary for the dose monitoring strategy ...Calibration of On-line UVT Analyzer (REQUIRED	6109.04	Federally REQUIRED	40 CFR 141.719	x		
3745-81-68	B(5)	MUST	An approvable plan MUST be submitted to maintain the watershed control program treatment credit.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K(1)	MUST	The operational logs MUST be signed by an operator of record and kept on a form acceptable to the director. Operational logs MUST be made available for review upon request.	6109.04	Federally REQUIRED	40 CFR 141.719	x		
3745-81-68	N(4)	MUST	The operational logs MUST be signed by an operator of record and kept on a form acceptable to the director. Operational logs MUST be made available for review	6109.04	Federally REQUIRED	40 CFR 141.719	x		
3745-81-68	N(4)(C)(i)(table)	MUST	Calibration MUST be conducted in accordance with a protocol acceptable	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	

3745-81-68	J(3)	MAY NOT	The concentration of the challenge particulate SHALL be determined using a method capable of discretely quantifying the specific microorganism or surrogate used in the test; gross measurements such as turbidity MAY NOT be used	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-68	K2(b)	MAY NOT	The concentration of the challenge particulate, in both the feed and filtrate water, SHALL be determined using a method capable of discretely quantifying the specific challenge particulate used in the test; gross measurements such as turbidity MAY NOT be used.	6109.04	Federally REQUIRED	40 CFR 141.719	x	x	
3745-81-69	A(1)	SHALL	Systems SHALL report sampling schedules in accordance with paragraph (I) of rule 3745-81-65	6109.04	Federally REQUIRED	40 CFR 141.721	x	x	
3745-81-69	A(2)	SHALL	Systems SHALL report their Cryptosporidium bin classification as described in paragraphs (A) to (6109.04	Federally REQUIRED	40 CFR 141.721	x	x	
3745-81-69	A(3)	SHALL	Systems SHALL report disinfection profiles and benchmarks to the director as described in paragraph €	6109.04	Federally REQUIRED	40 CFR 141.721	x	x	
3745-81-69	A(4)	SHALL	Systems SHALL report to the director in accordance with the following table for any microbial toolbox options used to comply with treatment REQUIREments in accordance with paragraph (E) of rule 3745-81-	6109.04	Federally REQUIRED	40 CFR 141.721	x	x	
3745-81-69	A(4) table	SHALL	Systems SHALL submit the following information (pages 1,2,3,4,5 and 6)	6109.04	Federally REQUIRED	40 CFR 141.721	x	x	
3745-81-69	A(4) table (option 5)	SHALL	If monthly average of daily max turbidity is greater than 1 NTU then system SHALL report result and submit an assessment of the cause.	6109.04	Federally REQUIRED	40 CFR 141.721	x	x	
3745-81-69	B(1)	SHALL	Systems SHALL keep results from the initial round of source water monitoring in accordance	6109.04	Federally REQUIRED	40 CFR 141.722	x	x	
3745-81-69		SHALL	Systems SHALL keep any notification to the director that they will not conduct source water	6109.04	Federally REQUIRED	40 CFR 141.722	x	x	
3745-81-69	A(4)	REQUIRE	Alternatively, the director may approve a system to certify operation within REQUIRED parameters for treatment credit rather than reporting monthly operational data for toolbox options	6109.04	Federally REQUIRED	40 CFR 141.721	x	x	
3745-81-69	A(4) table (option 8)	REQUIRE	As REQUIRED by the director, monthly verification of operation within conditions of director approval for demonstration	6109.04	Federally REQUIRED	40 CFR 141.721	x	x	
3745-81-69	A(4) table (option 15)	REQUIRE	i) Validation test results demonstrating operating conditions that achieve REQUIRED UV dose.	6109.04	Federally REQUIRED	40 CFR 141.721	x	x	
3745-81-70	A	SHALL	Each public water system REQUIRED to monitor under this rule SHALL develop and implement a monitoring plan. The public water system SHALL maintain the plan and make it available for inspection by the director and the general public. All surface water systems serving more than three thousand three hundred people SHALL submit a copy of the monitoring plan. After review, the director may REQUIRE changes in any plan elements. The public water system SHALL modify the plan as REQUIRED by the director. The plan SHALL include at least the specific locations and schedules for collecting samples for any parameters included in this rule, and the plan SHALL include how the public water system will calculate compliance with maximum residual disinfectant levels (MRDLs). If a public water system is approved for monitoring as a consecutive system, or provides water to a consecutive system under the provisions of rule 3745-81-29 of the Administrative Code, its sampling plan SHALL reflect...	6109.04	Federally REQUIRED	40 CFR 141.132	x	x	
3745-81-70	B	SHALL	Public water systems SHALL take all disinfectant residual samples during normal operating conditions.	6109.04	Federally REQUIRED	40 CFR 141.132	x	x	
3745-81-70	D	SHALL	All samples taken and analyzed under the provisions of this rule SHALL be included in determining compliance, even if that number is greater than the minimum REQUIRED						
3745-81-70	E(1)	SHALL	Until March 31, 2016, the residual disinfectant level SHALL be..	6109.04	Federally REQUIRED	40 CFR 141.132	x	x	
3745-81-70	E(2)	SHALL	Beginning April 1, 2016, the residual disinfectant level SHALL..	6109.04	Federally REQUIRED	40 CFR 141.132	x	x	
3745-81-70	E(3)	SHALL	Compliance SHALL be based on a running annual arithmetic average, computed quarterly, of monthly averages of all samples	6109.04	Federally REQUIRED	40 CFR 141.133	x	x	
3745-81-70	F(1)	SHALL	Chlorine dioxide levels SHALL be measured daily...	6109.04	Federally REQUIRED	40 CFR 141.132	x	x	
3745-81-70	F(2)	SHALL	Compliance SHALL be based on consecutive daily samples...If any daily sample exceeds the MRDL, the public water system SHALL take three chlorine	6109.04	Federally REQUIRED	40 CFR 141.133	x	x	
3745-81-70	F(2)(a)	SHALL	The public water system SHALL take the three samples as close to the first customer as possible, at intervals of at least six hours.	6109.04	Federally REQUIRED	40 CFR 141.132	x	x	
3745-81-70	F(2)(b)	SHALL	the public water system SHALL take one sample at each of the following locations: close to the first customer; in a location representative of average residence time; and at a location reflecting maximum residence time in the distribution system.	6109.04	Federally REQUIRED	40 CFR 141.132	x	x	
3745-81-70	F(2)(c)	SHALL	The public water system SHALL take immediate corrective action to lower the level of chlorine dioxide below the MRDL, and SHALL notify the public according to the procedures for acute health risks in rule 3745-81-32	6109.04	Federally REQUIRED	40 CFR 141.133	x	x	
3745-81-70	F(2)(d)	SHALL	The public water system SHALL take corrective action to lower the level of chlorine dioxide below the MRDL at the point of sampling and SHALL notify the public a	6109.04	Federally REQUIRED	40 CFR 141.133	x	x	

3745-81-70	F(3)	SHALL	The public water system SHALL notify the public of the violation according to the provisions for nonacute	6109.04	Federally REQUIRED	40 CFR 141.133	x	x	
3745-81-70	A	SHALL	The director may also REQUIRE any other public water system to submit such a plan. After review, the director may REQUIRE changes in any plan elements	6109.04	Federally REQUIRED	40 CFR 141.132	x	x	
3745-81-70	E(3)	MUST	MRDL and MUST notify the public according to rule 3745-81...	6109.04	Federally REQUIRED	40 CFR 141.133	x	x	
3745-81-70	E(4)	MUST	MRDL violation and the system MUST notify the public of the violation accordin	6109.04	Federally REQUIRED	40 CFR 141.133	x	x	
3745-81-71	A		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	6109.04	Exceeds 40 CFR 141.70				
3745-81-71	B	SHALL	A public water system using a surface water source, in whole or in part, SHALL be in compliance with paragraph	6109.04	Federally REQUIRED	40 CFR 141.70	x	x	
3745-81-71	C	SHALL	The owner of a public water system using a surface water source, in whole or in part, SHALL place.. The operator of record SHALL have a valid certification in accordance with Chapter 3745-7 of the Administrative	6109.04	Federally REQUIRED	40 CFR 141.70	x		
3745-81-71	E	SHALL	A new surface water source SHALL be sampled for twelve consecutive months and analyzed for the contaminants	6109.04	Exceeds 40 CFR 141.70		x		
3745-81-72	A	SHALL	A public water system that uses a surface water source, in whole or in part, SHALL provide the disinfection treatment specified in paragraph. A public water system that uses a surface water source, in whole or in part, and does not already provide filtration treatment SHALL comply with any interim disinfection REQUIREments established by the director before filtration is installed.	6109.04	Federally REQUIRED	40 CFR 141.72. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	B	SHALL	Each public water system that uses a surface water source, in whole or in part, SHALL provide disinfection treatment of the water as follows:	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	B(1)	SHALL	The disinfection treatment SHALL be considered sufficient if the total treatment processes	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	B(2)	SHALL	The filtration and disinfection treatment SHALL include disinfection that	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	B(3)	SHALL	The residual disinfectant concentration in the water entering the distribution system SHALL not be	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	B(4)	SHALL	The residual disinfectant concentration in the distribution system SHALL not be less than 0.2 milligram per liter free	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	c(1)	SHALL	For disinfectants other than UV, tables B-1 to B-13 of this rule SHALL be used to determine the sufficiency of disinfection. Systems using UV to comply with the inactivation REQUIREments of this rule SHALL meet paragraph (N) of rule 3745-81-68 of the Administrative Code.	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	C(2)	SHALL	Only filtered water flow SHALL be used in the REQUIRED CT calculations to meet the minimum log inactivation in table A of this rule, regardless of the disinfectant used	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	C(3)	SHALL	If no interpolation is used, then the REQUIRED CT SHALL be determined at the lower temperature, and at the higher pH, and at the higher residual disinfectant concentration. For Giardia lamblia inactivation at a pH greater than nine, the REQUIRED CT SHALL be the same as the REQUIRED CT at a pH equal to nine. For virus inactivation at a pH greater than nine, the REQUIRED CT SHALL be the same as the REQUIRED CT at a pH equal to ten.	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	C(5)	SHALL	For each clearwell, or contact tank, the approved effective volume factor SHALL be determined. The approved effective volume factor SHALL be the preliminary effective volume factor obtained from figure B-1 of this rule multiplied by the reduction factor obtained from figure B-2 of this rule, rounded down to the nearest 0.05. For a tracer study to be acceptable, the net advection of the tracer SHALL be within ten per cent of the change in the tracer chemical storage within the clearwell system	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	D	SHALL	Public water system that serves a population of less than ten thousand persons and was REQUIRED to develop a disinfection profile or benchmark under 40 CFR 141.530, SHALL follow these REQUIREments:	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		

3745-81-72	D(1)	SHALL	Prior to making a significant change in its disinfection practice, the public water system SHALL submit the disinfection profile to the director for review and consultation	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	D(2)	SHALL	The public water system SHALL calculate its disinfection benchmark using the following procedure:	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	D(2)(b)	SHALL	For each year of profiling data collected and calculated, the public water system SHALL determine the lowest average monthly Giardia lamblia inactivation in each year of profiling data. The average Giardia lamblia inactivation SHALL be determin. For public water systems with a combined population of at least ten thousand persons, daily values SHALL be used. Values for each calendar month for each year of profiling data SHALL be used in the calculation	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	D(3)	SHALL	A public water system that uses chloramines, chlorine dioxide, or ozone for primary disinfection SHALL also calculate the disinfection benchmark for viruses using a	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	D(4)	SHALL	Prior to making a significant change, the public water system SHALL submit the following information for review by the director	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	D(5)	SHALL	The public water system SHALL retain the disinfection profile data in graphic form, as a spreadsheet, or in some other format acceptable to the director for review as part of a sanitary survey. The disinfection profile, disinfection benchmark, and ...The disinfection profile, disinfection benchmark, and all data and analysis used to complete the disinfection profile SHALL be retained by the public	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(1)	SHALL	A system that plans to make a significant change to its disinfection practice, as defined in paragraph (E)(2) of this rule, SHALL develop disinfection profiles and calculate... Prior to changing the disinfection practice, the system SHALL notify the director and SHALL include in this notice the following information: (a)	6109.04	Federally REQUIRED	Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(1)	SHALL	Systems REQUIRED to develop disinfection profiles in accordance with paragraphs (E)(1) and (E)(2) of this rule SHALL monitor at least weekly for a period of twelve consecutive months. Systems that operate for fewer than twelve months per year SHALL monitor weekly during the period of operation. Systems SHALL determine log inactivation for Giardia lamblia and viruses through the entire plant, based on CT99.9 values in tables B-1 to B-13 of this rule, as applicable. Systems SHALL determine log inactivation of viruses through the entire treatment plant based on a protocol accepted by the director.	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(4)	SHALL	Systems with a single point of disinfectant application prior to the entrance to the distribution system SHALL conduct the monitoring in this paragraph. Systems with more than one point of disinfectant application SHALL conduct the monitoring in this paragraph for each disinfection segment. Systems SHALL monitor the parameters necessary to determine the total inactivation	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(4)(a)	SHALL	For systems using a disinfectant other than UV, the temperature of the disinfected water SHALL be measured	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(4)(b)	SHALL	For systems using chlorine, the pH of the disinfected water SHALL be measured at each chlorine residual	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(4)(c)	SHALL	The disinfectant contact time(s), T, SHALL be determined during peak hourly flow.	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(4)(d)	SHALL	The residual disinfectant concentration(s), C, of the water before or at the first customer and prior to each additional point of disinfectant application SHALL be	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(5)(b)	SHALL	Systems that have not developed a virus profile under paragraph (D) of this rule SHALL develop a virus profile using the same monitoring	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		

3745-81-72	E(6)	SHALL	Systems SHALL calculate the total inactivation ratio for Giardia lamblia as specified in paragraphs (E)(6)(a) to (E)(6)(c) of this rule.	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(6)(a)(ii)	SHALL	The system SHALL calculate the total inactivation ratio by determining (CTcalc/CT99.9) for each sequence and then	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(6)(b)	SHALL	Systems using more than one point of disinfectant application before the first customer SHALL determine the CT value...The (CTcalc/CT99.9) value of each segment and (Σ (CTcalc/CT99.9)) SHALL be calculated using the method in paragraph ..	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(6)(c)	SHALL	The system SHALL determine the total logs of inactivation by multiplying the value	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(6)(d)	SHALL	Systems SHALL calculate the log of inactivation for viruses using a protocol approved by the director.	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(7)	SHALL	Systems SHALL use the following procedures to calculate a disinfection benchmark:	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(7)(a)	SHALL	For each year of profiling data collected and calculated under paragraphs (E)(3) to (E)(6) of this rule, systems SHALL determine the lowest average monthly level of both Giardia lamblia and virus inactivation. Systems SHALL determine...	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	Appendix	SHALL	Only filtered water flow SHALL be used in the REQUIRED CT calculations to meet the minimum log inactivation in table.. Values of T SHALL be determined from:	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	C(1)	REQUIRE	Paragraph (B)(1) of this rule REQUIRES a minimum percentage of inactivation and/or removal of Giardia lamblia	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	D	REQUIRE	A public water system that serves a population of at least ten thousand persons and was REQUIRED to develop a disinfection profile or benchmark under 40 CFR 141.172 or 40 CFR 141.170(d), or a community or nontransient noncommunity public water system that serves a population of less than ten thousand persons and was REQUIRED to develop a disinfection profile or benchmark under 40 CFR 141.530, SHALL	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	D(1)	REQUIRE	Such changes may REQUIRE approval if determined substantial by the director..	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	E(3)	REQUIRE	Systems REQUIRED to develop disinfection profiles in accordance with paragraphs (E)(1) and (E)(2) of this rule	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	Appendix	REQUIRE	A treatment technique is REQUIRED in lieu of a maximum contaminant level for Cryptosporidium,	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-72	Appendix	MUST	If this condition is not met, the public water system MUST demonstrate, based on onsite studies or other information, as approved by the director, that the public water system is	6109.04	Federally REQUIRED	40CFR 141.172, 40 CFR 141.170 , 40 CFR 141.530. Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		

3745-81-73	Intro paragraph	SHALL	A public water system that uses a surface water source, in whole or in part, SHALL provide treatment consisting of both.. ground water sources is set forth in rule 3745-81-76 of the Administrative Code. Filtration treatment SHALL consistently and reliably achieve at least ninety-nine per cent (2 log) removal of Cryptosporidium. Failure to meet any REQUIREment of this rule SHALL be a treatment technique violation and SHALL REQUIRE public notification	6109.04	Federally REQUIRED	40 CFR141.173, 40 CFR 141.170, 40 CFR 141.73, 40 CFR 141 .550- 141.553) Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-73	A	SHALL	Conventional filtration treatment or direct filtration treatment. All public water systems using conventional filtration treatment or direct filtration treatment to treat surface water SHALL meet the following	6109.04	Federally REQUIRED	40 CFR141.173, 40 CFR 141.170, 40 CFR 141.73, 40 CFR 141 .550- 141.553) Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-73	A(1)	SHALL	Turbidity levels of representative samples of filtered water SHALL be less than or equal to 0.3 nephelometric turbidity units	6109.04	Federally REQUIRED	40 CFR141.173, 40 CFR 141.170, 40 CFR 141.73, 40 CFR 141 .550- 141.553) Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-73	A(2)	SHALL	The turbidity level of representative samples of a public water system's filtered water SHALL not exceed one NTU.	6109.04	Federally REQUIRED	40 CFR141.173, 40 CFR 141.170, 40 CFR 141.73, 40 CFR 141 .550- 141.553) Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-73	B	SHALL	Slow sand filtration. Filtration by a public water system filtering surface water by slow sand filtration SHALL meet the following:	6109.04	Federally REQUIRED	40 CFR141.173, 40 CFR 141.170, 40 CFR 141.73, 40 CFR 141 .550- 141.553) Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-73	B(1)	SHALL	For a public water system using slow sand filtration, the turbidity level of representative samples of filtered water SHALL	6109.04	Federally REQUIRED	40 CFR141.173, 40 CFR 141.170, 40 CFR 141.73, 40 CFR 141 .550- 141.553) Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-73	B(2)	SHALL	The turbidity level of representative samples of a public water system's filtered water SHALL not exceed five NTU.	6109.04	Federally REQUIRED	40 CFR141.173, 40 CFR 141.170, 40 CFR 141.73, 40 CFR 141 .550- 141.553) Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-73	C	SHALL	For a public water system that makes this demonstration, the minimum log removal and inactivation REQUIREments for conventional filtration in table A of rule 3745-81-72 of the Administrative Code SHALL apply...Each membrane filter which has been awarded credit for log removal as described in this paragraph SHALL undergo direct integrity ...The direct integrity testing REQUIREments in paragraph (K)(3) of rule 3745-81-68 of the Administrative Code SHALL apply.	6109.04	Federally REQUIRED	40 CFR141.173, 40 CFR 141.170, 40 CFR 141.73, 40 CFR 141 .550- 141.553) Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-73	Intro paragraph	REQUIRE	Failure to meet any REQUIREment of this rule SHALL be a treatment technique violation and SHALL REQUIRE public notification	6109.04	Federally REQUIRED	40 CFR141.173, 40 CFR 141.170, 40 CFR 141.73, 40 CFR 141 .550- 141.553) Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-74	Intro paragraph	SHALL	A public water system that uses a surface water source, in whole or in part, SHALL conduct turbidity and disinfection monitoring in accordance with this rule.	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	A	SHALL	Turbidity measurements to ensure compliance with rule 3745-81-73 of the Administrative Code SHALL be performed on representative samples of filtered water at least every four hours that the water...If using grab sampling for turbidity monitoring, samples SHALL be obtained within the first and last hours of filter operation. Systems using grab sampling and monitoring at the clearwell effluent, the plant effluent, or immediately prior to entry into the distribution system SHALL monitor turbidity at least every four hours unless the high service pumps are locked out, samples SHALL be taken during the first and last hours of pump operations, and every four hours in-between.	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	B	SHALL	A public water system using conventional filtration treatment or direct filtration treatment, SHALL also conduct individual filter turbidity monitoring as follows:	6109.04	Federally REQUIRED	40 CFR 141.74	x		

3745-81-74	B(1)	SHALL	The public water system SHALL validate the continuous measurement for accuracy on a regular basis using the protocol acceptable to the director. The public water system SHALL record the results of individual filter monitoring every fifteen minutes. The public water system SHALL record the results of the combined filter monitoring every fifteen minutes.	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	B(2)	SHALL	If there is a failure in the continuous turbidity monitoring equipment, the public water system SHALL conduct grab sampling every four hours in lieu of continuous monitoring	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	C	SHALL	Turbidity analysis SHALL be conducted as specified in paragraph (C) of rule 3745-81-27 of the Administrative Code.	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	D	SHALL	The residual disinfectant concentration of the water entering the distribution system SHALL be monitored continuously, and the lowest value	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	D(1)	SHALL	If there is a failure in the continuous disinfection monitoring equipment, the public water system SHALL conduct	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	D(2)	SHALL	Grab sample monitoring SHALL REQUIRE at least one sample every four hours that the water treatment plant is in operation. Systems SHALL monitor disinfectant residual at least every four hours unless the high service pumps are locked out for a portion of the day. If the pumps are locked out for a portion of the day, samples SHALL be taken during the first and last hours	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	E	SHALL	Until March 31, 2016, the residual disinfectant concentration SHALL...	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	F	SHALL	Beginning April 1, 2016, the residual disinfectant concentration SHALL be..	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	G	SHALL	Parameters necessary to determine the sufficiency of disinfection prior to the first customer as REQUIRED in rule 3745-81-72 of the Administrative Code SHALL be measured and recorded at the peak hourly flow rate each day the public water system is in operation. Temperature, pH, and residual disinfection concentration SHALL be analyzed in accordance with...	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	D(2)	REQUIRE	Grab sample monitoring SHALL REQUIRE at least one sample every four hours that the water treatment plant is in operation	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	G	REQUIRE	Parameters necessary to determine the sufficiency of disinfection prior to the first customer as REQUIRED in rule 3745-81-72 of the Administrative Code SHALL be measured and recorded at the peak hourly flow rate each day the public water system is in operation.	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-74	D	MUST	The residual disinfectant concentration of the water entering the distribution system SHALL be monitored continuously, and the lowest value MUST be recorded	6109.04	Federally REQUIRED	40 CFR 141.74	x		
3745-81-75	Intro paragraph	SHALL	A public water system that uses a surface water source SHALL report monthly to the director the information specified in paragraphs (A) to (F) of this rule. In addition, a public water system that MUST monitor for TTHM, HAA5, bromate, chlorite, total residual chlorine, chlorine dioxide, or TOC SHALL comply...	6109.04	Federally REQUIRED	40 CFR 141.75	x		
3745-81-75	Intro paragraph	MUST	A public water system that uses a surface water source SHALL report monthly to the director the information specified in paragraphs (A) to (F) of this rule. In addition, a public water system that MUST monitor for TTHM, HAA5, bromate, chlorite, total residual chlorine, chlorine dioxide, or TOC SHALL comply...	6109.04	Federally REQUIRED	40 CFR 141.75	x		
3745-81-75	A	SHALL	Turbidity determinations as REQUIRED by paragraph (A) of rule 3745-81-74 of the Administrative Code SHALL be reported to the director within ten days after the end of each month the public water system serves water to the public. The information reported SHALL include the following:	6109.04	Federally REQUIRED	40 CFR 141.175	x	X	
3745-81-75	A	REQUIRE	Turbidity determinations as REQUIRED by paragraph (A) of rule 3745-81-74 of the Administrative Code SHALL be reported to the director within ten days after the end of each month the public water system serves water to the public. The information reported SHALL include the following:	6109.04	Federally REQUIRED	40 CFR 141.175	x	X	
3745-81-75	A(2)	SHALL	For public water systems which continuously monitor turbidity, the duration and per cent of filtered water turbidity readings during the month which are less than or equal to the turbidity limits in paragraph (A)(1) or (B)(1) of rule 3745-81-73 of the Administrative Code SHALL be reported.	6109.04	Federally REQUIRED	40 CFR 141.175	x		
3745-81-75	A(3)	SHALL	For public water systems which continuously monitor turbidity, the date and duration of each period during the month that the turbidity exceeds the turbidity limit specified in paragraph (A)(1) or (B)(1) and paragraph (A)(2) or (B)(2) of rule 3745-81- 73 of the Administrative Code SHALL be reported.	6109.04	Federally REQUIRED	40 CFR 141.175	x		
3745-81-75	B	SHALL	The following individual filter turbidity monitoring activities as REQUIRED by paragraph (B) of rule 3745-81-74 of the Administrative Code SHALL be reported to the director as follows:	6109.04	Federally REQUIRED	40 CFR 141.175	x		
3745-81-75	B	REQUIRE	The following individual filter turbidity monitoring activities as REQUIRED by paragraph (B) of rule 3745-81-74 of the Administrative Code SHALL be reported to the director as follows:	6109.04	Federally REQUIRED	40 CFR 141.175	x		

3745-81-75	B(1)	SHALL	Confirmation that individual filter monitoring was conducted SHALL be reported within ten days after the end of each month the public water system serves water to the public.	6109.04	Federally REQUIRED	40 CFR 141.175	x		
3745-81-75	B(2)	SHALL	Public water systems serving a combined population of at least ten thousand SHALL report individual filter turbidity monitoring results within ten days after the end of each month the public water system serves water to the public...	6109.04	Federally REQUIRED	40 CFR 141.175	x		
3745-81-75	B(2)(a)	SHALL	For any individual filter that has a measured turbidity level of greater than 1.0 nephelometric turbidity units (NTU) in two consecutive measurements taken fifteen minutes apart, the public water system SHALL report the filter number, the turbidity measurements, and the date and times on which the exceedance occurred. In addition, the public water system SHALL either produce a filter profile	6109.04	Federally REQUIRED	40 CFR 141.175	x	X	
3745-81-75	B(2)(b)	SHALL	Public water system SHALL report the filter number, the turbidity measurements, and that date and times on which the exceedance occurred. In addition, the public water system SHALL	6109.04	Federally REQUIRED	40 CFR 141.175	x		
3745-81-75	B(2)(C)	SHALL	The public water system SHALL report the filter number, the turbidity measurements, and the dates and times on which the exceedance occurred. In addition, the public water system SHALL conduct a self-assessment of the filter within fourteen days of the exceedance and report that the self-assessment was conducted. The self assessment SHALL consist of at least the following	6109.04	Federally REQUIRED	40 CFR 141.175	x		
3745-81-75	B(2)(d)	REQUIRE	The director may REQUIRE the public water system to correct any or all of the deficiencies noted in the report	6109.04	Federally REQUIRED	40 CFR 141.175	x		
3745-81-75	B(2)(d)	SHALL	The public water system SHALL report the filter number, the turbidity measurements, and the dates and times on which the exceedance occurred. In addition, no later than thirty days following the exceedance, the public water system SHALL arrange for a comprehensive performance evaluation (CPE) to be conducted by the director. If the director decides not to conduct the CPE, then the CPE SHALL be conducted by a third party in accordance with procedures acceptable to the director. A report of the evaluation SHALL be completed and submitted to the director.	6109.04	Federally REQUIRED	40 CFR 141.175	x		
3745-81-75	B(3)	SHALL	Public water systems serving a combined population of less than ten thousand SHALL report individual filter turbidity monitoring	6109.04	Federally REQUIRED	40 CFR 141.570	x		
3745-81-75	B3(a)	SHALL	The public water system SHALL report the filter number, the turbidity measurements, and the dates and times on which the exceedance occurred. In addition, the public water system SHALL report	6109.04	Federally REQUIRED	40 CFR 141.570, Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-75	B3(b)	SHALL	The public water system SHALL report the filter number, the turbidity measurements, and the dates and times on which the exceedance occurred. In addition, the public water system SHALL conduct a self-assessment of the filter (or both filters if the system monitors the combined filter effluent in lieu of individual filters) within fourteen days of the exceedance and report that the self-assessment was conducted unless the REQUIREment to conduct a comprehensive performance evaluation which includes a self-assessment of this filter is REQUIRED during this time period by paragraph (B)(3)(c) of this rule. The self-assessments SHALL consist of at least the following components: assessment of filter performance; development of a filter profile; identification and prioritization of factors limiting filter performance; assessment of the applicability of corrections; and preparation of a filter self-assessment report	6109.04	Federally REQUIRED	40 CFR 141.570, Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-75	B3(C)	SHALL	The public water system SHALL report the filter number, the turbidity measurements, and the dates and times on which the exceedance occurred. In addition, no later than sixty days following the exceedance, the public water system SHALL arrange for a comprehensive performance evaluation (CPE) to be conducted by the director. A report of the evaluation SHALL be complete and submitted to the director no later than one hundred twenty days following the exceedance.	6109.04	Federally REQUIRED	40 CFR 141.570, Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-75	B3(C)	REQUIRE	The director may REQUIRE the public water system to correct any or all of the deficiencies noted in the report. CPE has been completed within twelve months prior to the exceedance or if the director and public water system are jointly participating in an ongoing comprehensive technical assistance (CTA) at the system, the director MAY NOT REQUIRE a new CPE to be conducted	6109.04	Federally REQUIRED	40 CFR 141.570, Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		
3745-81-75	B3(C)	MAY NOT	The director may REQUIRE the public water system to correct any or all of the deficiencies noted in the report. CPE has been completed within twelve months prior to the exceedance or if the director and public water system are jointly participating in an ongoing comprehensive technical assistance (CTA) at the system, the director MAY NOT REQUIRE a new CPE to be conducted	6109.04	Federally REQUIRED	40 CFR 141.570, Long Term 2 Enhanced Surface Water Treatment Final Rule published January 5, 2006.	x		

3745-81-75	C	SHALL	Disinfection information specified in rule 3745-81-74 of the Administrative Code SHALL be reported to the director within ten days after the end of each month the public water system serves.. The information reported SHALL	6109.04	Federally REQUIRED	40 CFR 141.75	x		
3745-81-75	D	SHALL	Each public water system, upon discovering that a waterborne disease outbreak potentially attributable to that public water system has occurred, SHALL report that occurrence to th	6109.04	Federally REQUIRED	40 CFR 141.75	x		
3745-81-75	E	SHALL	the public water system SHALL notify the director as soon as practical, but no later than twenty-four hours after the exceedance is known..For all other surface water systems, if at any time the turbidity in representative samples of filtered water in accordance with paragraph (A) of rule 3745-81-74 exceeds five NTU, the public water system SHALL notify the director as soon as practical, but no later than twenty-four hours after the exceedance is known.	6109.04	Federally REQUIRED	40 CFR 141.75, 40 CFR 141.175	x		
3745-81-75	F	SHALL	The public water system SHALL notify the director as soon as possible, but no later than by the end of the next business day. The public water system also SHALL notify the director by the end of the next business day whether or not the residual disinfectant concentration	6109.04	Federally REQUIRED	40 CFR 141.75	x		
3745-81-75	G(1)	SHALL	Public water systems monitoring for TTHM and HAA5 under the provisions of rule 3745-81-24 of the Administrative Code SHALL ensure that the analytical results are reported. order to determine compliance with the sample monitoring plan for total TTHM and HAA5, the sample submission reports SHALL contain the sample location description	6109.04	Federally REQUIRED	40 CFR 141.134	x		
3745-81-75	G(1)	SHALL	Compliance with the MCLs for TTHM and HAA5 in rule 3745-81-12 of the Administrative Code SHALL be determined by the director. Exceedance of the operational evaluation level for TTHM and HAA5 in paragraph (D) of rule 3745-81-24 of the Administrative Code SHALL be determined by the director.	6109.04	Federally REQUIRED	40 CFR 141.134	x		x
3745-81-75	G(2)	SHALL	Public water systems monitoring for bromate under rule 3745-81-23 of the Administrative Code SHALL report the following:	6109.04	Federally REQUIRED	40 CFR 141.134	x	x	
3745-81-75	G(3)	SHALL	Public water systems monitoring for chlorite under rule 3745-81-23 of the Administrative Code SHALL report the following:	6109.04	Federally REQUIRED	40 CFR 141.134	x	x	
3745-81-75	G(4)	SHALL	Public water systems monitoring for total chlorine under rule 3745-81-70 of the Administrative Code SHALL report the following	6109.04	Federally REQUIRED	40 CFR 141.134	x	x	
3745-81-75	G(5)	SHALL	Public water systems monitoring for chlorine dioxide under rule 3745-81-70 of the Administrative Code SHALL report the following	6109.04	Federally REQUIRED	40 CFR 141.134	x	x	
3745-81-75	G(6)	SHALL	Public water systems monitoring monthly or quarterly for TOC under rule 3745-81-77 of the Administrative Code and REQUIRED to meet the enhanced coagulation or enhanced softening REQUIREments in rule 3745-81-77 of the Administrative Code SHALL report the following:	6109.04	Federally REQUIRED	40 CFR 141.134	x	x	
3745-81-75	G(6)	REQUIRE	Public water systems monitoring monthly or quarterly for TOC under rule 3745-81-77 of the Administrative Code and REQUIRED to meet the enhanced coagulation or enhanced softening REQUIREments in rule 3745-81-77 of the Administrative Code SHALL report the following:	6109.04	Federally REQUIRED	40 CFR 141.134	x	x	
3745-81-75	G(7)	SHALL	Public water systems monitoring monthly or quarterly for TOC under rule 3745-81-77 of the Administrative Code and meeting one or more of the alternative compliance criteria in rule 3745-81-77 of the Administrative Code SHALL report the following:	6109.04	Federally REQUIRED	40 CFR 141.134	x	x	
3745-81-76	C	SHALL	A public water system SHALL provide information requested by the director within six months of receipt of a written request	6109.04	Federally REQUIRED	40 CFR 141 Subpart H and S	x		X
3745-81-76	D	SHALL	The director SHALL at a minimum consider the following criteria in making a surface water designation for a well:	6109.04	Federally REQUIRED	40 CFR 141 Subpart H and S	x		
3745-81-76	E	SHALL	Assessment source water monitoring as described in paragraph (B) of rule 3745-81-42 of the Administrative Code SHALL be completed	6109.04	Federally REQUIRED	40 CFR 141 Subpart H and S	x		
3745-81-76	F	SHALL	Designation of a public water system's water sources as including surface water SHALL bring this public water system	6109.04	Federally REQUIRED	40 CFR 141 Subpart H and S	x		
3745-81-76	G	SHALL	Designation of a public water system's water sources as including ground water SHALL bring this public water system under....	6109.04	Federally REQUIRED	40 CFR 141 Subpart H and S	x	x	
3745-81-77	A	SHALL	Surface water community and nontransient noncommunity public water systems using conventional filtration treatment SHALL operate..	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	B	SHALL	Surface water systems using conventional filtration treatment SHALL comply with the following monitoring REQUIREments	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	

3745-81-77	B(1)	SHALL	Routine monthly monitoring: public water systems using surface water as a source which use conventional filtration treatment SHALL monitor.. All public water systems REQUIRED to monitor under this paragraph SHALL also monitor for TOC in the source water prior to any treatment at the same time as monitoring for TOC in the treated water. At the same time as the source water sample is taken, all systems SHALL monitor for alkalinity in the source water prior to any treatment.	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	B(1)	REQUIRE	Routine monthly monitoring: public water systems using surface water as a source which use conventional filtration treatment SHALL monitor.. All public water systems REQUIRED to monitor under this paragraph SHALL also monitor for TOC in the source water prior to any treatment at the same time as monitoring for TOC in the treated water. At the same time as the source water sample is taken, all systems SHALL monitor for alkalinity in the source water prior to any treatment.	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	B(3)	SHALL	Surface water conventional treatment systems that cannot achieve the step 1 TOC removals REQUIRED by paragraph (F)(2) of this rule due to water quality parameters or operational constraints SHALL apply to the director, within three months of failure to achieve	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	B(4)	SHALL	Applications made to the director by enhanced coagulation systems for approval of alternative minimum TOC removal (step 2) REQUIREments under paragraph (F)(3) of this rule SHALL include, at a minimum, results of bench- or pilot-scale testing conducted under paragraphs (F)(6) to (F)(9) of this rule. The submitted bench- or pilot-scale testing SHALL be used to determine the alternate enhanced coagulation level	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	G	SHALL	Compliance calculations: surface water systems other than those identified in paragraph (D) or (E) of this rule SHALL comply with REQUIREments contained in paragraph (F)(2) or (F)(3) of this rule. Systems SHALL calculate compliance quarterly, beginning after the system	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	I	SHALL	Each public water system REQUIRED to monitor under this rule SHALL develop and implement a monitoring plan. The public water system SHALL maintain the plan and make it available for inspection by the director. All surface water systems serving more than three thousand three hundred people SHALL submit a copy of the monitoring plan to the director no later than the date of the first report. The public water system SHALL modify the plan as REQUIRED by the director. The plan SHALL include how the public water system will calculate... compliance with the treatment technique for disinfection byproduct precursors.	6109.04	Federally REQUIRED	40 CFR 141.132	x	x	
3745-81-77	C	REQUIRE	This monitoring is not REQUIRED and failure to monitor during this period is not a violation	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	E	REQUIRE	Systems practicing enhanced softening that cannot achieve the TOC removals REQUIRED by paragraph (F)(2) of this rule may use the alternative compliance criteria	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	F(2)	REQUIRE	Systems practicing softening are REQUIRED to meet the step 1 TOC reductions	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	F(2) (TABLE)	REQUIRE	Systems meeting at least one of the conditions in paragraphs (D)(1) to (D)(7) of this rule are not REQUIRED to operate with enhanced coagulation	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	F(3)	REQUIRE	Surface water conventional treatment systems that cannot achieve the step 1 TOC removals REQUIRED by paragraph (F)(2) of this rule due to water quality parameters or operational constraints SHALL apply to the director, within three months	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	F(5)	REQUIRE	Once approved by the director, this minimum REQUIREment supersedes the minimum TOC removal REQUIRED by the table in paragraph (F)(2) of this rule	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	I	REQUIRE	The director may also REQUIRE any other public water system to submit such a plan. After review, the director may REQUIRE changes in any plan elements to ensure monitoring will be adequate for REQUIRED compliance determinations. T	6109.04	Federally REQUIRED	40 CFR 141.132	x	x	
3745-81-77	B(2)	MUST	The public water system MUST revert to routine monitoring in the month following the quarter when	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	C	MUST	However, any public water system that does not monitor during this period, and then determines in the first twelve months after the compliance date that it is not able to meet the step 1 REQUIREments in paragraph (F)(2) of this rule and MUST apply for alternate minimum	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	D	MUST	Public water systems MUST still comply with the monitoring REQUIREments of paragraph (B) of this rule	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	

3745-81-77	D(5)	MUST	Systems MUST submit evidence of a clear and irrevocable financial commitment, in addition to a schedule containing milestones and periodic progress reports for installation and operation of appropriate technologies, to the director for approval.	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	E	MUST	Systems MUST still comply with monitoring REQUIREments in paragraph (B) of this rule.	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	F(1)	MUST	Public water systems MUST achieve the per cent reduction of TOC specified in paragraph	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	F(2)TABLE	MUST	Systems practicing softening MUST meet the TOC removal REQUIREments in this column	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	F(3)	MUST	Until the director approves the alternate minimum TOC removal (step 2) REQUIREments, the system MUST	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	F(6)	MUST	Bench- or pilot-scale testing of enhanced coagulation MUST be conducted by using representative	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-77	F(7)	MUST	For waters with alkalinities of less than 60.0 mg/l for which addition of small amounts of alum or equivalent addition of iron coagulant drives the pH below 5.5 before significant TOC removal occurs, the system MUST add necessary	6109.04	Federally REQUIRED	40 CFR 141.135	x	x	
3745-81-79	Intro Paragraph	SHALL	A surface water system that uses conventional filtration treatment or direct filtration treatment and that recycles spent filter backwash water, thickener supernatant, or liquid from a dewatering process SHALL meet the following:	6109.04	Federally REQUIRED	40 CFR 141.76	x	x	
3745-81-79	A	SHALL	Surface water systems SHALL notify the director in writing if spent filter backwash water, thickener supernatant,	6109.04	Federally REQUIRED	40 CFR 141.76	x	x	
3745-81-79	A(2)	SHALL	All flows SHALL be reported in gallons per minute.	6109.04	Federally REQUIRED	40 CFR 141.76	x	x	
3745-81-79	B	SHALL	Surface water systems which recycle spent filter backwash water, thickener supernatant, or a liquid from a dewatering process SHALL return these flows through the existing conventional filtration..	6109.04	Federally REQUIRED	40 CFR 141.76	x	x	
3745-81-79	C	SHALL	Surface water systems which recycle spent filter backwash water, thickner supernatant, or liquid from a dewatering process SHALL collect..	6109.04	Federally REQUIRED	40 CFR 141.76	x	x	
3745-81-79	A	MUST	This notification MUST include at least the following information:	6109.04	Federally REQUIRED	40 CFR 141.76	x	x	
3745-81-80	(C)(3)(a)	SHALL	The ninetieth percentile lead and copper levels SHALL be computed as follows: (a) The analytical results of all lead or copper samples taken during a monitoring period SHALL be placed in ascending order from the sample with the lowest concentration to the sample with the highest concentration. Each analytical result SHALL be assigned a consecutive whole number, beginning with the number one for the sample with the lowest contaminant level. The number assigned to the sample with the highest contaminant level SHALL be that of the total number of samples analyzed.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(c)(3)(i)		X	#NAME?
3745-81-80	(C)(3)(a)(i)	SHALL	(i) If less than the minimum number of samples REQUIRED by rule 3745-81-86 of the Administrative Code have been taken, the minimum number of samples SHALL be used in calculations.	6109.121, 6109.04					
3745-81-80	(C)(3)(a)(ii)	SHALL	(ii) If greater than or equal to the minimum number of samples REQUIRED by rule 3745-81-86 of the Administrative Code have been taken, the total number of samples SHALL be used in calculations.	6109.121, 6109.04					
3745-81-80	(C)(3)(b)	SHALL	(b) The number of samples taken during the monitoring period SHALL be multiplied by 0.9.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(c)(3)(ii)		X	

3745-81-80	(C)(3)(c)	SHALL	(c) The contaminant concentration in the numbered sample with the number yielded by the calculation in paragraph (C)(3)(b) of this rule is the ninetieth percentile contaminant level. If the result of the calculation in paragraph (C)(3)(b) of this rule is not a whole number, the concentrations for the samples above and below the result SHALL be iterated to yield the ninetieth percentile contaminant level.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.80(c)(3)(iii) by clarifying how to calculate if the result of the calculation is not a whole number.		X	
3745-81-80	(D)(1)	SHALL	All water systems SHALL install and operate optimal corrosion control treatment as defined in rule 3745-81-01 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(d)(1)		X	
3745-81-80	(D)(2)	SHALL	Any water system that complies with the applicable corrosion control treatment REQUIREments approved by the director under rules 3745-81-81 and 3745-81-82 of the Administrative Code SHALL be deemed in compliance with the treatment REQUIREment contained in paragraph (D)(1) of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(d)(2)		X	
3745-81-80	(E)	SHALL	Source water treatment REQUIREments. Any system exceeding the lead or copper action level SHALL implement all applicable source water treatment REQUIREments specified by the director under rule 3745-81-83 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(e)		X	
3745-81-80	(F)	SHALL	Lead service line REQUIREments. Any system that replaces lead service lines, replaces water mains in areas that contain or are likely to contain lead service lines or exceeds the lead action level after implementation of applicable corrosion control and source water treatment REQUIREments SHALL complete the REQUIREments contained in rule 3745-81-84 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.80(f) by applying the REQUIREments of 3745-81-84 to any system replacing an LSL or replaces a water main in areas that contain or are likely to contain LSLs		X	
3745-81-80	(G)(1)	SHALL	Consumer notification. Pursuant to rule 3745-81-85 of the Administrative Code, the owner or operator of a public water system SHALL provide a consumer notice of lead tap water monitoring results to persons served at the sites (taps) that are sampled.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(g)		X	
3745-81-80	(G)(2)	SHALL	Lead public notification. Any system with results of lead tap water monitoring that show an exceedance of the lead action level SHALL provide lead public notification in accordance with rule 3745-81-85 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	E+G1031:M1051xceeds 40 CFR 141.80(g) by establishing specific REQUIREments for lead public notification		X	
3745-81-80	(G)(3)	SHALL	Public education. Any system exceeding the lead action level SHALL implement the public education REQUIREments contained in rule 3745-81-85 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(g)		X	
3745-81-80	(H)	SHALL	Monitoring and analytical REQUIREments. Monitoring of tap water for lead and copper, monitoring for water quality parameters, monitoring of source water at each entry point to the distribution system for lead and copper, and analyses of these monitoring samples SHALL be completed in compliance with rules 3745-81-86 to 3745-81-89 of the Administrative Code and Chapter 3745-89 (laboratory approval) of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(h)		X	
3745-81-80	(I)	SHALL	Reporting REQUIREments. Public water systems SHALL report to the director any information REQUIRED by the treatment provisions of rules 3745-81-80 to 3745-81-90 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(i)		X	
3745-81-80	(J)	SHALL	Recordkeeping REQUIREments. Public water systems SHALL maintain records in accordance with rule 3745-81-90 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(j)		X	
3745-81-80	(K)	SHALL	Violation of primary drinking water regulations. Failure to comply with the applicable REQUIREments of rules 3745-81-80 to 3745-81-90 of the Administrative Code, including REQUIREments established by the director pursuant to these provisions, SHALL constitute a violation of the Administrative Code primary drinking water regulations for lead or copper.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.80(k)		X	

3745-81-81	(A)	SHALL	Public water systems SHALL complete the applicable corrosion control treatment REQUIREments described in rule 3745-81-82 of the Administrative Code by the deadlines established in this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(a)		X	
3745-81-81	(A)(1)	SHALL	A large system (serving more than fifty thousand persons) SHALL complete the corrosion control treatment steps specified in paragraph (D) of this rule, unless otherwise determined by the director.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(a)(1)		X	
3745-81-81	(A)(2)	SHALL	A small system (serving less than or equal to three thousand three hundred persons) and a medium system (serving more than three thousand three hundred and less than or equal to fifty thousand persons) SHALL complete the corrosion control treatment steps specified in paragraph (E) of this rule, unless otherwise determined by the director.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(a)(1)		X	
3745-81-81	(B)	MAY NOT	A public water system is deemed to have optimized corrosion control and MAY NOT be REQUIRED to complete the applicable corrosion control treatment steps identified in this rule if the system satisfies one of the criteria specified in paragraphs (B)(1) to (B)(3) of this rule. Any such system deemed to have optimized corrosion control under this paragraph, and which has treatment in place, SHALL continue to operate and maintain optimal corrosion control treatment and meet any REQUIREments that the director determines appropriate to ensure optimal corrosion control treatment is maintained.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(b) by saying "MAY NOT" instead of "is not"		X	
3745-81-81	(B)	SHALL	A public water system is deemed to have optimized corrosion control and MAY NOT be REQUIRED to complete the applicable corrosion control treatment steps identified in this rule if the system satisfies one of the criteria specified in paragraphs (B)(1) to (B)(3) of this rule. Any such system deemed to have optimized corrosion control under this paragraph, and which has treatment in place, SHALL continue to operate and maintain optimal corrosion control treatment and meet any REQUIREments that the director determines appropriate to ensure optimal corrosion control treatment is maintained.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(b)		X	
3745-81-81	(B)(2)	SHALL	Any public water system may be deemed by the director to have optimized corrosion control treatment if the system demonstrates to the satisfaction of the director that the system has conducted activities equivalent to the corrosion control steps applicable to such system under this rule. If the director makes this determination, the director SHALL provide the system with written notice explaining the basis for the director's decision and SHALL specify the water quality control parameters representing optimal corrosion control in accordance with paragraph (F) of rule 3745-81-82 of the Administrative Code. Water systems deemed to have optimized corrosion control under this paragraph SHALL operate in compliance with the designated optimal water quality control parameters in accordance with paragraph (G) of rule 3745-81-82 of the Administrative Code and continue to conduct lead and copper tap and water quality parameter sampling in accordance with paragraph (D)(3) of rule 3745-81-86 and paragraph (D) of rule 3745-81-87 of the Administrative Code, respectively. A system SHALL provide the director with the following information in order to support a determination under this paragraph: (a) The results of all test samples collected for each of the water quality parameters in paragraph (C)(3) of rule 3745-81-82 of the Administrative Code. (b) A report explaining the test methods used by the water system to evaluate the corrosion control treatments listed in paragraph (C)(1) of rule 3745-81-82 of the Administrative Code, the results of all tests conducted, and the basis for the system's selection of optimal corrosion control treatment. (c) A report explaining how corrosion control has been installed and how it is being maintained to insure minimal lead and copper concentrations at consumers' taps. (d) The results of tap water monitoring with samples collected in accordance with rule 3745-81-86 of the Administrative Code at least once every six months for one year after corrosion control has been installed.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(b)(2)		X	X

3745-81-81	(B)(2)	SHALL	Any public water system may be deemed by the director to have optimized corrosion control treatment if the system demonstrates to the satisfaction of the director that the system has conducted activities equivalent to the corrosion control steps applicable to such system under this rule. If the director makes this determination, the director SHALL provide the system with written notice explaining the basis for the director's decision and SHALL specify the water quality control parameters representing optimal corrosion control in accordance with paragraph (F) of rule 3745-81-82 of the Administrative Code. Water systems deemed to have optimized corrosion control under this paragraph SHALL operate in compliance with the designated optimal water quality control parameters in accordance with paragraph (G) of rule 3745-81-82 of the Administrative Code and continue to conduct lead and copper tap and water quality parameter sampling in accordance with paragraph (D)(3) of rule 3745-81-86 and paragraph (D) of rule 3745-81-87 of the Administrative Code, respectively. A system SHALL provide the director with the following information in order to support a determination under this paragraph: (a) The results of all test samples collected for each of the water quality parameters in paragraph (C)(3) of rule 3745-81-82 of the Administrative Code. (b) A report explaining the test methods used by the water system to evaluate the corrosion control treatments listed in paragraph (C)(1) of rule 3745-81-82 of the Administrative Code, the results of all tests conducted, and the basis for the system's selection of optimal corrosion control treatment. (c) A report explaining how corrosion control has been installed and how it is being maintained to insure minimal lead and copper concentrations at consumers' taps. (d) The results of tap water monitoring with samples collected in accordance with rule 3745-81-86 of the Administrative Code at least once every six months for one year after corrosion control has been installed.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(b)(2)		X	
3745-81-81	(B)(3)	SHALL	Any water system is deemed to have optimized corrosion control if, for two consecutive six-month monitoring periods, the difference between the ninetieth percentile tap water level computed under paragraph (C)(3) of rule 3745-81-80 of the Administrative Code and the highest source water at the entry point to the distribution system lead concentration is less than the practical quantitation level (PQL) of 0.005 milligrams per liter. Monitoring SHALL be conducted in accordance with rules 3745-81-86 and 3745-81-88 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(b)(3)		X	
3745-81-81	(B)(3)(b)	SHALL	Any water system deemed to have optimized corrosion control in accordance with this paragraph SHALL continue monitoring for lead and copper at the tap in accordance with paragraph (C) and paragraph (D) of rule 3745-81-86 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(b)(3)(ii)		X	
3745-81-81	(B)(3)(c)	SHALL	Any water system deemed to have optimized corrosion control in accordance with this paragraph SHALL submit water quality information to the director with plan submittal, as REQUIRED, for any change or modification in treatment or the addition of a new source in accordance with paragraph (A)(3) of rule 3745-81-90 of the Administrative Code. The director SHALL review and approve the addition of a new source or substantial change in treatment before it is implemented by the water system. The director may REQUIRE any such water system to conduct additional monitoring, perform corrosion control studies or to take other action the director deems appropriate to ensure that minimal levels of corrosion in the distribution system are maintained.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(b)(3)(iii) bc it REQUIRES submission of WQ data with notification of change while fed only REQUIRES notification		X	
3745-81-81	(B)(3)(c)	SHALL	Any water system deemed to have optimized corrosion control in accordance with this paragraph SHALL submit water quality information to the director with plan submittal, as REQUIRED, for any change or modification in treatment or the addition of a new source in accordance with paragraph (A)(3) of rule 3745-81-90 of the Administrative Code. The director SHALL review and approve the addition of a new source or substantial change in treatment before it is implemented by the water system. The director may REQUIRE any such water system to conduct additional monitoring, perform corrosion control studies or to take other action the director deems appropriate to ensure that minimal levels of corrosion in the distribution system are maintained.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(b)(3)(iii)		X	X

3745-81-81	(B)(3)(c)	REQUIRE	Any water system deemed to have optimized corrosion control in accordance with this paragraph SHALL submit water quality information to the director with plan submittal, as REQUIRED, for any change or modification in treatment or the addition of a new source in accordance with paragraph (A)(3) of rule 3745-81-90 of the Administrative Code. The director SHALL review and approve the addition of a new source or substantial change in treatment before it is implemented by the water system. The director may REQUIRE any such water system to conduct additional monitoring, perform corrosion control studies or to take other action the director deems appropriate to ensure that minimal levels of corrosion in the distribution system are maintained.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(b)(3)(iii)		X	
3745-81-81	(B)(3)(d)	SHALL	As of the effective date of this rule, a system is not deemed to have optimized corrosion control under this paragraph, and SHALL implement corrosion control treatment pursuant to paragraph (B)(3)(e) of this rule unless the system meets the lead and copper action level.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(b)(3)(iv)		X	
3745-81-81	(B)(3)(e)	SHALL	Any system triggered into corrosion control because it is no longer deemed to have optimized corrosion control under this paragraph SHALL implement corrosion control treatment in accordance with the deadlines in paragraph (E) of this rule. Any such large system SHALL adhere to the schedule specified in that paragraph for medium systems, with the time periods for completing each step being triggered by the date the system is no longer deemed to have optimized corrosion control under this paragraph.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(b)(3)(v)		X	
3745-81-81	(D)	SHALL	Treatment steps for large systems. Except as provided in paragraphs (B)(2) and (B)(3) of this rule, large systems SHALL complete the following corrosion control treatment steps (described in the referenced portions of rules 3745-81-82, 3745-81-86, and 3745-81-87 of the Administrative Code):	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(d)		X	
3745-81-81	(D)(1)	SHALL	Step one: The system SHALL conduct initial monitoring (in accordance with paragraph (D)(1) of rule 3745-81-86 and paragraph (B) of rule 3745-81-87 of the Administrative Code) during two consecutive six-month monitoring periods.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(d)(1)		X	
3745-81-81	(D)(2)	SHALL	Step two: The system SHALL complete corrosion control studies and submit plans for approval for optimal corrosion control treatment (in accordance with paragraph (C) of rule 3745-81-82 of the Administrative Code) within eighteen months after the director REQUIRES that such studies be conducted. The system SHALL submit interim status reports of action taken to complete the studies once every six months from the initiation of the corrosion control studies.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(d)(2) by requiring the PWS to submit 6-month interim status reports		X	
3745-81-81	(D)(3)	SHALL	Step three: The director SHALL complete the review and approval of optimal corrosion control treatment plans (in accordance with paragraph (D) of rule 3745-81-82 of the Administrative Code).	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(d)(3)		X	X
3745-81-81	(D)(4)	SHALL	Step four: The system SHALL install optimal corrosion control treatment (in accordance with paragraph (E) of rule 3745-81-82 of the Administrative Code) within six months after the director approves plans unless an alternative schedule is approved by the director.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(d)(4) by reducing timelines for the installation of OCCT		X	
3745-81-81	(D)(5)	SHALL	Step five: The system SHALL complete follow-up monitoring after installation of treatment (in accordance with paragraph (D)(2) of rule 3745-81-86 of the Administrative Code and paragraph (C) of rule 3745-81-87 of the Administrative Code).	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(d)(5)		X	
3745-81-81	(D)(6)	SHALL	Step six: The director SHALL review installation of treatment and specify optimal water quality parameters (in accordance with paragraph (F) of rule 3745-81-82 of the Administrative Code) after completion of step five.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(d)(6)		X	X

3745-81-81	(D)(7)	SHALL	Step seven: The system SHALL operate in compliance with the director-specified optimal water quality control parameters (in accordance with paragraph (G) of rule 3745-81-82 of the Administrative Code) and continue to conduct tap sampling (in accordance with paragraph (D)(3) of rule 3745-81-86 of the Administrative Code and paragraph (D) of rule 3745-81-87 of the Administrative Code).	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(d)(7)		X	
3745-81-81	(E)	SHALL	Treatment steps and deadlines for small and medium systems. Except as provided in paragraph (B) of this rule, small and medium systems SHALL complete the following corrosion control treatment steps (described in the referenced portions of rules 3745-81-82, 3745-81-86, and 3745-81-87 of the Administrative Code) within the indicated time periods:	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(e)		X	
3745-81-81	(E)(1)	SHALL	Step one: The system SHALL conduct initial tap monitoring (in accordance with paragraph (D)(1) of rule 3745-81-86 of the Administrative Code and paragraph (B) of rule 3745-81-87 of the Administrative Code) until the system either exceeds the lead or copper action level or becomes eligible for reduced monitoring under paragraph (D)(4) of rule 3745-81-86 of the Administrative Code, as follows:	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(e)(1)		X	
3745-81-81	(E)(1)(a)	SHALL	A small system exceeding the lead or copper action level SHALL recommend optimal corrosion control treatment (in accordance with paragraph (A) of rule 3745-81-82 of the Administrative Code), and submit plans if REQUIRED by Chapter 3745-91 of the Administrative Code, within six months after the end of the monitoring period during which it exceeds one of the action levels.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(e)(1)		X	
3745-81-81	(E)(1)(a)	REQUIRE	A small system exceeding the lead or copper action level SHALL recommend optimal corrosion control treatment (in accordance with paragraph (A) of rule 3745-81-82 of the Administrative Code), and submit plans if REQUIRED by Chapter 3745-91 of the Administrative Code, within six months after the end of the monitoring period during which it exceeds one of the action levels.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(e)(1) by requiring plans be submitted as REQUIRED by 3745-91		X	
3745-81-81	(E)(1)(b)	SHALL	A medium system exceeding the lead or copper action level SHALL proceed to step two, paragraph (E)(2) of this rule, requiring corrosion control studies (in accordance with paragraph (B) of rule 3745-81-82 of the Administrative Code).	6109.121, 6109.04	Fed optional	Exceeds 40 CFR 141.81(e)(1) by requiring all medium systems to complete CCT studies		X	
3745-81-81	(E)(1)(b)	REQUIRE	A medium system exceeding the lead or copper action level SHALL proceed to step two, paragraph (E)(2) of this rule, requiring corrosion control studies (in accordance with paragraph (B) of rule 3745-81-82 of the Administrative Code).	6109.121, 6109.04	Fed optional	Exceeds 40 CFR 141.81(e)(1) by requiring all medium systems to complete CCT studies		X	
3745-81-81	(E)(2)	REQUIRE	Step two: Within twelve months after the end of the monitoring period during which a small system exceeds the lead or copper action level, the director may REQUIRE the system to perform corrosion control studies (in accordance with paragraph (B) of rule 3745-81-82 of the Administrative Code). If the director does not REQUIRE the small system to perform such studies, the director SHALL complete the review and approval of optimal corrosion control treatment plans (in accordance with paragraph (D) of rule 3745-81-82 of the Administrative Code) within twelve months after the end of the monitoring period during which the system exceeds the lead or copper action level. Any medium system exceeding the lead or copper action level is REQUIRED to perform corrosion control studies (in accordance with paragraph (B) of rule 3745-81-82 of the Administrative Code).	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(e)(2) by requiring all medium systems to submit CCT studies		X	
3745-81-81	(E)(2)	SHALL	Step two: Within twelve months after the end of the monitoring period during which a small system exceeds the lead or copper action level, the director may REQUIRE the system to perform corrosion control studies (in accordance with paragraph (B) of rule 3745-81-82 of the Administrative Code). If the director does not REQUIRE the small system to perform such studies, the director SHALL complete the review and approval of optimal corrosion control treatment plans (in accordance with paragraph (D) of rule 3745-81-82 of the Administrative Code) within twelve months after the end of the monitoring period during which the system exceeds the lead or copper action level. Any medium system exceeding the lead or copper action level is REQUIRED to perform corrosion control studies (in accordance with paragraph (B) of rule 3745-81-82 of the Administrative Code).	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(e)(2) by shortening agency's review deadline from 24 months to 12 months		X	X
3745-81-81	(E)(3)	REQUIRE	Step three: When the director REQUIRES a system to perform corrosion control studies under step two, the system SHALL complete the studies and submit approvable plans for optimum corrosion control treatment (in accordance with paragraph (C) of rule 3745-81-82 of the Administrative Code) within eighteen months after the director REQUIRES that such studies be conducted. The system SHALL submit interim status reports of action taken to complete the studies once every six months from the initiation of the corrosion control studies.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(e)(3)		X	

3745-81-81	(E)(3)	SHALL	Step three: When the director REQUIRES a system to perform corrosion control studies under step two, the system SHALL complete the studies and submit approvable plans for optimum corrosion control treatment (in accordance with paragraph (C) of rule 3745-81-82 of the Administrative Code) within eighteen months after the director REQUIRES that such studies be conducted. The system SHALL submit interim status reports of action taken to complete the studies once every six months from the initiation of the corrosion control studies.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(e)(3) by requiring 6-month status updates		X	
3745-81-81	(E)(4)	SHALL	Step four: If the system has performed corrosion control studies under step two, the director SHALL complete the review and approval of optimal corrosion control treatment plans (in accordance with paragraph (D) of rule 3745-81-82 of the Administrative Code) after completion of step three.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(e)(4)		X	X
3745-81-81	(E)(5)	SHALL	Step five: The system SHALL install optimal corrosion control treatment (in accordance with paragraph (E) of rule 3745-81-82 of the Administrative Code) within six months after the director approves plans unless an alternative schedule is approved by the director.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(e)(5) by reducing timeline to install from 24 months to 6 months		X	
3745-81-81	(E)(6)	SHALL	Step six: The system SHALL complete follow-up monitoring after installation of treatment (in accordance with paragraphs (D)(2) of rule 3745-81-86 and (C) of rule 3745-81-87 of the Administrative Code).	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(e)(6) by requiring follow-up monitoring be completed immediately after installation (fed rule allowed 36 months to complete)		X	
3745-81-81	(E)(7)	SHALL	Step seven: The director SHALL review the system's installation of treatment and specify optimal water quality control parameters (in accordance with paragraph (F) of rule 3745-81-82 of the Administrative Code) after completion of step six.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(e)(7)		X	X
3745-81-81	(E)(8)	SHALL	Step eight: The system SHALL operate in compliance with the director-specified optimal water quality control parameters (in accordance with paragraph (G) of rule 3745-81-82 of the Administrative Code) and continue to conduct tap sampling (in accordance with paragraphs (D)(3) of rule 3745-81-86 and (D) of rule 3745-81-87 of the Administrative Code).	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.81(e)(8)		X	
3745-81-81	(F)(1)	SHALL	The owner or operator of a water system SHALL provide a new or update an existing corrosion control treatment recommendation, study or submit plans in accordance with paragraph (A) of this rule if any of the following occur:	6109.121, 6109.04	State REQUIRED			X	
3745-81-81	(F)(1)(a)	SHALL	The system changes its water source or adds a new water source. The owner or operator SHALL notify the director prior to changes to the water system source and complete the recommendation, study or submit plans within eighteen months.	6109.121, 6109.04	State REQUIRED			X	
3745-81-81	(F)(1)(b)	SHALL	The system makes a substantial change in water treatment. The owner or operator SHALL notify the director prior to changes in the water system treatment and complete the recommendation, study or submit plans within eighteen months.	6109.121, 6109.04	State REQUIRED			X	
3745-81-81	(F)(1)(c)	SHALL	The system operates out of previously-approved acceptable ranges for lead, copper, pH or other corrosion control indicators, as determined by the director. The owner or operator of the water system SHALL complete the recommendation, study or submit plans within eighteen months after the system operates out of acceptable ranges. If the system exceeds the lead or copper action level while operating out of previously-approved acceptable ranges for pH or other corrosion control indicators, the owner or operator of the water system SHALL review the corrosion control study. If the water quality has not changed, the owner or operator of the water system SHALL submit an updated treatment recommendation. If the water quality has changed, the owner or operator of the water system SHALL complete a new study. The updated treatment recommendation or new study SHALL be completed within eighteen months after the system operates out of acceptable ranges.	6109.121, 6109.04	State REQUIRED			X	
3745-81-81	(F)(1)(d)	SHALL	Any other event determined by the director to have the potential to impact the water quality or corrosiveness of water in the system. The owner or operator of the water system SHALL complete the recommendation, study or submit plans within eighteen months from the date the director provides written notice to the system of such event.	6109.121, 6109.04	State REQUIRED			X	
3745-81-81	(F)(2)	REQUIRE	An owner or operator of a system REQUIRED to provide a treatment recommendation, complete a corrosion control treatment study or submit a plan in accordance with paragraph (F)(1) of this rule, SHALL notify any consecutive or wholesale system of their new or updated treatment recommendation, corrosion control treatment study or plan.	6109.121, 6109.04					
3745-81-81	(F)(2)	SHALL	An owner or operator of a system REQUIRED to provide a treatment recommendation, complete a corrosion control treatment study or submit a plan in accordance with paragraph (F)(1) of this rule, SHALL notify any consecutive or wholesale system of their new or updated treatment recommendation, corrosion control treatment study or plan.	6109.121, 6109.04					

3745-81-81	(F)(3)	REQUIRE	An owner or operator of a system REQUIRED to provide a treatment recommendation, complete a corrosion control treatment study or submit a plan in accordance with paragraph (F)(1) of this rule, SHALL complete the recommendation, study or submit the plan to the director for approval even if sampling results conducted subsequent to the initiation of the study and plan do not exceed the lead action level.	6109.121, 6109.04					
3745-81-81	(F)(3)	SHALL	An owner or operator of a system REQUIRED to provide a treatment recommendation, complete a corrosion control treatment study or submit a plan in accordance with paragraph (F)(1) of this rule, SHALL complete the recommendation, study or submit the plan to the director for approval even if sampling results conducted subsequent to the initiation of the study and plan do not exceed the lead action level.	6109.121, 6109.04					
3745-81-81	(G)	REQUIRE	The director may waive the REQUIREment to conduct a new or updated corrosion control recommendation, study or submit plans as REQUIRED in paragraph (F) of this rule upon demonstration by the system that items under paragraphs (F)(1)(a) to (F)(1)(c) of this rule will not have the potential to or will not impact the water quality or corrosiveness of the system.	6109.121, 6109.04	State REQUIRED			X	
3745-81-82	N/A	SHALL	Each public water system SHALL complete the corrosion control treatment REQUIREments described below which are applicable to such system under rule 3745-81-81 of the Administrative Code.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82 Introduction	X	X	
3745-81-82	A	SHALL	Small public water system recommendation regarding corrosion control treatment. Based upon the results of lead and copper tap monitoring and water quality parameter monitoring, small water systems exceeding the lead or copper action level SHALL recommend installation of and submit plans for one or more of the corrosion control treatments listed in paragraph (C)(1) of this rule which the system believes constitute optimal corrosion control for that system. The director may REQUIRE the small system to conduct additional water quality parameter monitoring in accordance with paragraph (B) of rule 3745-81-87 of the Administrative Code to assist the director in reviewing the system's recommendation.	6109.04	Fed REQUIRED	Exceeds 40 CFR 141.82(a) bc it does not allow medium systems to conduct CCT recommendation	X	X	
3745-81-82	A	REQUIRE	Small public water system recommendation regarding corrosion control treatment. Based upon the results of lead and copper tap monitoring and water quality parameter monitoring, small water systems exceeding the lead or copper action level SHALL recommend installation of and submit plans for one or more of the corrosion control treatments listed in paragraph (C)(1) of this rule which the system believes constitute optimal corrosion control for that system. The director may REQUIRE the small system to conduct additional water quality parameter monitoring in accordance with paragraph (B) of rule 3745-81-87 of the Administrative Code to assist the director in reviewing the system's recommendation.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(a)	X	X	
3745-81-82	B	REQUIRE	Studies of corrosion control treatment by small and medium systems. The director may REQUIRE any small system that exceeds the lead or copper action level to perform corrosion control studies under paragraph (C) of this rule to identify optimal corrosion control treatment for the system. Any medium system that exceeds the lead or copper action level SHALL perform corrosion control studies under paragraph (C) of this rule in order to identify optimal corrosion control treatment for the system.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(b)	X	X	
3745-81-82	B	SHALL	Studies of corrosion control treatment by small and medium systems. The director may REQUIRE any small system that exceeds the lead or copper action level to perform corrosion control studies under paragraph (C) of this rule to identify optimal corrosion control treatment for the system. Any medium system that exceeds the lead or copper action level SHALL perform corrosion control studies under paragraph (C) of this rule in order to identify optimal corrosion control treatment for the system.	6109.04	Fed optional	Exceeds 40 CFR 141.82(b) bc it REQUIRES a medium PWS to submit a CCT Study, rather than give director discretion	X		
3745-81-82	C(1)	SHALL	Any public water system performing corrosion control studies SHALL evaluate the effectiveness of each of the following treatments and, if appropriate, combinations of the following treatments to identify the optimal corrosion control treatment for that system: (a) Alkalinity and pH adjustment; (b) Calcium hardness adjustment; and (c) The addition of a phosphate-based or silicate-based corrosion inhibitor at a concentration sufficient to maintain an effective residual concentration in all test tap samples.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(c)(1)	X	X	
3745-81-82	C(2)	SHALL	The water system SHALL evaluate each of the corrosion control treatments using either pipe rig/loop tests, metal coupon tests, partial-system tests, or analyses based on documented analogous treatments with other systems of similar size, water chemistry, and distribution system configuration.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(c)(2)	X	X	

3745-81-82	C(3)	SHALL	The water system SHALL measure the following water quality parameters in any tests conducted under this paragraph before and after evaluating the corrosion control treatments listed above: (a) Lead; (b) Copper; (c) pH; (d) Alkalinity; (e) Calcium; (f) Conductivity; (g) Orthophosphate (when an inhibitor containing a phosphate compound is used); (h) Silicate (when an inhibitor containing a silicate compound is used); and (i) Water temperature.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(c)(3)	X	X	
3745-81-82	C(4)	SHALL	The water system SHALL identify all chemical or physical constraints that limit or prohibit the use of a particular corrosion control treatment and document such constraints with at least one of the following: (a) Data and documentation showing that a particular corrosion control treatment has adversely affected other water treatment processes when used by another water system with comparable water quality characteristics; and/or (b) Data and documentation demonstrating that the water system has previously attempted to evaluate a particular corrosion control treatment and has found that the treatment is ineffective or adversely affects other water quality treatment processes.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(c)(4)	X	X	
3745-81-82	C(4)	prohibit	The water system SHALL identify all chemical or physical constraints that limit or prohibit the use of a particular corrosion control treatment and document such constraints with at least one of the following: (a) Data and documentation showing that a particular corrosion control treatment has adversely affected other water treatment processes when used by another water system with comparable water quality characteristics; and/or (b) Data and documentation demonstrating that the water system has previously attempted to evaluate a particular corrosion control treatment and has found that the treatment is ineffective or adversely affects other water quality treatment processes.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(c)(4)	X	X	
3745-81-82	C(5)	SHALL	The water system SHALL evaluate the effect of the chemicals used for corrosion control treatment on other water quality treatment processes.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(c)(5)	X	X	
3745-81-82	C(6)	SHALL	On the basis of an analysis of the data generated during each evaluation, the water system SHALL recommend to the director in writing the treatment option that the corrosion control studies indicate constitutes optimal corrosion control treatment for that system, and submit approvable plans therefor in accordance with Chapter 3745-91 of the Administrative Code. The water system SHALL provide a rationale for its recommendation along with all supporting documentation specified in paragraphs (C)(1) to (C)(5) of this rule.	6109.04	Fed REQUIRED	Exceeds 40 CFR 141.82(c)(6) bc it REQUIRES the submittal of approvable plans in addition to the recommendation/study	X	X	
3745-81-82	C(6)	SHALL	On the basis of an analysis of the data generated during each evaluation, the water system SHALL recommend to the director in writing the treatment option that the corrosion control studies indicate constitutes optimal corrosion control treatment for that system, and submit approvable plans therefor in accordance with Chapter 3745-91 of the Administrative Code. The water system SHALL provide a rationale for its recommendation along with all supporting documentation specified in paragraphs (C)(1) to (C)(5) of this rule.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(c)(6)	X	X	
3745-81-82	D(1)	SHALL	Based upon consideration of available information, including, where applicable, studies performed under paragraph (C) of this rule and a system's recommended treatment alternative, the director SHALL review the corrosion control treatment plan submitted by the system. When reviewing the submitted optimal treatment plan the director SHALL consider the effects that additional corrosion control treatment will have on water quality parameters and on other water quality treatment processes	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(d)(1)	X	X	X
3745-81-82	D(2)	SHALL	The director SHALL notify the system of the decision on the optimal corrosion control treatment plan in writing and explain the basis for this determination. If the director requests additional information to aid the review, the water system SHALL provide the information.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(d)(2)	X	X	X
3745-81-82	D(2)	SHALL	The director SHALL notify the system of the decision on the optimal corrosion control treatment plan in writing and explain the basis for this determination. If the director requests additional information to aid the review, the water system SHALL provide the information.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(d)(2)	X	X	
3745-81-82	(E)	SHALL	Installation of optimal corrosion control. Each public water system SHALL properly install and operate throughout its distribution system the optimal corrosion control treatment approved by the director under paragraph (D) of this rule.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(e)	X	X	

3745-81-82	(F)	SHALL	Director review of treatment and specification of optimal water quality control parameters. The director SHALL evaluate the results of all lead and copper tap monitoring and water quality parameter monitoring submitted by the public water system and determine whether the system has properly installed and operated the optimal corrosion control treatment plan approved by the director in paragraph (D) of this rule. Upon reviewing the results of tap water and water quality parameter monitoring by the system, both before and after the system installs optimal corrosion control treatment, the director SHALL specify values for the applicable water quality control parameters listed in paragraphs (F)(1) to (F)(5) of this rule to reflect optimal corrosion control treatment for the system. The director may specify values for additional water quality control parameters determined by the director to reflect optimal corrosion control for the system. The director SHALL notify the system in writing of these determinations and explain the basis for the decisions.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(f)	X	X	X
3745-81-82	F(2)	SHALL	A minimum value for pH measured in all tap samples taken for water quality parameter determinations. Such value SHALL be equal to or greater than 7.0, unless the director determines that meeting a pH level of 7.0 is not technologically feasible or is not necessary for the system to optimize corrosion control;	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(f)(2)	X	X	X
3745-81-82	G	SHALL	Continued operation and monitoring. All public water systems optimizing corrosion control SHALL continue to operate and maintain optimal corrosion control treatment, including maintaining water quality parameters at or above minimum values or within ranges designated by the director under paragraph (F) of this rule, in accordance with this paragraph for all samples collected under paragraphs (D) to (F) of rule 3745-81-87 of the Administrative Code. Compliance with the REQUIREments of this paragraph SHALL be determined every six months, as specified under paragraph (D) of rule 3745-81-87 of the Administrative Code. A water system is out of compliance with the REQUIREments of this paragraph for a six-month period if it has excursions for any director-specified parameter on more than nine days during the period. An excursion occurs whenever the daily value for one or more of the water quality parameters measured at the sampling location is below the minimum value or outside the range designated by the director. Daily values are calculated as follows. The director has discretion to delete results of obvious sampling errors from this calculation.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(g)	X	X	
3745-81-82	G(1)	SHALL	On days when more than one measurement for the water quality parameter is collected at the sampling location, the daily value SHALL be the average of all results collected during the day regardless of whether they are collected through continuous monitoring, grab sampling, or a combination of both.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(g)(1)		X	
3745-81-82	G(2)	SHALL	On days when only one measurement for the water quality parameter is collected at the sampling location, the daily value SHALL be the result of that measurement.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(g)(2)		X	
3745-81-82	G(3)	SHALL	On days when no measurement is collected for the water quality parameter at the sampling location, the daily value SHALL be the daily value calculated on the most recent day on which the water quality parameter was measured at the site.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(g)(3)		X	
3745-81-82	(H)	SHALL	Modification of the director's treatment decisions. Upon the director's own initiative or in response to a request by a public water system, the director may modify the approval of the optimal corrosion control treatment plans under paragraph (D) of this rule or optimal water quality control parameters under paragraph (F) of this rule. A request for modification by a system SHALL be in writing, explain why the modification is appropriate, and provide supporting documentation. The director may modify the approval where the director concludes that such change is necessary to ensure that the system continues to optimize corrosion control treatment. A revised approval SHALL be made in writing, set forth the new treatment REQUIREments, explain the basis for the director's decision, and provide an implementation schedule for completing the treatment modifications.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(f)		X	
3745-81-82	(H)	SHALL	Modification of the director's treatment decisions. Upon the director's own initiative or in response to a request by a public water system, the director may modify the approval of the optimal corrosion control treatment plans under paragraph (D) of this rule or optimal water quality control parameters under paragraph (F) of this rule. A request for modification by a system SHALL be in writing, explain why the modification is appropriate, and provide supporting documentation. The director may modify the approval where the director concludes that such change is necessary to ensure that the system continues to optimize corrosion control treatment. A revised approval SHALL be made in writing, set forth the new treatment REQUIREments, explain the basis for the director's decision, and provide an implementation schedule for completing the treatment modifications.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.82(f)		X	X

3745-81-83	N/A	SHALL	Public water systems SHALL complete the applicable source water at the entry point to the distribution system monitoring and treatment REQUIREments (described in the referenced portions of paragraph (B) of this rule and in rules 3745-81-86 and 3745-81-88 of the Administrative Code) by the deadlines in paragraphs (A)(1) to (A)(6) of this rule.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83 Intro		X	
3745-81-83	(A)(1)	SHALL	Step one: a system exceeding the lead or copper action level SHALL complete source water at the entry point to the distribution system monitoring for lead and copper (in accordance with paragraph (B) of rule 3745-81-88 of the Administrative Code), make a treatment recommendation, and submit approvable plans, if needed, to the director (in accordance with paragraph (B)(1) of this rule) no later than one hundred eighty days after the end of the monitoring period during which the lead or copper action level was exceeded. If monitoring is REQUIRED annually, triennially, or less frequently, the end of the monitoring period is September thirtieth of the calendar year in which the sampling occurs. If the director has established an alternate period, then the end of the monitoring period will be the last day of that period.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(a)(1)		X	
3745-81-83	(A)(2)	SHALL	Step two: the director SHALL complete the review and approval of plans regarding source water treatment (in accordance with paragraph (B)(2) of this rule) within six months after submission of monitoring results under step one.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(a)(2)		X	X
3745-81-83	(A)(3)	REQUIRES	Step three: if the director REQUIRES installation of source water treatment, the system SHALL install the treatment (in accordance with paragraph (B)(3) of this rule) within twenty-four months after completion of step two.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(a)(3)		X	X
3745-81-83	(A)(3)	SHALL	Step three: if the director REQUIRES installation of source water treatment, the system SHALL install the treatment (in accordance with paragraph (B)(3) of this rule) within twenty-four months after completion of step two.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(a)(3)		X	
3745-81-83	(A)(4)	SHALL	Step four: the system SHALL complete follow-up tap water monitoring (in accordance with paragraph (D)(2) of rule 3745-81-86 of the Administrative Code) and source water at the entry point to the distribution system monitoring (in accordance with paragraph (C) of rule 3745-81-88 of the Administrative Code) within thirty-six months after completion of step two.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(a)(4)		X	
3745-81-83	(A)(5)	SHALL	Step five: the director SHALL review the system's installation and operation of source water treatment and specify maximum permissible source water at the entry point to the distribution system levels (in accordance with paragraph (B)(4) of this rule) within six months after completion of step four.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(a)(5)		X	X
3745-81-83	(A)(6)	SHALL	Step six: the system SHALL operate in compliance with the directorspecified maximum permissible lead and copper source water at the entry point to the distribution system levels (in accordance with paragraph (B)(4) of this rule) and continue monitoring (in accordance with paragraph (D) of rule 3745-81-88 of the Administrative Code).	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(a)(6)		X	
3745-81-83	(B)(1)	SHALL	System treatment recommendation. Any system which exceeds the lead or copper action level SHALL recommend in writing to the director the installation and operation of one of the source water treatments listed in paragraph (B)(2) of this rule. A system may recommend that no treatment be installed based upon a demonstration that source water treatment is not necessary to minimize lead and copper levels at user's taps.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(b)(1)		X	
3745-81-83	(B)(2)	SHALL	Director determination regarding source water treatment. The director SHALL complete an evaluation of the results of all source water at the entry point to the distribution system monitoring submitted by the water system to determine whether source water treatment is necessary to minimize lead or copper levels in water delivered to users' taps. If the director determines that treatment is needed, the system SHALL submit approvable plans for source water treatment selected from ion exchange, reverse osmosis, lime softening, or coagulation/filtration. If the director requests additional information to aid in the review, the water system SHALL provide the information by the date specified in the director's request. The director SHALL notify the system in writing of the determination and set forth the basis for the decision.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(b)(2)		X	X

3745-81-83	(B)(2)	SHALL	Director determination regarding source water treatment. The director SHALL complete an evaluation of the results of all source water at the entry point to the distribution system monitoring submitted by the water system to determine whether source water treatment is necessary to minimize lead or copper levels in water delivered to users' taps. If the director determines that treatment is needed, the system SHALL submit approvable plans for source water treatment selected from ion exchange, reverse osmosis, lime softening, or coagulation/filtration. If the director requests additional information to aid in the review, the water system SHALL provide the information by the date specified in the director's request. The director SHALL notify the system in writing of the determination and set forth the basis for the decision.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(b)(2)		X	
3745-81-83	(B)(3)	SHALL	Installation of source water treatment. Each system SHALL properly install and operate the source water treatment approved by the director under paragraph (B)(2) of this rule.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(b)(3)		X	
3745-81-83	(B)(4)	SHALL	Director's review of source water treatment and specification of maximum permissible levels of lead and copper at source water at the entry points to the distribution system. The director SHALL review the source water at the entry point to the distribution system monitoring completed by the water system both before and after the system installs source water treatment, and determine whether the system has properly installed and operated the source water treatment approved by the director. Based upon the review, the director SHALL specify the maximum permissible lead and copper concentrations for finished water entering the distribution system. Such levels SHALL reflect the contaminant removal capability of the treatment properly operated and maintained. The director SHALL notify the system in writing and explain the basis for the decision.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(b)(4)		X	X
3745-81-83	(B)(5)	SHALL	Continued operation and maintenance. Each water system SHALL maintain lead and copper levels below the maximum permissible concentrations specified by the director at each sampling point monitored in accordance with rule 3745-81-88 of the Administrative Code. The system is out of compliance with this paragraph if the level of lead or copper at any sampling point is greater than the maximum permissible concentration specified by the director.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(b)(5)		X	
3745-81-83	(B)(6)	SHALL	Modification of director treatment decisions. Upon the director's initiative or in response to a request by a water system, the director may modify the approval of the source water treatment plans under paragraph (B)(2) of this rule, or maximum permissible lead and copper concentrations for finished water entering the distribution system under paragraph (B)(4) of this rule. A request for modification by a system SHALL be in writing, explain why the modification is appropriate, and provide supporting documentation. The director may modify the approval where the director concludes that such change is necessary to ensure that the system continues to minimize lead and copper concentrations in source water at the entry point to the distribution system. A revised approval SHALL be made in writing, set forth the new treatment REQUIREments, explain the basis for the director's decision, and provide an implementation schedule for completing the treatment modifications.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(b)(6)		X	
3745-81-83	(B)(6)	SHALL	Modification of director treatment decisions. Upon the director's initiative or in response to a request by a water system, the director may modify the approval of the source water treatment plans under paragraph (B)(2) of this rule, or maximum permissible lead and copper concentrations for finished water entering the distribution system under paragraph (B)(4) of this rule. A request for modification by a system SHALL be in writing, explain why the modification is appropriate, and provide supporting documentation. The director may modify the approval where the director concludes that such change is necessary to ensure that the system continues to minimize lead and copper concentrations in source water at the entry point to the distribution system. A revised approval SHALL be made in writing, set forth the new treatment REQUIREments, explain the basis for the director's decision, and provide an implementation schedule for completing the treatment modifications.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.83(b)(6)		X	X
3745-81-84	Intro	SHALL	All water systems that replace lead service lines, replace water mains in areas that contain or are likely to contain lead service lines, or exceed the lead action level after the implementation of corrosion control or source water treatment SHALL comply with all applicable REQUIREments in this rule.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.84(a) by applying the rule to all PWSs with LSLs (not just PWSs with LSLs triggered into an LSL replacement program) and 40 CFR 141.84(c) by not allowing sampling to count as a replacement		X	

3745-81-84	(A)(1)	SHALL	The water system SHALL identify the initial number of lead service lines in its distribution system, including an identification of the portion owned by the system, based on a materials evaluation, including the evaluation REQUIRED under paragraph (A) of rule 3745-81-86 of the Administrative Code and relevant legal authorities regarding the portion owned by the system (e.g., contracts and local ordinances).	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.84(b)(1)		X	
3745-81-84	(A)(2)	SHALL	The water system SHALL replace annually at least seven per cent of the initial number of lead service lines in its distribution system. The initial number of lead service lines is the number of lead lines in place at the time the replacement program begins. The first year of lead service line replacement SHALL begin on the first day following the end of the monitoring period in which the action level was exceeded under paragraph (A) of this rule. If monitoring is REQUIRED annually, or triennially, the end of the monitoring period is September thirtieth of the calendar year in which the sampling occurs. If the director has established an alternate period, then the end of the monitoring period will be the last day of that period. The director SHALL REQUIRE a public water system to replace lead service lines on a shorter schedule than that REQUIRED by this rule, taking into account the number of lead service lines in the system, where such a shorter replacement schedule is feasible. The director SHALL make this determination in writing and notify the system of the finding within six months after the system is REQUIRED to commence lead service line replacement based on monitoring referenced in this paragraph.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.84(b)(1)		X	
3745-81-84	(A)(2)	SHALL	The water system SHALL replace annually at least seven per cent of the initial number of lead service lines in its distribution system. The initial number of lead service lines is the number of lead lines in place at the time the replacement program begins. The first year of lead service line replacement SHALL begin on the first day following the end of the monitoring period in which the action level was exceeded under paragraph (A) of this rule. If monitoring is REQUIRED annually, or triennially, the end of the monitoring period is September thirtieth of the calendar year in which the sampling occurs. If the director has established an alternate period, then the end of the monitoring period will be the last day of that period. The director SHALL REQUIRE a public water system to replace lead service lines on a shorter schedule than that REQUIRED by this rule, taking into account the number of lead service lines in the system, where such a shorter replacement schedule is feasible. The director SHALL make this determination in writing and notify the system of the finding within six months after the system is REQUIRED to commence lead service line replacement based on monitoring referenced in this paragraph.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.84(b)(1) or 40 CFR 141.84(e)		X	X
3745-81-84	(A)(3)	REQUIRE	If the water system is in violation of rule 3745-81-81 or rule 3745-81-83 of the Administrative Code for failure to install source water treatment or corrosion control treatment, the director may REQUIRE the system to commence lead service line replacement under this rule after the date by which the system was REQUIRED to conduct monitoring under paragraph (D)(2) of rule 3745-81-86 of the Administrative Code has passed.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.84(a)		X	
3745-81-84	(A)(4)	SHALL	Any public water system may cease replacing lead service lines whenever first-draw samples collected pursuant to paragraph (B)(2) of rule 3745-81-86 of the Administrative Code meet the lead action level during each of two consecutive monitoring periods and the system submits the results to the director. If first-draw tap samples monitored in any such water system thereafter exceed the lead action level, the system SHALL recommence replacing lead service lines, pursuant to paragraph (C) of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.84(f)		X	
3745-81-84	(A)(5)	SHALL	Any water system resuming a lead service replacement program after the cessation of its lead service line replacement program, as allowed by paragraph (A)(4) of this rule, SHALL update its inventory of lead service lines. The system will then divide the updated number of remaining lead service lines by the number of remaining years in the program to determine the number of lines that MUST be replaced per year (seven per cent lead service line replacement is based on a fifteen year replacement program: e.g., systems resuming lead service line replacement after previously conducting two years of replacement would divide the updated inventory by thirteen). For those systems that have completed a fifteen year lead service line replacement program, the director will determine a schedule for replacing or retesting lines that were previously tested out under the replacement program when the system re-exceeds the action level	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.84(b)(2)		X	

3745-81-84	(A)(5)	MUST	Any water system resuming a lead service replacement program after the cessation of its lead service line replacement program, as allowed by paragraph (A)(4) of this rule, SHALL update its inventory of lead service lines. The system will then divide the updated number of remaining lead service lines by the number of remaining years in the program to determine the number of lines that MUST be replaced per year (seven per cent lead service line replacement is based on a fifteen year replacement program: e.g., systems resuming lead service line replacement after previously conducting two years of replacement would divide the updated inventory by thirteen). For those systems that have completed a fifteen year lead service line replacement program, the director will determine a schedule for replacing or retesting lines that were previously tested out under the replacement program when the system re-exceeds the action level	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.84(b)(2)		X	
3745-81-84	(A)(6)	SHALL	The water system SHALL replace lead service lines in accordance with the REQUIREments of paragraph (C) of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.84(d); however paragraph C does exceed		X	
3745-81-84	(A)(7)	SHALL	The water system SHALL report to the director the information specified in paragraph (E) of rule 3745-81-90 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.84(g)		X	
3745-81-84	(B)	SHALL	Beginning October 1, 2018, systems conducting a water main replacement in an area with known lead service lines or in an area that is likely to contain lead service lines SHALL do so in accordance with this paragraph.	6109.121, 6109.04					
3745-81-84	(B)(1)	SHALL	The water system SHALL provide notice of the work to be performed by the system to consumers in the impacted area at least forty-five days prior to commencing the replacement. The director may allow the owner or operator of a water system to provide notice under the previous sentence less than forty-five days prior to commencing the replacement where such replacement is in conjunction with emergency repairs. The notice SHALL include language, acceptable to the director, that explains that work being performed may cause a temporary increase in lead levels in drinking water, provides instructions on filter use REQUIRED to be offered in paragraph (D) of this rule, and guidance on measures the consumer can take to reduce lead levels at their tap.	6109.121, 6109.04					
3745-81-84	(B)(2)	SHALL	The water system SHALL comply with the REQUIREments in paragraph (D) of this rule.	6109.121, 6109.04					
3745-81-84	(C)	SHALL	Beginning October 1, 2018, except in conjunction with action level exceedence, any system performing a lead service line replacement SHALL do so in accordance with this paragraph. A public water system SHALL replace that portion of the lead service line that it owns. In cases where the system does not own the entire lead service line, the system SHALL notify the owner of the line, or the owner's authorized agent, that the system will replace the portion of the service line that it owns and SHALL offer to replace the owner's portion of the line. A system is not REQUIRED to bear the cost of replacing the privately-owned portion of the line, nor is it REQUIRED to replace the privately-owned portion where the owner chooses not to pay the cost of replacing the privately-owned portion of the line, or where replacing the privately-owned portion would be precluded by state, local, or common law. A water system SHALL maintain a record of a full or partial lead service line replacement with an acknowledgment from the owner of the line of the work performed by the water system, for a minimum of twelve years. A water system that does not replace the entire length of the service line SHALL complete the following tasks and the REQUIREments in paragraph (D) of this rule:	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.84(d) by applying the rule to all LSL replacements		X	
3745-81-84	(C)(1)	SHALL	At least forty-five days prior to commencing with the partial replacement of a lead service line, the owner or operator of a water system SHALL provide notice to the residents of all buildings served by the line. The notice SHALL include language, acceptable to the director, that explains that work being performed may cause a temporary increase in lead levels in drinking water, provides instructions on filter use REQUIRED to be offered in paragraph (D) of this rule, and guidance on measures the consumer can take to reduce lead levels at their tap. The director may allow the owner or operator of a water system to provide notice under the previous sentence less than forty-five days prior to commencing partial lead service line replacement where such replacement is in conjunction with emergency repairs. In addition, the water system SHALL inform the residents serviced by the line that the system will, at the system's expense, collect a sample from each partially-replaced lead service line that is representative of the water in the service line for analysis of lead content, as prescribed under paragraph (B)(3) of rule 3745-81-86 of the Administrative Code, within seventy-two hours after the completion of the partial replacement of the service line. The system SHALL collect the sample and report the results of the analysis to the owner and the residents served by the line within two business days of receiving the laboratory results. Mailed notices post-marked within two business days of receiving the laboratory results SHALL be considered "on time."	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.84(d)(1) by reducing the time to consumer notice from 3 days to two days (State REQUIREment)		X	

3745-81-84	(C)(2)	SHALL	The water system SHALL provide the information REQUIRED by paragraph (C)(1) of this rule to the residents of individual dwellings by mail or by other methods approved by the director. In instances where multi-family dwellings are served by the line, the water system SHALL have the option to post information at a conspicuous location. In instances where a school, hospital or other non-residential building is served by the line, the water system SHALL notify the building administrator. In the case of public water systems that are schools, day cares, nursing homes or correctional institutions, the parents, legal guardians or power of attorney SHALL be directly notified.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.84(d)(2) by requiring the PWS to notify building admin and by requiring PWSs that are schools, daycares, nursing homes or corectional institutions to notify legal guardian or power of atnny		X	
3745-81-84	(D)	SHALL	Prior to beginning a partial lead service line replacement in accordance with paragraph (C) of this rule or a water main replacement in accordance with paragraph (B) of this rule, a water system SHALL offer and provide drinking water treatment unit filters up to a period of three months to consumers in the area impacted by the replacement. The filters SHALL meet NSF/ANSI standard 53 for "Drinking Water Treatment Units - Health Effects."	6109.121, 6109.04					
3745-81-84	(E)	SHALL	In lieu of completing lead service line replacement as REQUIRED under this rule, the director may use sole discretion to allow a public water system to use an alternative method to eliminate exposure to lead from lead service lines when, at a minimum, the following conditions are met: (1) The alternative method has been approved by U.S. EPA as an acceptable alternative for lead service line replacement pursuant to the Safe Drinking Water Act. (2) The director grants approval to the public water system to use the alternative method. When using the alternative method under this paragraph, a public water system SHALL comply with all the other substantive REQUIREments of this rule and with the reporting REQUIREments under paragraph (E) of rule 3745-81-90 of the Administrative Code.	6109.121, 6109.04					
3745-81-85	Intro	SHALL	All public water systems collecting tap water samples in accordance with rule 3745-81-86 of the Administrative Code SHALL comply with all applicable REQUIREments in this rule.	6109.121, 6109.04					
3745-81-85	(A) / (A)(1)	SHALL	A water system SHALL complete all applicable notice REQUIREments in this rule for the results of tap water monitoring collected in accordance with rule 3745-81-86 of the Administrative Code, as follows: (1) Provide notice of the lead results, from each individual tap water sample to the owner and persons served at the residence or other structure where the tap was sampled as soon as practical but no later than two business days after receipt of the laboratory results.	6109.121, 6109.04	Fed REQUIRED and State REQUIRED	Does not exceed 40 CFR 141.85(d)(1) Exceeds 40 CFR 141.85(d)(2) by requiring CN within 2 business days, rather than as soon as practical but no later than 30 days		X	
3745-81-85	(A)(2)	SHALL	The consumer notice SHALL include the results of lead tap water monitoring for the tap that was tested, an explanation of health effects of lead, list steps consumers can take to reduce exposure to lead in drinking water and contact information for the system. The notice SHALL also provide the maximum contaminant level goal, the action level for lead, the lead threshold level, and definitions from rule 3745-81-01 of the Administrative Code	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.85(d)(3) by requiring the inclusion of the state-defined lead threshold level and its definition in the CN		X	
3745-81-85	(A)(3)	SHALL	Consumer notice of tap water monitoring results SHALL be provided to persons served at the tap that was tested, by the following methods accepted by the director: (a) For results below the lead threshold level, notice may include hand-delivery, mail, electronic mail, and phone calls. (b) For results above the lead threshold level, notice may include hand-delivery, electronic mail, and documented phone calls followed by written notice that is mailed. The system SHALL provide the notice to customers at sample taps tested, including consumers who do not receive water bills. In the case of schools, day cares, nursing homes or correctional institutions, legal guardians or power of attorney SHALL be notified by a method accepted by the director.	6109.121, 6109.04	Fed optional-defines "methods accepted by the state"	Exceeds 40 CFR 141.85(d)(4) by requiring PWSs that are schools, daycares, nursing homes, or correctional instutions to provide CN to guardians or powers of attorney; also exceeds by requiring a documented phone call prior to mail delivery for results above the lead threshold level (15ppb)		X	
3745-81-85	(A)(4)	SHALL	If the results of lead tap water monitoring show that a sample from an individual tap is above the lead threshold level, the following, as applicable SHALL be completed: (a) Provide information on the availability of health screening and blood lead level testing to the owner and persons served at the residence or other structure where the tap was sampled no later than two business days after receipt of the laboratory results. (b) Provide notice of the laboratory results to the applicable board of health no later than two business days after receipt of the laboratory results. (c) The owner and operator of a nontransient noncommunity water system SHALL immediately remove from service all fixtures identified as contributing to elevated lead levels.	6109.121, 6109.04	State REQUIRED			X	

3745-81-85	(B)	SHALL	A water system that exceeds the lead action level on the basis of tap water samples collected in accordance with rule 3745-81-86 of the Administrative Code SHALL provide information on the availability of tap water monitoring to any customer who requests it. The system is not REQUIRED to pay for collecting or analyzing the sample, nor is the system REQUIRED to collect and analyze the sample. Water systems SHALL complete applicable consumer notice REQUIREments in paragraph (A) of this rule for all samples collected or analyzed by the water system	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.85(c) by requiring CN for this monitoring		X	
3745-81-85	(C)(1)	SHALL	(1) If the results of lead tap water monitoring show an exceedance of the lead action level, the water system SHALL provide lead public notification of lead action level exceedance to all of the system's water consumers no later than two business days after receipt of the laboratory results. A water system that exceeds the action level prior to the end of the monitoring period may collect additional samples that meet the criteria established in rule 3745-81-86 of the Administrative Code. (a) If the ninetieth percentile lead level falls below the lead action level prior to the deadlines established in paragraphs (C)(2) and (C)(3) of this rule, the water system does not have to complete the REQUIREments of paragraphs (C)(2) and (C)(3) of this rule. (b) If the water system subsequently exceeds the lead action level the REQUIREments in paragraphs (C)(2) and (C)(3) of this rule will be REQUIRED. (c) A second lead public notification SHALL be issued at the end of the monitoring period with updated results.	6109.121, 6109.04	Fed REQUIRED and State REQUIRED	Exceeds 40 CFR 141.85(b)(2)(v) by requiring the press release for NTNC (in addition to COMM) and by requiring it within 2 business days of results indicating an ALE		X	
3745-81-85	(C)(2)	SHALL	Community water systems SHALL provide information on the availability of tap water testing for lead to all consumers served by the system no later than five business days after receipt of the laboratory results.	6109.121, 6109.04	Fed REQUIRED and State REQUIRED	Exceeds 40 CFR 141.85(a)(2)(i) by requiring this within 5 business days		X	
3745-81-85	(D)	SHALL	Content of public notification. Lead public notification SHALL include the ninetieth percentile lead level, number of samples used to compute the ninetieth percentile lead level, an explanation of the health effects of lead, a list of the steps consumers can take to reduce exposure to lead in drinking water, and contact information for the water system.	6109.121, 6109.04	Fed/State REQUIRED?	Does not exceed 40 CFR 141.85(b)(2)(v)		X	
3745-81-85	(E)(1)	SHALL	Lead public notification SHALL be provided by a method accepted by the director, including broadcast media (e.g., radio and television), social media, delivering the notification by hand, delivering the notification by electronic mail or posting the notice in conspicuous locations throughout the area served by the water system.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(2)(v)		X	
3745-81-85	(E)(2)	SHALL	A community water system SHALL repeat the lead public notification twice every twelve months on a schedule agreed upon with the director.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(3)(iv)		X	
3745-81-85	(F)	SHALL	Content of public education. A water system that exceeds the lead action level based on tap water samples collected in accordance with rule 3745-81-86 of the Administrative Code, SHALL deliver public education material in accordance with paragraph (G) of this rule using the following content:	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(a)(1)		X	
3745-81-85	(F)(1)	SHALL	The content of written public education materials SHALL be in print (e.g., brochures and pamphlets) and include the exact language in paragraphs (F)(1)(a), (F)(1)(b) and (F)(1)(f) of this rule, except for the text in brackets in these paragraphs for which the water system SHALL include system-specific information. Any additional information presented by a system SHALL be consistent with the information below and be in plain language that can be understood by the general public. All written public education material content SHALL be acceptable to the director prior to delivery.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(a)(1)		X	

3745-81-85	(F)(2)	SHALL	Community water system. In addition to including the elements specified in paragraph (F)(1) of this rule, community water systems SHALL discuss lead in plumbing components and the difference between low lead and lead free	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(a)(2)(ii)		X	
3745-81-85	(G)(1)	SHALL	In the case of public water systems that are schools, day cares, nursing homes or correctional institutions, legal guardians or power of attorney SHALL be directly notified.	6109.121, 6109.04					
3745-81-85	(G)(2)	MUST	For public water systems serving a large population of non-English speaking consumers, as determined by the director, the public education material MUST contain information in the appropriate language regarding the importance of the notice or contain a telephone number or address where persons served may contact the water system to obtain a translated copy of the public education materials or to request assistance in the appropriate language.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(1)		X	
3745-81-85	(G)(3)	SHALL	Community water systems. A community water system that exceeds the lead action level on the basis of tap water samples collected in accordance with rule 3745-81-86 of the Administrative Code, and that is not already conducting public education tasks under this rule, SHALL conduct the following public education tasks within thirty business days after receipt of the laboratory results:	6109.121, 6109.04	Fed REQUIRED and State REQUIRED	Exceeds 40 CFR 141.85(b)(2) by requiring PE to be delivered 30 business days after receipt of results indicating an ALE (rather than 60 days after the end of the MP)		X	
3745-81-85	(G)(3)(b)(i)	SHALL	Delivering education materials that meet the content REQUIREments of paragraph (F) of this rule to local public health agencies even if they are not located within the service area of the public water system, along with an informational notice that encourages distribution to all potentially affected customers of the organization or users of the community water system. The water system SHALL contact the local public health agencies directly by phone or in person. The local public health agencies may provide a specific list of additional community based organizations serving target populations, which may include organizations outside the service area of the water system. If such lists are provided, systems SHALL deliver education materials that meet the content REQUIREments of paragraph (F) of this rule to all organizations on the provided lists.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(2)(ii)(A)		X	
3745-81-85	(G)(3)(c)	SHALL	No less often than quarterly, provide information on or in each water bill as long as the system exceeds the action level of lead. The message on the water bill SHALL include the following statement exactly as written except for the text in brackets for which the water system SHALL include system-specific information: "[INSERT NAME OF WATER SYSTEM] found high levels of lead in drinking water in some homes. Lead can cause serious health problems. For more information please call [INSERT YOUR NUMBER] (or visit [INSERT YOUR WEB SITE HERE])." The message or delivery mechanism can be modified in consultation with the director; specifically, the director may allow a separate mailing of public education materials to customers if the water system cannot place the information on water bills.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(2)(iii)		X	
3745-81-85	(G)(3)(e)	SHALL	In addition to paragraphs (G)(3)(a) to (G)(3)(d) of this rule, systems SHALL implement at least three of the following activities: (i) Public service announcements. (ii) Paid advertisements. (iii) Public area information displays. (iv) E-mails to customers. (v) Public meetings. (vi) Household deliveries. (vii) Targeted individual customer contact. (viii) Direct material distribution to all multi-family homes and institutions. (ix) Other methods approved by the director. The educational content and selection of these activities SHALL be determined in consultation with the director.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(2)(vi)		X	
3745-81-85	(G)(4)	SHALL	Frequency of delivery for community water systems. As long as a community water system exceeds the action level, the activities SHALL be repeated pursuant to paragraph (G)(3) of this rule as follows:	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(3)		X	
3745-81-85	(G)(4)(a)	SHALL	A community water system SHALL repeat the tasks contained in paragraphs (G)(3)(a), (G)(3)(b), and (G)(3)(e) of this rule every twelve months.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(3)(i)		X	
3745-81-85	(G)(4)(b)	SHALL	A community water system SHALL repeat tasks contained in paragraph (G)(3)(c) of this rule with each billing cycle.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(3)(ii)		X	
3745-81-85	(G)(4)(c)	SHALL	A community water system serving a population greater than one hundred thousand SHALL post and retain material on a publically accessible web site pursuant to paragraph (G)(3)(d) of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(3)(iii)		X	
3745-81-85	(G)(5)	SHALL	Nontransient noncommunity water systems. Frequency of delivery for nontransient noncommunity water systems. Within thirty days after receipt of the laboratory results [unless it already is repeating public education tasks pursuant to paragraph (G)(6) of this rule], a nontransient noncommunity water system SHALL deliver the public education materials specified by paragraph (F) of this rule as follows:	6109.121, 6109.04	Fed REQUIRED and State REQUIRED	Exceeds 40 CFR 141.85(b)(4) by requiring PE to be delivered 30 business days after receipt of results indicating an ALE (rather than 60 days after the end of the MP)		X	

3745-81-85	(G)(6)	SHALL	A nontransient noncommunity water system SHALL repeat the tasks contained in paragraph (G)(5) of this rule at least once during each calendar year in which the system exceeds the lead action level.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(5)		X	
3745-81-85	(G)(7)	SHALL	A water system may discontinue delivery of public education materials if the system has not exceeded the lead action level during the most recent six-month monitoring period conducted pursuant to rule 3745-81-86 of the Administrative Code. Such a system SHALL recommence public education in accordance with this rule if the system subsequently exceeds the lead action level during any monitoring period.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(6)		X	
3745-81-85	(G)(9)	SHALL	(9) A community water system serving thirty-three hundred or fewer people may limit certain aspects of the public education programs as follows: (a) The water system SHALL implement at least one of the activities listed in paragraph (G)(3)(e) of this rule. (b) The water system may limit the distribution of the public education materials REQUIRED in paragraph (G)(3)(b) of this rule to facilities and organizations served by the system that are most likely to be visited regularly by pregnant women and children, unless the system is notified by the director in writing that the system SHALL make a broader distribution.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.85(b)(8)		X	
3745-81-86	(A)(1)	SHALL	Each public water system SHALL complete a materials evaluation of the distribution system in order to identify a pool of targeted sampling sites that meets the REQUIREments of this rule and is sufficiently large to ensure that the public water system can collect the number of lead and copper tap samples REQUIRED in paragraph (C) of this rule. All sites from which first-draw samples are collected SHALL be selected from this pool of targeted sampling sites. Sampling sites MAY NOT include taps that have point-of-use or point-of-entry treatment devices designed to remove inorganic contaminants.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86 (a)(1)		X	
3745-81-86	(A)(1)	MAY NOT	Each public water system SHALL complete a materials evaluation of the distribution system in order to identify a pool of targeted sampling sites that meets the REQUIREments of this rule and is sufficiently large to ensure that the public water system can collect the number of lead and copper tap samples REQUIRED in paragraph (C) of this rule. All sites from which first-draw samples are collected SHALL be selected from this pool of targeted sampling sites. Sampling sites MAY NOT include taps that have point-of-use or point-of-entry treatment devices designed to remove inorganic contaminants.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86 (a)(1)		X	
3745-81-86	(A)(2)	SHALL	A public water system SHALL use any information on lead, copper, and galvanized steel that the system has collected in corrosivity monitoring when conducting a materials evaluation. When such information is insufficient to locate the requisite number of lead and copper sampling sites that meet the targeting criteria in paragraph (A) of this rule, the public water system SHALL review the following sources of information in order to identify a sufficient number of sampling sites: (a) All plumbing codes, permits, and records in the files of the building department which indicate the plumbing materials that are installed within publicly and privately owned structures connected to the distribution system. (b) Inspections and records of the distribution system that indicate the material composition of the service connections that connect a structure to the distribution system. (c) All existing water quality information, which includes the results of all prior analyses of the system or individual structures connected to the system, indicating locations that may be particularly susceptible to high lead or copper concentrations. In addition, the system SHALL seek to collect such information where possible in the course of normal operations (e.g., checking service line materials while reading water meters or performing maintenance activities).	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86 (a)(2)		X	
3745-81-86	(A)(3)	SHALL	The sampling sites selected for a community public water system's sampling pool ("tier one sampling sites") SHALL consist of single family structures that meet one of the following: (a) Contain copper pipes with lead solder installed after 1982 and before 1989 or contain lead pipes; or. (b) Are served by a lead service line. When multiple-family residences comprise at least twenty per cent of the structures served by a public water system, the system may include these types of structures in the sampling pool.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.86 (a)(3) by requiring SFSs with copper pipes/lead solder after 1982 and before 1989 (fed rule does not include upper limit)		X	
3745-81-86	(A)(4)	SHALL	Any community public water system with insufficient tier one sampling sites SHALL complete the sampling pool with "tier two sampling sites", consisting of buildings, including multiple-family residences, that meet one of the following: (a) Contain copper pipes with lead solder installed after 1982 and before 1989 or contain lead pipes; or. (b) Are served by a lead service line	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.86 (a)(4) by requiring MFSs with copper pipes/lead solder after 1982 and before 1989 (fed rule does not include upper limit)		X	

3745-81-86	(A)(5)	SHALL	Any community public water system with insufficient tier one and tier two sampling sites SHALL complete the sampling pool with "tier three sampling sites", consisting of single family structures that contain copper pipes with lead solder installed before 1983. A community public water system with insufficient tier 1, tier 2, and tier 3 sampling sites SHALL complete the sampling pool with representative sites throughout the distribution system. For the purpose of this paragraph, a representative site is a site in which the plumbing materials used at that site would be commonly found at other sites served by the public water system.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86 (a)(5)		X	
3745-81-86	(A)(6)	SHALL	The sampling sites selected for a nontransient noncommunity public water system ("tier one sampling sites") SHALL consist of buildings that meet one of the following: (a) Contain copper pipes with lead solder installed after 1982 and before 1989 or contain lead pipes. (b) Are served by a lead service line.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.86 (a)(6) by requiring copper pipes/lead solder after 1982 and before 1989 (fed rule does not include upper limit)		X	
3745-81-86	(A)(7)	SHALL	A nontransient noncommunity public water system with insufficient tier one sites that meet the targeting criteria in paragraph (A)(6) of this rule SHALL complete the sampling pool with sampling sites that contain copper pipes with lead solder installed before 1983. If additional sites are needed to complete the sampling pool, the nontransient noncommunity water system SHALL use representative sites throughout the distribution system. For the purpose of this paragraph, a representative site is a site in which the plumbing materials used at that site would be commonly found at other sites served by the public water system.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86 (a)(7)		X	
3745-81-86	(A)(8)	SHALL	Any public water system whose distribution system contains lead service lines SHALL draw fifty per cent of the samples collected during each monitoring period from sites that contain lead pipes, or copper pipes with lead solder, and fifty per cent of those samples from sites served by a lead service line. A public water system that cannot identify a sufficient number of sampling sites served by a lead service line SHALL collect first-draw samples from all of the sites identified as being served by such lines.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86 (a)(8)		X	
3745-81-86	(A)(9)	SHALL	Mapping REQUIREments. The owner or operator of a community or nontransient noncommunity water system SHALL do all of the following, as applicable:	6109.121, 6109.04	State REQUIRED			X	
3745-81-86	(A)(9)(a)	SHALL	Community water systems. The owner or operator SHALL identify and map areas of the system that are known or likely to contain lead service lines, and identify characteristics of buildings served by the system that may have solder, fixtures or pipes that contain lead. Characteristics of buildings may be described in a narrative referenced in paragraph (A)(9)(d) of this rule.	6109.121, 6109.04	State REQUIRED			X	
3745-81-86	(A)(9)(b)	SHALL	Single building community water systems and nontransient noncommunity water systems. The owner or operator SHALL identify and map areas of the system with solder, fixtures or pipes containing lead in buildings served by the system. Characteristics of the system may be described in a narrative referenced in paragraph (A)(9)(d) of this rule.	6109.121, 6109.04	State REQUIRED			X	
3745-81-86	(A)(9)(d)	SHALL	The applicable map, and a list of sampling site locations identified in paragraphs (A)(1) to (A)(8) of this rule including the contact information for the owner and occupant for each sampling site SHALL be submitted to the director. Water systems may submit a narrative providing additional detail (e.g., description of the building and the plumbing materials) with the map and list of sampling site locations. The documentation submitted SHALL be acceptable and complete.	6109.121, 6109.04	State REQUIRED			X	
3745-81-86	(A)(9)(e)	SHALL	The owner or operator of an existing community or nontransient noncommunity water system SHALL complete the initial submission of the information specified in paragraphs (A)(9)(a) or (A)(9)(b) of this rule in accordance with section 6109.121 of the Revised Code. The owner or operator of a new community or nontransient noncommunity water system SHALL complete the initial submission of the information specified in paragraph (A)(9)(a) or (A)(9)(b) of this rule when applying for plan approval in accordance with Chapter 3745-91 of the Administrative Code.	6109.121, 6109.04	State REQUIRED			X	
3745-81-86	(A)(9)(f)	SHALL	The water system owner or operator SHALL update and resubmit information REQUIRED in paragraphs (A)(9)(a) to (A)(9)(d) of this rule once every five years, beginning five years after March 9, 2017.	6109.121, 6109.04	State REQUIRED			X	
3745-81-86	(B)(1)	SHALL	All tap samples for lead and copper collected in accordance with rules 3745-81-80 to 3745-81-89 of the Administrative Code, with the exception of lead service line samples collected under paragraph (C)(1) of rule 3745-81-84 of the Administrative Code and samples collected under paragraph (B)(3) of this rule, SHALL be first-draw samples.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(b)(1)		X	

3745-81-86	(B)(2)	SHALL	Each first-draw tap sample for lead and copper SHALL be one liter in volume and have stood motionless in the plumbing system of its sampling site for at least six hours. First-draw samples from residential housing SHALL be collected from the cold-water kitchen tap or bathroom sink tap. First-draw samples from a non-residential building SHALL be one liter in volume and SHALL be collected at an interior tap from which water is typically drawn for consumption. Non-first-draw samples collected in lieu of first-draw samples pursuant to paragraph (B)(5) of this rule SHALL be one liter in volume and SHALL be collected at an interior tap from which water is typically drawn for consumption. First-draw samples may be collected by the public water system or the system may allow residents to collect first-draw samples after instructing the residents of the sampling procedures specified in this paragraph. To avoid problems of residents handling nitric acid, acidification of first-draw samples may be done up to fourteen days after the sample is collected. After acidification to resolubilize the metals, the sample MUST stand in the original container for the time specified in the approved EPA method before the sample can be analyzed. If a public water system allows residents to perform sampling, the system MAY NOT challenge, based on alleged errors in sample collection, the accuracy of sampling results.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(b)(2)		X	
3745-81-86	(B)(2)	MUST	Each first-draw tap sample for lead and copper SHALL be one liter in volume and have stood motionless in the plumbing system of its sampling site for at least six hours. First-draw samples from residential housing SHALL be collected from the cold-water kitchen tap or bathroom sink tap. First-draw samples from a non-residential building SHALL be one liter in volume and SHALL be collected at an interior tap from which water is typically drawn for consumption. Non-first-draw samples collected in lieu of first-draw samples pursuant to paragraph (B)(5) of this rule SHALL be one liter in volume and SHALL be collected at an interior tap from which water is typically drawn for consumption. First-draw samples may be collected by the public water system or the system may allow residents to collect first-draw samples after instructing the residents of the sampling procedures specified in this paragraph. To avoid problems of residents handling nitric acid, acidification of first-draw samples may be done up to fourteen days after the sample is collected. After acidification to resolubilize the metals, the sample MUST stand in the original container for the time specified in the approved EPA method before the sample can be analyzed. If a public water system allows residents to perform sampling, the system MAY NOT challenge, based on alleged errors in sample collection, the accuracy of sampling results.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(b)(2)		X	
3745-81-86	(B)(2)	MAY NOT	Each first-draw tap sample for lead and copper SHALL be one liter in volume and have stood motionless in the plumbing system of its sampling site for at least six hours. First-draw samples from residential housing SHALL be collected from the cold-water kitchen tap or bathroom sink tap. First-draw samples from a non-residential building SHALL be one liter in volume and SHALL be collected at an interior tap from which water is typically drawn for consumption. Non-first-draw samples collected in lieu of first-draw samples pursuant to paragraph (B)(5) of this rule SHALL be one liter in volume and SHALL be collected at an interior tap from which water is typically drawn for consumption. First-draw samples may be collected by the public water system or the system may allow residents to collect first-draw samples after instructing the residents of the sampling procedures specified in this paragraph. To avoid problems of residents handling nitric acid, acidification of first-draw samples may be done up to fourteen days after the sample is collected. After acidification to resolubilize the metals, the sample MUST stand in the original container for the time specified in the approved EPA method before the sample can be analyzed. If a public water system allows residents to perform sampling, the system MAY NOT challenge, based on alleged errors in sample collection, the accuracy of sampling results.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(b)(2)		X	
3745-81-86	(B)(3)	SHALL	Each service line sample SHALL be one liter in volume and have stood motionless in the lead service line for at least six hours. Each lead service line sample SHALL be collected in one of the following three ways:	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(b)(3)		X	
3745-81-86	(B)(3)(a)	SHALL	At the tap after flushing the volume of water between the tap and the lead service line. The volume of water SHALL be calculated based on the interior diameter and length of the pipe between the tap and the lead service line.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(b)(3)(i)		X	
3745-81-86	(B)(4)	SHALL	A public water system SHALL collect each first-draw tap sample from the same sampling site from which a previous sample was collected. If, for any reason, the water system cannot gain entry to a sampling site in order to collect a follow-up tap sample, the system may collect the follow-up tap sample from another sampling site in its sampling pool as long as the new site meets the same targeting criteria and is within reasonable proximity of the original site.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(b)(4)		X	

3745-81-86	(B)(5)	SHALL	A nontransient noncommunity water system, or a community water system that meets the criteria of paragraph (G)(8) of rule 3745-81-85 of the Administrative Code, that does not have enough taps that can supply first-draw samples, as defined in rule 3745-81-01 of the Administrative Code may apply to the director in writing to substitute non-first-draw samples. Such public water systems SHALL collect as many first-draw samples from appropriate taps as possible and identify sampling times and locations that would likely result in the longest standing time for the remaining sites.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(b)(5)		X	
3745-81-86	(C)	SHALL	Number of samples. Public water systems SHALL collect at least one sample during each monitoring period specified in paragraph (D) of this rule from the number of sites listed in the second column ("standard monitoring") of the table in this paragraph. A system conducting reduced monitoring under paragraph (D)(4) of this rule SHALL collect at least one sample from the number of sites specified in the third column ("reduced monitoring") of the table in this paragraph during each monitoring period specified in paragraph (D)(4) of this rule. Such reduced monitoring sites SHALL be representative of the sites REQUIRED for standard monitoring. A public water system that has fewer than five drinking water taps that can be used for human consumption meeting the sample site criteria of paragraph (A) of this rule to reach the REQUIRED number of sample sites listed in paragraph (C) of this rule, SHALL collect at least one sample from each tap and then SHALL collect additional samples from those taps on different days during the monitoring period to meet the REQUIRED number of sites. Alternately, the director may allow these public water systems to collect a number of samples less than the number of sites specified in paragraph (C) of this rule, provided that one hundred per cent of all taps that can be used for human consumption are sampled. The director SHALL approve this reduction of the minimum number of samples in writing based on a request from the system or onsite verification by the director. The director may specify sampling locations when a public water system is conducting reduced monitoring. The table is as follows:	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(c)		X	X
3745-81-86	(C)	SHALL	Number of samples. Public water systems SHALL collect at least one sample during each monitoring period specified in paragraph (D) of this rule from the number of sites listed in the second column ("standard monitoring") of the table in this paragraph. A system conducting reduced monitoring under paragraph (D)(4) of this rule SHALL collect at least one sample from the number of sites specified in the third column ("reduced monitoring") of the table in this paragraph during each monitoring period specified in paragraph (D)(4) of this rule. Such reduced monitoring sites SHALL be representative of the sites REQUIRED for standard monitoring. A public water system that has fewer than five drinking water taps that can be used for human consumption meeting the sample site criteria of paragraph (A) of this rule to reach the REQUIRED number of sample sites listed in paragraph (C) of this rule, SHALL collect at least one sample from each tap and then SHALL collect additional samples from those taps on different days during the monitoring period to meet the REQUIRED number of sites. Alternately, the director may allow these public water systems to collect a number of samples less than the number of sites specified in paragraph (C) of this rule, provided that one hundred per cent of all taps that can be used for human consumption are sampled. The director SHALL approve this reduction of the minimum number of samples in writing based on a request from the system or onsite verification by the director. The director may specify sampling locations when a public water system is conducting reduced monitoring. The table is as follows:	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(c)		X	
3745-81-86	(D)(1)	SHALL	Initial tap sampling. The first six-month monitoring period for new community or nontransient noncommunity water systems SHALL begin on either January first or July first, whichever comes first after activation as a water system.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(1)		X	
3745-81-86	(D)(1)(a)	SHALL	All large systems SHALL monitor during two consecutive six-month periods.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(1)(i)		X	
3745-81-86	(D)(1)(b)	SHALL	All small and medium systems SHALL monitor during each six-month monitoring period until one of the following occurs:	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(1)(ii)		X	
3745-81-86	(D)(1)(b)(i)	SHALL	The public water system exceeds the lead or copper action level and is therefore REQUIRED to implement the corrosion control treatment REQUIREments under rule 3745-81-81 of the Administrative Code, in which case the system SHALL continue monitoring in accordance with paragraph (D)(2) of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(1)(ii)(A)		X	
3745-81-86	(D)(2)(a)	SHALL	Any large system which installs optimal corrosion control treatment pursuant to paragraph (D)(4) of rule 3745-81-81 of the Administrative Code SHALL monitor during two consecutive six-month monitoring periods in accordance with paragraph (D)(5) of rule 3745-81-81 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(2)(i)		X	

3745-81-86	(D)(2)(b)	SHALL	Any small or medium system which installs optimal corrosion control treatment pursuant to paragraph (E)(5) of rule 3745-81-81 of the Administrative Code SHALL monitor during two consecutive six-month monitoring periods in accordance with paragraph (E)(6) of rule 3745-81-81 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(2)(ii)		X	
3745-81-86	(D)(2)(c)	SHALL	Any public water system which installs source water treatment pursuant to paragraph (A)(3) of rule 3745-81-83 of the Administrative Code SHALL monitor during two consecutive six-month monitoring periods by the date specified in paragraph (A)(4) of rule 3745-81-83 of the Administrative Code	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(2)(iii)		X	
3745-81-86	(D)(3)	SHALL	Monitoring after the director specifies water quality parameter values for optimal corrosion control. After the director specifies the values for water quality control parameters under paragraph (F) of rule 3745-81-82 of the Administrative Code, the public water system SHALL monitor during each subsequent six-month monitoring period, with the first monitoring period to begin on the date the director specifies the optimal values under paragraph (F) of rule 3745-81-82 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(3)		X	
3745-81-86	(D)(4)(a)	SHALL	A small or medium water system that does not exceed either the lead or copper action level during two consecutive six-month monitoring periods may reduce the number of samples according to paragraph (C) of this rule, and reduce the frequency of sampling to one monitoring period per year. A small or medium public water system collecting fewer than five samples as specified in paragraph (C) of this rule, that does not exceed either the lead or copper action level during two consecutive six-month monitoring periods may reduce the frequency of sampling to one monitoring period per year. In no case can this public water system reduce the number of samples REQUIRED below the minimum of one sample per available tap. This sampling SHALL begin during the calendar year immediately following the end of the second consecutive six-month monitoring period.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(4)(i)		X	
3745-81-86	(D)(4)(b)	SHALL	Reduced annual monitoring. Any public water system that meets the lead action level and maintains the range of values for the water quality control parameters reflecting optimal corrosion control treatment approved by the director under paragraph (F) of rule 3745-81-82 of the Administrative Code during each of two consecutive six-month monitoring periods may reduce the frequency of monitoring to once per year and to reduce the number of lead and copper samples in accordance with paragraph (C) of this rule if it receives written approval from the director. This sampling SHALL begin during the calendar year immediately following the end of the second consecutive six-month monitoring period. The director SHALL review monitoring, treatment, and other relevant information submitted by the public water system in accordance with rule 3745-81-90 of the Administrative Code, and SHALL notify the system in writing, when the director determines the system is eligible to commence reduced monitoring pursuant to this paragraph. The director SHALL review, and where appropriate, revise such a determination when the system submits new monitoring or treatment data, or when other data relevant to the number and frequency of tap sampling become available.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(4)(ii)		X	
3745-81-86	(D)(4)(b)	SHALL	Reduced annual monitoring. Any public water system that meets the lead action level and maintains the range of values for the water quality control parameters reflecting optimal corrosion control treatment approved by the director under paragraph (F) of rule 3745-81-82 of the Administrative Code during each of two consecutive six-month monitoring periods may reduce the frequency of monitoring to once per year and to reduce the number of lead and copper samples in accordance with paragraph (C) of this rule if it receives written approval from the director. This sampling SHALL begin during the calendar year immediately following the end of the second consecutive six-month monitoring period. The director SHALL review monitoring, treatment, and other relevant information submitted by the public water system in accordance with rule 3745-81-90 of the Administrative Code, and SHALL notify the system in writing, when the director determines the system is eligible to commence reduced monitoring pursuant to this paragraph. The director SHALL review, and where appropriate, revise such a determination when the system submits new monitoring or treatment data, or when other data relevant to the number and frequency of tap sampling become available.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(4)(ii)		X	X

3745-81-86	(D)(4)(c)	SHALL	Reduced triennial monitoring. As of the effective date of this rule, no water systems are eligible to monitor for lead and copper once every three years without applying for and obtaining written approval from the director. Any public water system that exceeds the lead action level or fails to maintain the range of values for the water quality control parameters reflecting optimal corrosion control treatment approved by the director under paragraph (F) of rule 3745-81-82 of the Administrative Code during five consecutive monitoring periods will not be eligible to reduce the frequency of monitoring from annually to once every three years. To apply for approval, an eligible water system SHALL provide the director with documentation that at least one of the criteria listed in paragraphs (D)(4)(c)(i) to (D)(4)(c)(iii) of this rule were met. Samples collected once every three years SHALL be collected no later than every third calendar year. In addition to reviewing information submitted pursuant to paragraphs (D)(4)(c)(i) to (D)(4)(c)(iii) of this rule, the director SHALL review monitoring, treatment and other relevant information submitted by the public water system in accordance with rule 3745-81-90 of the Administrative Code, as part of the monitoring frequency determination. Any water systems that did not receive written approval from the director and were conducting triennial monitoring prior the effective date of this rule, SHALL conduct annual lead and copper monitoring. When the water system submits new monitoring or treatment data, or when other data relevant to the number and frequency of tap sampling becomes available, the director SHALL review, and where appropriate, revise the determination.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.86(d)(4)(iii) by adding additional criteria to be eligible for reduced triennial monitoring		X	
3745-81-86	(D)(4)(c)(i)	SHALL	The water system SHALL demonstrate that the tap water lead level computed under paragraph (C)(3) of rule 3745-81-80 of the Administrative Code is less than or equal to 0.005 milligrams per liter and the tap water copper level computed under paragraph (C)(3) of rule 3745-81-80 of the Administrative Code is less than or equal to 0.65 milligrams per liter for five consecutive monitoring periods.	6109.121, 6109.04		Exceeds 40 CFR 141.86(d)(4)(iii) by adding additional criteria to be eligible for reduced triennial monitoring			
3745-81-86	(D)(4)(c)(ii)	SHALL	The water system SHALL demonstrate that the system has maintained the range of values for water quality control parameters reflecting optimal corrosion control treatment approved by the director under paragraph (F) of rule 3745-81-82 of the Administrative Code, if applicable, during five consecutive monitoring periods.	6109.121, 6109.04		Exceeds 40 CFR 141.86(d)(4)(iii) by adding additional criteria to be eligible for reduced triennial monitoring			
3745-81-86	(D)(4)(c)(iii)	SHALL	The water system SHALL demonstrate that the system does not own service lines, fixtures, pipe or solder that contain lead.	6109.121, 6109.04		Exceeds 40 CFR 141.86(d)(4)(iii) by adding additional criteria to be eligible for reduced triennial monitoring			
3745-81-86	(D)(4)(d)	SHALL	A public water system that reduces the number of sampling sites and the frequency of monitoring SHALL collect these samples from representative sites included in the pool of targeted sampling sites identified in paragraph (A) of this rule. Public water systems monitoring annually or less frequently SHALL conduct the lead and copper tap water monitoring during the months of June through September unless the director has approved a different sampling period in accordance with paragraph (D)(4)(d)(i) of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(4)(iv)		X	
3745-81-86	(D)(4)(d)(i)	SHALL	The director may approve a different period for conducting the lead and copper tap sampling for public water systems collecting a reduced number of samples. Such a period SHALL be no longer than four consecutive months and SHALL represent a time of normal operation where the highest levels of lead are most likely to occur. For a nontransient noncommunity water system that does not operate during the months of June through September, and for which the period of normal operation where the highest levels of lead are most likely to occur is not known, the director SHALL designate a period that represents a time of normal operation for the system. This sampling SHALL begin during the period approved by the director in the calendar year immediately following the end of the second consecutive six-month monitoring period for systems initiating annual monitoring and during the three-year period following the end of the third consecutive year of annual monitoring for systems initiating triennial monitoring	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(4)(iv)(A)		X	X
3745-81-86	(D)(4)(d)(ii)	SHALL	Public water systems monitoring annually, that have been collecting samples during the months of June through September and that receive the director's approval to alter their sample collection period under paragraph (D)(4)(d)(i) of this rule, SHALL collect their next round of samples during a time period that ends no later than twenty-one months after the previous round of sampling. Public water systems monitoring triennially that have been collecting samples during the months of June through September, and receive the director's approval to alter the sampling collection period in accordance with paragraph (D)(4)(d)(i) of this rule, SHALL collect their next round of samples during a time period that ends no later than forty-five months after the previous round of sampling. Subsequent rounds of sampling SHALL be collected annually or triennially, as REQUIRED by this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(4)(iv)(B)		X	

3745-81-86	(D)(5)(a)	SHALL	A small or medium water system subject to reduced monitoring that exceeds the lead or copper action level SHALL resume tap water monitoring in accordance with paragraph (D)(3) of this rule and collect the number of samples specified for standard monitoring under paragraph (C) of this rule. Such a public water system SHALL also conduct water quality parameter monitoring in accordance with paragraph (B), (C), or (D), as appropriate, of rule 3745-81-87 of the Administrative Code during the monitoring period in which the system exceeded the action level. Any such public water system may resume annual monitoring for lead and copper at the tap at the reduced number of sites specified in paragraph (C) of this rule after it has completed two subsequent consecutive six-month rounds of monitoring that meet the criteria of paragraph (D)(4)(a) of this rule or may resume triennial monitoring for lead and copper after it demonstrates that it meets the criteria of paragraph (D)(4)(c) of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(4)(vi)(A)		X	
3745-81-86	(D)(5)(b)	SHALL	Any public water system subject to the reduced monitoring frequency that exceeds the lead or copper action level during any four-month monitoring period or fails to operate at or above the minimum value or within the range of values for the water quality parameters specified by the director under paragraph (F) of rule 3745-81-82 of the Administrative Code for more than nine days in any six-month period specified in paragraph (D) of rule 3745-81-87 of the Administrative Code SHALL conduct tap water sampling for lead and copper at the frequency specified in paragraph (D)(3) of this rule, collect the number of samples specified for standard monitoring for lead and copper under paragraph (C) of this rule, and SHALL resume monitoring for water quality parameters within the distribution system in accordance with paragraph (D) of rule 3745-81-87 of the Administrative Code. This standard tap water monitoring SHALL begin no later than the six-month period beginning January first or July first, whichever comes first, following the lead or copper action level exceedance or water quality parameter excursion. Such a public water system may resume reduced monitoring for lead and copper at the tap and for water quality parameters within the distribution system under the following conditions:	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(4)(vi)(B)		X	
3745-81-86	(D)(5)(b)(i)	SHALL	The public water system may resume annual monitoring for lead and copper at the tap at the reduced number of sites specified in paragraph (C) of this rule after it has completed two subsequent six-month rounds of monitoring that meet the criteria of paragraph (D)(4)(b) of this rule and the system has received written acceptance from the director that it is appropriate to resume reduced monitoring on an annual frequency. This sampling SHALL begin during the calendar year immediately following the end of the second consecutive six-month monitoring period.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(4)(vi)(B)(1)		X	
3745-81-86	(D)(5)(b)(iii)	MAY NOT	The public water system may reduce the number of water quality parameter tap water samples REQUIRED in accordance with paragraph (E)(1) of rule 3745-81-87 of the Administrative Code and the frequency with which the system collects such samples in accordance with paragraph (E)(2) of rule 3745-81-87 of the Administrative Code. Such a system MAY NOT resume triennial monitoring for water quality parameters at the tap until the system demonstrates, in accordance with the REQUIREments of paragraph (E)(3) of rule 3745-81-87 of the Administrative Code, that the system has re-qualified for triennial monitoring.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(d)(4)(vi)(B)(3)		X	
3745-81-86	(D)(6)	SHALL	Reduced monitoring and changes in water quality, treatment or water source. Any public water system subject to a reduced monitoring frequency under paragraph (D)(4) of this rule SHALL notify the director, and any consecutive or wholesale system, in writing in accordance with paragraph (A)(3) of rule 3745-81-90 of the Administrative Code of any of the following including, but not limited to changes in water quality that has the potential to affect or is affecting optimal corrosion control, upcoming substantial change in treatment, or an addition of a new source. The director SHALL review and approve the addition of a new source or substantial change in water treatment before it is implemented by the water system. The director may REQUIRE the public water system to resume sampling in accordance with paragraph (D)(3) of this rule and collect the number of samples specified for standard monitoring under paragraph (C) of this rule or take other appropriate steps such as increased water quality parameter monitoring or re-evaluation of its corrosion control treatment given the potentially different water quality considerations.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.86(d)(4)(vii) by requiring notification to consecutive systems in addition to the state		X	

3745-81-86	(D)(6)	SHALL	Reduced monitoring and changes in water quality, treatment or water source. Any public water system subject to a reduced monitoring frequency under paragraph (D)(4) of this rule SHALL notify the director, and any consecutive or wholesale system, in writing in accordance with paragraph (A)(3) of rule 3745-81-90 of the Administrative Code of any of the following including, but not limited to changes in water quality that has the potential to affect or is affecting optimal corrosion control, upcoming substantial change in treatment, or an addition of a new source. The director SHALL review and approve the addition of a new source or substantial change in water treatment before it is implemented by the water system. The director may REQUIRE the public water system to resume sampling in accordance with paragraph (D)(3) of this rule and collect the number of samples specified for standard monitoring under paragraph (C) of this rule or take other appropriate steps such as increased water quality parameter monitoring or re-evaluation of its corrosion control treatment given the potentially different water quality considerations.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.86(d)(4)(vii) by requiring notification to consecutive systems in addition to the state		X	X
3745-81-86	(E)	SHALL	The results of any monitoring conducted in addition to the minimum REQUIREments of this rule SHALL be considered by the public water system and the director in making any determinations, i.e., calculating the ninetyth percentile lead or copper level, under rule 3745-81-80 of the Administrative Code. Samples meeting any of the criteria in paragraphs (E)(1) to (E)(5) of this rule will be identified as special purpose and not be considered for compliance with rules 3745-81-80 to 3745-81-90 of the Administrative Code. Water systems SHALL comply with the REQUIREments for consumer notice of special purpose sample results per paragraph (A) of rule 3745-81-85 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.86(e) by defining special purpose sample and requiring CN for these samples		X	
3745-81-86	(F)(2)	SHALL	The public water system SHALL report the results of all samples to the director and all supporting documentation for samples the system believes should be invalidated.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(f)(2)		X	
3745-81-86	(F)(3)	SHALL	To invalidate a sample under paragraph (F)(1) of this rule, the decision and the rationale for the decision SHALL be documented in writing. The director MAY NOT invalidate a sample solely on the grounds that a follow-up sample result is higher or lower than that of the original sample.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(f)(3)		X	X
3745-81-86	(F)(3)	MAY NOT	To invalidate a sample under paragraph (F)(1) of this rule, the decision and the rationale for the decision SHALL be documented in writing. The director MAY NOT invalidate a sample solely on the grounds that a follow-up sample result is higher or lower than that of the original sample.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(f)(3)		X	X
3745-81-86	(F)(4)	SHALL	The public water system SHALL collect replacement samples for any samples invalidated under paragraph (F)(1) of this rule if, after the invalidation of one or more samples, the system has too few samples to meet the minimum REQUIREments of paragraph (C) of this rule. Any such replacement samples SHALL be taken as soon as possible, but no later than twenty days after the date the director invalidates the sample or by the end of the applicable sampling period, whichever occurs later. Replacement samples taken after the end of the applicable sampling period SHALL not also be used to meet the sampling REQUIREments of a subsequent sampling period. The replacement samples SHALL be taken at the same locations as the invalidated samples or, if that is not possible, at locations other than those already used for sampling during the sampling period.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.86(f)(4)		X	
3745-81-87	Intro	SHALL	All large public water systems SHALL monitor water quality parameters in addition to lead and copper in accordance with this rule. All small and medium public water systems that exceed the lead or copper action level SHALL monitor water quality parameters in addition to lead and copper in accordance with this rule. For performing the analyses of water quality parameters set forth in this rule, laboratories are exempt from the REQUIREments of rule 3745-89-02 of the Administrative Code. The REQUIREments of this rule are summarized in the table at the end of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87 intro		X	
3745-81-87	(A)(1)(a)	SHALL	Tap samples SHALL be representative of water quality throughout the distribution system taking into account the number of persons served, the different sources of water, the different treatment methods employed by the public water system, and seasonal variability. Tap sampling under this rule is not REQUIRED to be conducted at taps targeted for lead and copper sampling under paragraph (A) of rule 3745-81-86 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(a)(1)(i)		X	
3745-81-87	(A)(1)(b)	SHALL	Samples collected at the entry points to the distribution system SHALL be from locations representative of each water source after treatment. If a public water system draws water from more than one water source and the sources are combined before distribution, the system SHALL monitor at each sampling point during periods of normal operating conditions, that is, when water is representative of all sources being used.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(a)(1)(ii)		X	

3745-81-87	(A)(2)(a)	SHALL	Public water systems SHALL collect two tap samples for applicable water quality parameters during each monitoring period specified under paragraphs (B) to (E) of this rule from the following number of sites.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(a)(2)(i)		X	
3745-81-87	(A)(2)(b)	SHALL	Except as provided in paragraph (C)(3) of this rule, public water systems SHALL collect two samples for each applicable water quality parameter at each entry point to the distribution system during each monitoring period specified in paragraph (B) of this rule. During each monitoring period specified in paragraphs (C) to (E) of this rule, systems SHALL collect one sample for each applicable water quality parameter at each entry point to the distribution system.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(a)(2)(ii)		X	
3745-81-87	(B)	SHALL	Initial sampling. All large public water systems SHALL measure the applicable water quality parameters as specified below at taps and at each entry point to the distribution system during each six-month period specified in paragraph (D)(1) of rule 3745-81-86 of the Administrative Code. All small and medium public water systems SHALL measure the applicable water quality parameters at the locations specified below during each six month monitoring period specified in paragraph (D)(1) of rule 3745-81-86 of the Administrative Code during which the system exceeds the lead or copper action level.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(b)		X	
3745-81-87	(C)	SHALL	Monitoring after installation of corrosion control. Any large public water system which installs optimal corrosion control treatment pursuant to paragraph (D)(4) of rule 3745-81-81 of the Administrative Code SHALL measure the water quality parameters at the locations and frequencies specified in paragraphs (C)(1) and (C)(2) of this rule during each six-month monitoring period specified in paragraph (D)(2)(a) of rule 3745-81-86 of the Administrative Code. Any small or medium public water system which installs optimal corrosion control treatment SHALL conduct water quality parameter monitoring specified in paragraphs (C)(1) and (C)(2) of this rule during each six-month monitoring period specified in paragraph (D)(2)(b) of rule 3745-81-86 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(c)		X	
3745-81-87	(C)(2)	SHALL	Except as provided in paragraph (C)(3) of this rule, at each entry point to the distribution system, at least one sample no less frequently than every two weeks for the following: (a) pH. (b) Alkalinity concentration when alkalinity is adjusted as part of optimal corrosion control. A reading of the dosage rate of the chemical used to adjust alkalinity SHALL also be included. (c) The concentration of orthophosphate or silica, whichever is applicable, when a corrosion inhibitor is used as part of optimal corrosion control. A reading of the dosage rate of the inhibitor used SHALL also be included.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(c)(2)		X	
3745-81-87	(C)(3)	SHALL	Any ground water system can limit entry point sampling described in paragraph (C)(2) of this rule to those entry points that are representative of water quality and treatment conditions throughout the system. If water from untreated ground water sources mixes with water from treated water sources, the public water system SHALL monitor for water quality parameters both at representative entry points receiving treatment and representative entry points receiving no treatment. Prior to the start of monitoring under this paragraph, the public water system SHALL provide to the director written information on seasonal variability, sufficient to demonstrate that the sites are representative of water quality and treatment conditions throughout the system.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(c)(3)		X	

3745-81-87	(D)	SHALL	Monitoring after the director specifies water quality parameter values for optimal corrosion control. After the director specifies the values for applicable water quality control parameters reflecting optimal corrosion control treatment under paragraph (F) of rule 3745-81-82 of the Administrative Code, all large public water systems SHALL measure the applicable water quality parameters in accordance with paragraph (C) of this rule and determine compliance with the REQUIREments of paragraph (G) of rule 3745-81-82 of the Administrative Code for every six-month period to begin on either January first or July first, whichever comes first, after the director specifies the optimal values under paragraph (F) of rule 3745-81-82 of the Administrative Code. Any small or medium public water system SHALL conduct such monitoring during each six-month period specified in this paragraph. For any such small or medium public water system that is subject to a reduced monitoring frequency pursuant to paragraph (D)(4) of rule 3745-81-86 of the Administrative Code, at the time of the action level exceedance, the start of the applicable six-month period under this paragraph SHALL coincide with the start of the applicable monitoring period under paragraph (D)(4) of rule 3745-81-86 of the Administrative Code. Compliance with director-designated optimal water quality parameter values SHALL be determined as specified under paragraph (G) of rule 3745-81-82 of the Administrative Code. Upon the determination of an action level exceedance, any public water system that is subject to a reduced monitoring frequency pursuant to paragraph (D)(4) of rule 3745-81-86 of the Administrative Code SHALL report applicable water quality parameters in accordance with this rule within thirty days or by the end of the water quality parameter monitoring period, whichever is sooner.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.87(d) by requiring a PWS on reduced monitoring with an ALE to collect WQP samples within 30 days or by the end of the WQP monitoring period, whichever is sooner		X	
3745-81-87	(E)(1)	SHALL	Any public water system that maintains the range of values for the water quality parameters reflecting optimal corrosion control treatment during each of two consecutive six-month monitoring periods under paragraph (D) of this rule SHALL continue monitoring at the entry points to the distribution system as specified in paragraph (C)(2) of this rule. Such system may monitor with two tap samples for applicable water quality parameters from each of the following reduced number of sites during each six-month monitoring period. A water system monitoring from a reduced number of sites prior to the effective date of this rule may continue with the reduced number of monitoring sites except as modified by paragraph (E)(5) of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(e)(1)		X	
3745-81-87	(E)(2)	SHALL	Reduced annual water quality parameter monitoring. In order to reduce the monitoring frequency to annual monitoring of the number of tap samples for applicable water quality parameters, the water system SHALL submit a request to the director for approval. This request SHALL demonstrate the system maintains the ranges of values for the water quality parameters reflecting optimal corrosion control treatment specified by the director under paragraph (F) of rule 3745-81-82 of the Administrative Code during three consecutive years of monitoring. If approved by the director, this sampling begins during the calendar year immediately following the end of the monitoring period in which the third consecutive year of six-month monitoring occurs.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.87(e)(2)(i) by requiring systems to request a reduction in monitoring		X	
3745-81-87	(E)(3)	SHALL	Reduced triennial water quality parameter monitoring. As of the effective date of this rule, no water systems are eligible to continue to conduct or reduce to triennial monitoring of the number of tap samples for applicable water quality parameters specified in paragraph (E)(1) of this rule without meeting criteria in paragraph (E)(3)(a) or (E)(3)(b) of this rule and receiving written approval from the director. Any water systems that did not receive approval from the director and were conducting triennial monitoring prior to the effective date of this rule, SHALL conduct water quality parameter monitoring, at a minimum, annually	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.81(e)(2)(ii) by adding requirements for sstems attempting to reduce WQP monitoring to triennial		X	
3745-81-87	(E)(3)(a)	SHALL	In order to conduct triennial monitoring of the number of tap samples for applicable water quality parameters, the water system SHALL demonstrate the system maintains the range of values for the water quality parameters reflecting optimal corrosion control treatment specified by the director under paragraph (F) of rule 3745-81-82 of the Administrative Code during three consecutive years of annual monitoring. If approved by the director, this sampling begins no later than the third calendar year following the end of the monitoring period in which the third consecutive year of monitoring occurs.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.87(e)(2)(ii) by requiring 3 years of annual WQP monitoring within OWQP ranges		X	

3745-81-87	(E)(3)(b)	SHALL	In order to conduct triennial monitoring of the number of tap samples for applicable water quality parameters specified in paragraph (E)(1) of this rule, the water system SHALL demonstrate during two consecutive monitoring periods that its tap water lead level at the ninetieth percentile is less than or equal to the practical quantitation limit (PQL) for lead specified in paragraph (B)(2) of rule 3745-81-89 of the Administrative Code, that its tap water copper level at the ninetieth percentile is less than or equal to 0.65 milligrams per liter in paragraph (C)(2) of rule 3745-81-80 of the Administrative Code, and that it has maintained the range of values for the water quality parameters reflecting optimal corrosion control treatment specified by the director under paragraph (F) of rule 3745-81-82 of the Administrative Code. If approved by the director, triennial monitoring SHALL be done no later than every third calendar year.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(e)(2)(ii)		X	
3745-81-87	(E)(4)	SHALL	A public water system that conducts monitoring annually SHALL collect samples evenly throughout the year so as to reflect seasonal variability.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(e)(3)		X	
3745-81-87	(E)(5)	SHALL	Any public water system subject to annual or triennial monitoring that fails to operate at or above the minimum value or within the range of values for the water quality parameters specified by the director under paragraph (F) of rule 3745-81-82 of the Administrative Code for more than nine days in any six-month period specified in paragraph (G) of rule 3745-81-82 of the Administrative Code SHALL resume tap water sampling in accordance with the number and frequency REQUIREments in paragraph (D) of this rule. Such a system may resume annual monitoring for water quality parameters at the tap at the reduced number of sites specified in paragraph (E)(1) of this rule after it has completed two subsequent consecutive six-month rounds of monitoring that meet the criteria of that paragraph or may resume triennial monitoring for water quality parameters at the tap at the reduced number of sites after it demonstrates through subsequent rounds of monitoring that it meets the criteria of either paragraph (E)(2) or (E)(3) of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(e)(4)		X	
3745-81-87	(F)	SHALL	Additional monitoring by public water systems. The results of any monitoring conducted in addition to the minimum REQUIREments of this rule SHALL be considered by the system and the director in making any determinations, i.e., determining concentrations of water quality parameters, under this rule or rule 3745-81-82 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.87(f)		X	
3745-81-88	(A)(1)	SHALL	A public water system that exceeds the lead or copper action level on the basis of tap water samples collected in accordance with rule 3745-81-86 of the Administrative Code SHALL monitor for lead and copper in source water at the entry point to the distribution system in accordance with the following REQUIREments regarding sampling point locations, collection methods, and number of samples:	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(a)(1)		X	
3745-81-88	(A)(1)(a)	SHALL	Ground water systems SHALL take a minimum of one sample at every entry point to the distribution system which is representative of each well after treatment (hereafter called a sampling point). The public water system SHALL take one sample at the same sampling point unless conditions make another sampling point more representative of each source or treatment plant.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(a)(1)(i)		X	
3745-81-88	(A)(1)(b)	SHALL	Surface water systems SHALL take a minimum of one sample at every entry point to the distribution system after any application of treatment or in the distribution system at a point which is representative of each source after treatment (hereafter called a sampling point). The public water system SHALL take each sample at the same sampling point unless conditions make another sampling point more representative of each source or treatment plant. Note: For the purposes of this paragraph, surface water systems include systems with a combination of surface and ground water sources.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(a)(1)(ii)		X	
3745-81-88	(A)(1)(c)	SHALL	If a public water system draws water from more than one source and the sources are combined before distribution, the public water system SHALL sample at an entry point to the distribution system during periods of normal operating conditions, i.e., when water is representative of all sources being used.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(a)(1)(iii)		X	
3745-81-88	(A)(1)(d)	SHALL	The director may reduce the total number of samples which MUST be analyzed by allowing the use of compositing. Compositing of samples SHALL be done by certified laboratory personnel. Composite samples from a maximum of five samples are allowed, provided that if the lead concentration in the composite sample is greater than or equal to 0.001 milligram per liter or the copper concentration is greater than or equal to 0.160 milligram per liter, then either: (i) A follow-up sample SHALL be taken and analyzed within fourteen days at each sampling point included in the composite; or (ii) If duplicates of or sufficient quantities from the original samples from each sampling point used in the composite are available, the public water system may use these instead of resampling.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(a)(1)(iv)		X	

3745-81-88	(A)(2)	REQUIRE	Where the results of monitoring indicate an exceedance of maximum permissible levels in the source water at the entry point to the distribution system established under paragraph (B)(4) of rule 3745-81- 83 of the Administrative Code, the director may REQUIRE that the public water system monitor with one additional sample as soon as possible after the initial monitoring (but not to exceed two weeks) at the same sampling point. If a director-REQUIRED confirmation sample is taken for lead or copper, then the results of the initial and confirmation monitoring SHALL be averaged in determining compliance with the director-specified maximum permissible levels. Any sample value below the method detection limit (MDL) SHALL be considered to be zero. Any lead value above the MDL but below the practical quantitation level (PQL) of 0.005 milligram per liter SHALL be considered as the measured value. Any copper value above the MDL but below the PQL of 0.050 milligram per liter SHALL be considered as the measured value.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(a)(2)		X	
3745-81-88	(A)(2)	SHALL	Where the results of monitoring indicate an exceedance of maximum permissible levels in the source water at the entry point to the distribution system established under paragraph (B)(4) of rule 3745-81- 83 of the Administrative Code, the director may REQUIRE that the public water system monitor with one additional sample as soon as possible after the initial monitoring (but not to exceed two weeks) at the same sampling point. If a director-REQUIRED confirmation sample is taken for lead or copper, then the results of the initial and confirmation monitoring SHALL be averaged in determining compliance with the director-specified maximum permissible levels. Any sample value below the method detection limit (MDL) SHALL be considered to be zero. Any lead value above the MDL but below the practical quantitation level (PQL) of 0.005 milligram per liter SHALL be considered as the measured value. Any copper value above the MDL but below the PQL of 0.050 milligram per liter SHALL be considered as the measured value.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(a)(2)		X	
3745-81-88	(B)	SHALL	Monitoring frequency after public water system exceeds tap water action level. Any system which exceeds the lead or copper action level at the tap SHALL monitor one sample from each source water at the entry point to the distribution system no later than six months after the end of the monitoring period during which the lead or copper action level was exceeded. For monitoring periods that are annual or less frequent, the end of the monitoring period is September thirtieth of the calendar year in which the sampling occurs, or if the director established an alternate period, the last day of that period.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(b)		X	
3745-81-88	(C)	SHALL	Monitoring frequency after installation of source water treatment. Any public water system which installs source water treatment pursuant to paragraph (A)(3) of rule 3745-81-83 of the Administrative Code SHALL collect an additional sample from each source water at the entry point to the distribution system during each of two consecutive six-month monitoring periods by the deadline specified in paragraph (A)(4) of rule 3745-81-83 of the Administrative Code.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(c)		X	
3745-81-88	(D)(1)	SHALL	A public water system SHALL monitor at the frequency specified in paragraph (D)(1)(a) or (D)(1)(b) of this rule in cases where the director specifies maximum permissible source water at the entry point to the distribution system levels under paragraph (B)(4) of rule 3745-81-83 of the Administrative Code or determines that the public water system is not REQUIRED to install source water treatment under paragraph (B)(2) of rule 3745-81-83 of the Administrative Code.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(d)(1)		X	
3745-81-88	(D)(1)(a)	SHALL	A public water system using only ground water SHALL monitor once during the three-year compliance period (as that term is defined in rule 3745-81-01 of the Administrative Code) in effect when the applicable director's determination under paragraph (D)(1) of this rule is made. Such public water systems SHALL monitor once during each subsequent compliance period. Triennial samples SHALL be collected every third calendar year.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(d)(1)(i)		X	
3745-81-88	(D)(1)(b)	SHALL	A public water system using surface water (or a combination of surface water and ground water) SHALL monitor once during each year, the first annual monitoring period to begin during the year in which the applicable director's determination is made under paragraph (D)(1) of this rule.	6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.88(d)(1)(ii)		X	
3745-81-89	(A)	SHALL	Analyses for pH, conductivity, calcium, alkalinity, orthophosphate, silica and temperature SHALL be performed using analytical methods as specified in rule 3745-81-27 of the Administrative Code	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.89(a)		X	

3745-81-89	(B)	SHALL	Analyses for lead and copper SHALL be performed using analytical methods as specified in rule 3745-81-27 of the Administrative Code and SHALL only be conducted by laboratories certified by the director and meet all REQUIREments specified in rule 3745-89-03 of the Administrative Code. Laboratories performing these analyses SHALL do the following: (1) Achieve the method detection limit (MDL) for lead of 0.001 milligrams per liter according to the procedures in rule 3745-89-03 of the Administrative Code. This need only be accomplished if the laboratory will be processing source water at the entry point to the distribution system composite samples under paragraph (A)(1)(d) of rule 3745-81-88 of the Administrative Code. (2) Use the practical quantitation level (PQL) for lead of 0.005 milligrams per liter. (3) Use the PQL for copper of 0.050 milligrams per liter. (4) Complete analysis of lead or copper sample not later than thirty business days after receipt of the sample.	6109.121, 6109.04	Fed REQUIRED and State REQUIRED	Exceeds 40 CFR 141.49(a)(1) by requiring the analysis of lead and copper within 30 business days of receipt of sample		X	
3745-81-89	(D)	MUST	All lead and copper levels measured between the PQL and MDL, as specified in paragraph (B) of this rule, MUST be reported as measured. Any samples below the MDL SHALL be reported as zero.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.89(a)(3)		X	
3745-81-89	(D)	SHALL	All lead and copper levels measured between the PQL and MDL, as specified in paragraph (B) of this rule, MUST be reported as measured. Any samples below the MDL SHALL be reported as zero.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.89(a)(3)		X	
3745-81-90	(A)(1)	SHALL	Except as provided in paragraph (A)(1)(g) of this rule, a public water system SHALL report the information specified below for all tap water samples and all water quality parameter samples within ten days following the end of the month in which the system receives the sample results, as specified in rules 3745-81-86 and 3745-81-87 of the Administrative Code.	6109.121, 6109.04	Fed optional	Exceeds 40 CFR 141.90(a)(1) by requiring reporting for WQPs by the 10th day following the month the results were received, rather than the end of the monitoring period		X	
3745-81-90	(A)(1)(d)	SHALL	With the exception of initial tap monitoring conducted pursuant to paragraph (D)(1) of rule 3745-81-86 of the Administrative Code, the public water system SHALL designate any site which was not sampled during previous monitoring periods, and include an explanation of why sampling sites have changed.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(a)(1)(v)		X	
3745-81-90	(A)(1)(g)	SHALL	A water system SHALL report the results of all water quality parameter samples collected under paragraphs (C) to (F) of rule 3745-81-87 of the Administrative Code during each six-month monitoring period specified in paragraph (D) of rule 3745-81-87 of the Administrative Code within ten days after the month in which the sample was analyzed, unless the director has specified a more frequent reporting REQUIREment.	6109.121, 6109.04	Fed optional	Exceeds 40 CFR 141.90(a)(1)(viii) by requiring reporting for WQPs by the 10th day following the month the sample was analyzed, rather than the end of the monitoring period		X	
3745-81-90	(A)(2)	SHALL	For a nontransient noncommunity water system, or a community water system meeting the criteria of paragraphs (G)(8)(a) and (G)(8)(b) of rule 3745-81-85 of the Administrative Code, that does not have enough taps that can provide first-draw samples, the public water system SHALL do one of the following: (a) Provide written documentation to the director identifying standing times and locations for enough non-first-draw samples to make up its sampling pool under paragraph (B)(5) of rule 3745-81-86 of the Administrative Code by the start of the first applicable monitoring period under paragraph (D) of rule 3745-81-86 of the Administrative Code that commences after April 11, 2000, unless the director has waived prior director approval of non-first-draw sample sites selected by the system pursuant to paragraph (B)(5) of rule 3745-81-86 of the Administrative Code. (b) If the director has waived prior approval of non-first-draw sample sites selected by the system, identify, in writing, each site that did not meet the six-hour minimum standing time and the length of standing time for that particular substitute sample collected pursuant to paragraph (B)(5) of rule 3745-81-86 of the Administrative Code and include this information with the lead and copper tap sample results REQUIRED to be submitted pursuant to paragraph (A)(1)(b) of this rule.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(a)(2)		X	
3745-81-90	(A)(3)	SHALL	At a time specified by the director, or if no specific time is designated, then as early as possible, water systems SHALL notify the director of changes in water quality that could affect corrosion control treatment, in accordance with paragraph (F) of rule 3745-81-81 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED and State REQUIRED	Exceeds 40 CFR 141.90(a)(3) by requiring any system with water quality changes to report to director		X	

3745-81-90	(A)(4)	SHALL	Each ground water system that limits water quality parameter monitoring to a subset of entry points under paragraph (C)(3) of rule 3745-81-87 of the Administrative Code SHALL provide, by the commencement of such monitoring, written correspondence to the director that identifies the selected entry points and includes information sufficient to demonstrate that the sites are representative of water quality and treatment conditions throughout the system.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(a)(5)		X	
3745-81-90	(B)(1)	SHALL	A public water system SHALL report the monitoring results for all samples of source water at the entry point to the distribution system collected in accordance with rule 3745-81-88 of the Administrative Code within the first ten days following the end of each entry-point water monitoring period (i.e., per six-month period, annually, per compliance period, per compliance cycle) for which a sample was collected as specified in rule 3745-81-88 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(b)(1)		X	
3745-81-90	(B)(2)	SHALL	With the exception of the first round of source water at the entry point to the distribution system monitoring conducted pursuant to paragraph (B) of rule 3745-81-88 of the Administrative Code, the public water system SHALL specify any site which was not sampled during previous monitoring periods, and include an explanation of why the sampling point has changed.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(b)(2)		X	
3745-81-90	(C)	SHALL	Corrosion control treatment reporting REQUIREments. By the applicable dates under rule 3745-81-81 of the Administrative Code, public water systems SHALL report the following information: (1) For systems demonstrating that they have already optimized corrosion control, information REQUIRED in paragraph (B)(2) or (B)(3) of rule 3745-81-81 of the Administrative Code. (2) For systems REQUIRED to optimize corrosion control, their recommendation regarding optimal corrosion control treatment under paragraph (A) of rule 3745-81-82 of the Administrative Code. (3) For systems REQUIRED to evaluate the effectiveness of corrosion control treatments under paragraph (C) of rule 3745-81-82 of the Administrative Code, the information REQUIRED by that paragraph. (4) For systems REQUIRED to install optimal corrosion control approved by the director under paragraph (D) of rule 3745-81-82 of the Administrative Code, a letter certifying that the system has completed installing that treatment.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(c)		X	
3745-81-90	(D)	SHALL	Source water treatment reporting REQUIREments. By the applicable dates in rule 3745-81-83 of the Administrative Code, systems SHALL provide the following information to the director: (1) If REQUIRED under paragraph (B)(1) of rule 3745-81-83 of the Administrative Code, their recommendation regarding source water treatment. (2) For systems REQUIRED to install source water treatment under paragraph (B)(2) of rule 3745-81-83 of the Administrative Code, a letter certifying that the system has completed installing the treatment approved by the director within twenty-four months after the director approved the treatment.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(d)		X	
3745-81-90	(E)	SHALL	Lead service line replacement reporting REQUIREments. Public water systems SHALL report the following information to the director to demonstrate compliance with the REQUIREments of rule 3745-81-84 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(e)		X	
3745-81-90	(E)(1)	SHALL	No later than twelve months after the end of a monitoring period in which a public water system exceeds the lead action level in monitoring referred to in paragraph (A) of rule 3745-81-84 of the Administrative Code, the system SHALL submit in written documentation to the director the material evaluation, conducted as REQUIRED in paragraph (A) of rule 3745-81-86 of the Administrative Code, identify the initial number of lead service lines in its distribution system at the time the system exceeds the lead action level, and provide the system's schedule for annually replacing at least seven per cent of the initial number of lead service lines in the distribution system.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(e)(1)		X	
3745-81-90	(E)(2)	SHALL	No later than twelve months after the end of a monitoring period in which a system exceeds the lead action level in monitoring referred to in paragraph (A) of rule 3745-81-84 of the Administrative Code, and every twelve months thereafter, the system SHALL demonstrate to the director in writing that the system has replaced in the previous twelve months at least seven per cent of the initial lead service lines (or a greater number of lines specified by the director in accordance with rule 3745-81-84 of the Administrative Code) in the distribution system.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.90(e)(2) by removing the reporting REQUIREment for LSL monitoring counting as a replacement (this was removed from 3745-81-84)		X	

3745-81-90	(E)(3)	SHALL	The annual letter submitted to the director under paragraph (E)(2) of this rule SHALL contain the following information: (a) The number of lead service lines scheduled to be replaced during the previous year of the system's replacement schedule. (b) The number and location of each lead service line replaced during the previous year of the system's replacement schedule. (c) If measured, the water lead concentration and location of each lead service line sampled, the sampling method, and the date of sampling.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(e)(3)		X	
3745-81-90	(E)(4)	SHALL	Any system which collects lead service line samples following partial lead service line replacement REQUIRED by rule 3745-81-84 of the Administrative Code SHALL report the results to the director within two business days of receiving the laboratory results, or as specified by the director. The director has the discretion to eliminate this REQUIREment to report these monitoring results. Systems SHALL also report any additional information as specified by the director, in a time and manner prescribed by the director, to verify that all lead service line replacement activities have taken place.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.90(e)(4) by requiring PWSs to report results to Ohio EPA within 2 business days of receipt of analysis		X	
3745-81-90	(F)	SHALL	Reporting REQUIREments for consumer notice and public notification. The water system SHALL certify to the director no later than five business days after receipt of the laboratory results that the system has complied with the REQUIREments of paragraphs (A)(1), (A)(3)(a), (A)(3)(b), (C)(1), (C)(2) and (E) of rule 3745-81-85 of the Administrative Code, as applicable. Certification SHALL be submitted on a form and in a manner approved by the director	6109.121, 6109.04	Fed REQUIRED and State REQUIRED	Exceeds 40 CFR 141.90(f)(1) and (f)(3) by requiring verification of LPN and CN within 5 business days		X	
3745-81-90	(G)(1)	SHALL	Any public water system that is subject to the public education REQUIREments in rule 3745-81-85 of the Administrative Code SHALL, within five business days of delivering the public education in accordance with paragraph (G) of rule 3745-81-85 of the Administrative Code, send written documentation to the director that contains the following: (a) A demonstration that the system has delivered the public education materials that meet the content REQUIREments in paragraph (F) of rule 3745-81-85 of the Administrative Code and the delivery REQUIREments in paragraph (G) of rule 3745-81-85 of the Administrative Code. (b) A list of all the newspapers, radio stations, television stations, and facilities and organizations to which the system delivered public education materials during the period in which the system was REQUIRED to perform public education tasks.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.90(f)(1) by requiring verification of PE within 5 business days of issuing PE		X	
3745-81-90	(G)(2)	SHALL	Unless REQUIRED by the director, a public water system that previously has submitted the information REQUIRED by paragraph (G)(1)(b) of this rule need not resubmit the information REQUIRED by paragraph (G)(1)(b) of this rule, as long as there have been no changes in the distribution list and the system certifies that the public education materials were distributed to the same list submitted previously.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(f)(2)		X	
3745-81-90	(H)	SHALL	Any public water system which collects monitoring data in addition to that REQUIRED by rules 3745-81-80 to 3745-81-88 of the Administrative Code SHALL report the results to the director within the first ten days following the end of the month in which the system receives the sample results, as specified in rules 3745-81-86 to 3745-81-88 of the Administrative Code.	6109.121, 6109.04	Fed REQUIRED	Exceeds 40 CFR 141.90(g) by requiring results to be reported 10 days after month in which results were received (rather than 10 days after end of monitoring period)		X	
3745-81-90	(I)(1)	SHALL	Reporting of ninetieth percentile lead and copper concentrations where the director calculates a system's ninetieth percentile concentrations. A public water system is not REQUIRED to report the ninetieth percentile lead and copper concentrations measured from among all lead and copper tap water samples collected during each monitoring period, as REQUIRED by paragraph (A)(1)(d) of this rule if the following occurs: (1) The director has previously notified the water system that the director will calculate the water system's ninetieth percentile lead and copper concentrations, based on the lead and copper tap results submitted pursuant to paragraph (I)(2)(a) of this rule, and has specified a date before the end of the applicable monitoring period by which the public water system SHALL provide the results of lead and copper tap water samples.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.90(h)(1)		X	
3745-81-90	(J)	SHALL	Any public water system subject to the REQUIREments of rules 3745-81-80 to 3745-81-89 of the Administrative Code SHALL retain on the premises original records of all sampling data and analyses, reports, surveys, letters, evaluations, schedules, director's determinations, and any other information REQUIRED by rules 3745-81-80 to 3745-81-89 of the Administrative Code. Each water system SHALL retain the records REQUIRED by this rule for no fewer than twelve years.	6109.121, 6109.04	Fed REQUIRED	Does not exceed 40 CFR 141.91		X	

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-82-01	(A)	SHALL	Except as otherwise noted, the definitions in rule 3745-81-01 of the Administrative Code SHALL apply to this chapter.	6109.04	Fed	40 CFR § 143.2			
3745-82-03	N/A	SHALL, SHALL	The parameters in this chapter SHALL be monitored at the intervals prescribed in Chapters 3745-81 and 3745-82 of the Administrative Code or rule 3745-83-01 of the Administrative Code, except that, if the director prescribes in written notice to the affected system other intervals necessary to protect the public health or welfare, the parameters SHALL be monitored at the intervals prescribed in the written notice.	6109.04	Federal and State REQUIRED	40 CFR 143.4	X		x
3745-82-04	(A)	SHALL	(1) Monitoring and compliance determinations for the secondary maximum contaminant level (SMCL) for fluoride specified in rule 3745-82-02 of the Administrative Code SHALL be as follows:	6109.04	Federal REQUIRED	40 CFR 143.4	x		
3745-82-04	(A)	REQUIRED	(a) Public water systems may use the monitoring conducted for compliance with the maximum contaminant level (MCL) in paragraph (B) of rule 3745-81-11 of the Administrative Code to determine compliance with the SMCL for fluoride. The REQUIRED monitoring to determine compliance with the MCL is specified in rule 3745-81-23 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 143.4	x		
3745-82-04	(A)	SHALL	(b) If a public water system collects more than one sample per year, it SHALL be in compliance when the average of quarterly averages of all samples collected at each entry point to the distribution system during a calendar year does not exceed the SMCL for fluoride.	6109.04	Federal REQUIRED	40 CFR 143.4	x		
3745-82-04	(A)	SHALL, REQUIRED, SHALL	(c) Public water systems that collect one sample annually or less frequently SHALL be in compliance when the most recent sample does not exceed the SMCL for fluoride. When a public water system is REQUIRED to take a confirmation sample under paragraph (F) of rule 3745-81-23 of the Administrative Code, the system SHALL be in compliance if the average of the initial and confirmation sample results does not exceed the SMCL for fluoride.	6109.04	Federal REQUIRED	40 CFR 143.4	x		
3745-82-04	(B)	SHALL	(1) Monitoring and compliance determinations for the SMCL for fluoride specified in rule 3745-82-02 of the Administrative Code SHALL be as follows:	6109.04	Federal REQUIRED	40 CFR 143.4	x		
3745-82-04	(B)	REQUIRED	(a) Public water systems SHALL use the monitoring conducted for compliance with rule 3745-83-01 of the Administrative Code to determine compliance with the SMCL for fluoride.	6109.04	Federal REQUIRED	40 CFR 143.4			
3745-82-04	(B)	SHALL	(b) A public water system SHALL be in compliance when the running annual average of monthly averages of all samples collected at each entry point to the distribution system as determined monthly does not exceed the fluoride SMCL.	6109.04	State REQUIRED				
3745-82-04	(B)	SHALL	(2) Public water systems adding fluoride SHALL maintain a fluoride range of 0.8 milligrams per liter to 1.3 milligrams per liter in their finished water pursuant to section 6109.20 of the Revised Code. Compliance SHALL be determined monthly at each entry point, based on the average of all daily samples collected for compliance with rule 3745-83-01 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 143.4			
3745-82-04	(B)	MUST	The monthly average fluoride content MUST be between 0.8 and 1.3 milligrams per liter at each entry point. A public water system SHALL notify Ohio EPA within forty-eight hours of any instance in which the daily average fluoride concentration is greater than 1.3 milligrams per liter. If a public water system has four or more days during a month in which the daily average fluoride concentration is outside a range of 0.7 milligrams per liter to 1.3 milligrams per liter, the public water system is in violation unless the system has approval from the director to perform a tracer study and the fluoride level in the distribution system does not exceed 2.0 milligrams per liter.	6109.04	State REQUIRED				
3745-82-04	(B)	SHALL	3) Public water systems that add supplemental fluoride SHALL keep a daily record of the amount of fluoride compound added, the quantity of water fluoridated, the calculated fluoride dosage, and the fluoride content of the water as delivered to their customers.	6109.04	State REQUIRED				x
3745-82-04	(B)	SHALL	4) Public water systems that lose their capability to accurately determine the fluoride content of their finished water due to laboratory equipment failure or malfunction, SHALL cease feeding all fluoride compounds and notify the Ohio EPA within forty-eight hours with a tentative schedule for re-establishing laboratory capabilities.	6109.04	Federal REQUIRED	40 CFR 143.4			
3745-82-04	(B)	SHALL	5) Public water systems that lose their capability to feed fluoride SHALL notify Ohio EPA within forty-eight hours and provide a tentative schedule for resumption of acceptable fluoridation.	6109.04	Federal REQUIRED	40 CFR 143.4			
3745-82-04	(B)	REQUIRED	(6) A public water system determined to exceed 10.0 milligrams per liter due to over-feed events may be REQUIRED to issue a no-use advisory.	6109.04	Federal REQUIRED	40 CFR 143.4			
3745-82-04	(C)	SHALL	A public water system determined to exceed the SMCL for fluoride under paragraph (A) or (B) of this rule SHALL notify the persons served by the public water system in accordance with paragraph (D) of rule 3745-81-32 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 143.4			

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-83-01	(A)	SHALL	Except as otherwise noted, the definitions in rule 3745-81-01 of the Administrative Code SHALL apply to this chapter.	6109.04	State REQUIRED				
3745-83-01	(B)	REQUIRED, SHALL	Except as otherwise noted, analyses REQUIRED by this rule SHALL be conducted in accordance with methods as specified in rule 3745-81-27 of the Administrative Code.	6109.04	State REQUIRED				
3745-83-01	(B)	SHALL	In addition, analysis for parameters listed in the table in this paragraph SHALL be conducted in a laboratory certified in accordance with Chapter 3745-89 of the Administrative Code:	6109.04	State REQUIRED				
3745-83-01	(C)(1)	SHALL	Except as prescribed in rule 3745-81-72 of the Administrative Code, noncommunity public water systems serving a population of at least one thousand people and all community public water systems SHALL maintain a minimum chlorine residual of at least two-tenths milligram per liter free chlorine, or one milligram per liter combined chlorine measured at representative points throughout the distribution system.	6109.04	State REQUIRED				
3745-83-01	(C)(1)	SHALL	All other noncommunity public water systems that provide water treated with chlorine for disinfection purposes SHALL maintain the chlorine residual levels as described in this rule.	6109.04	State REQUIRED				
3745-83-01	(C)(1)	REQUIRE	The director may REQUIRE higher residuals as necessary to compensate for pH, temperature, or other characteristics of the delivered water	6109.04	State REQUIRED				X
3745-83-01	(C)(1)	REQUIRE	Contact your district office representative if you have questions or REQUIRE clarification.	6109.04	State REQUIRED				
3745-83-01	(C)(2)	SHALL	Noncommunity public water systems serving a population of at least one thousand people and all community public water systems SHALL install and place in operation equipment capable of meeting disinfection REQUIREments of this rule.	6109.04	State REQUIRED				
3745-83-01	(C)(3)	REQUIRED	A system is exempt from maintaining a chlorine residual as REQUIRED in paragraph (C)(1) of this rule if, with written approval of the director, it uses chlorine dioxide as a primary disinfectant in accordance with the terms of the approval.	6109.04	State REQUIRED				
3745-83-01	(C)(4)	REQUIRED	the director may REQUIRE a public water system subject to paragraph (C)(1) of this rule to maintain a minimum chlorine residual of at least one milligram per liter free chlorine, or six milligrams per liter combined chlorine measured at representative points throughout the distribution system, despite possible resulting tastes or odors in the delivered water.	6109.04	State REQUIRED				X
3745-83-01	(C)(5)	SHALL	"Finished water storage facilities," means a tank, reservoir, or other facility used to store water that will undergo no further treatment except residual disinfection, aeration or recirculation. Finished water storage facilities serving noncommunity water systems serving a population of at least one thousand people and all community water systems, prior to being placed into service or being returned to service after repairs, inspections, painting, cleaning, or other activities that might lead to contamination, SHALL complete the following:	6109.04	State REQUIRED				
3745-83-01	(C)(6)	SHALL	Water mains serving noncommunity water systems serving a population of at least one thousand people and all community water systems, prior to being placed into service or being returned to service after repairs, inspections, or other activities that might lead to contamination, unless a minimum pressure of twenty pounds per square inch gauge at ground level is maintained at all points in the distribution system, SHALL complete the following:	6109.04	State REQUIRED				
3745-83-01	(D)	SHALL	Approval of chemicals and components. All chemicals, substances, and materials added to or brought in contact with water in or intended to be used in a public water system or used for the purpose of treating, conditioning, altering, or modifying the characteristics of such water SHALL be shown by either the manufacturer, distributor, or purveyor to be non-toxic and harmless to humans when used in accordance with the formulation and concentration as specified by the manufacturer,	6109.04	State REQUIRED				
3745-83-01	(D)	SHALL	, and SHALL be certified as meeting the "American National Standards Institute/National Sanitation Foundation (ANSI/NSF)" standards in paragraphs (D)(1) to (D)(3) of this rule.	6109.04	State REQUIRED				
3745-83-01	(D)	SHALL	Certification SHALL be from an "ANSI" accredited product certification organization.	6109.04	State REQUIRED				
3745-83-01	(D)(1)	SHALL	All chemicals SHALL be certified as meeting the specification of "ANSI/NSF Standard 60 Drinking Water Treatment Chemicals - Health Effects (2009)."	6109.04	State REQUIRED				

3745-83-01	(D)(2)	SHALL	All components installed by a public water system SHALL be certified as meeting the specifications of "ANSI/NSF Standard 61 Drinking Water System Components - Health Effects (2010)."	6109.04	State REQUIRED				
3745-83-01	(D)(2)	MUST	If certification to "ANSI/NSF Standard 61" is not available for a component, an alternate component with "ANSI/NSF Standard 61" certification MUST be used.	6109.04	State REQUIRED				
3745-83-01	(D)(3)	REQUIRED	Replacement of an existing component that is not certified to "ANSI/NSF Standard 61 Drinking Water System Components - Health Effects (2010)" may be REQUIRED if the director determines the component may pose a risk to human health, safety or the environment.	6109.04	State REQUIRED				
3745-83-01	(E)	SHALL	Minimum pressure. Community water systems SHALL maintain a minimum pressure of twenty pounds per square inch gauge at ground level at all points in the distribution system under all conditions of flow other than conditions caused by line breaks, extreme fire flows, or other extraordinary circumstances.	6109.04	State REQUIRED				
3745-83-01	(F)(1)(a)(i)	SHALL	A public water system that provides precipitative softening as defined in rule 3745-7-01 of the Administrative Code or membrane technology to reduce hardness SHALL monitor for total alkalinity daily at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(1)(a)(ii)	SHALL	A public water system that adjusts the alkalinity of the water for optimization of corrosion control pursuant to the lead and copper REQUIREments in rules 3745-81-82 and 3745-81-87 of the Administrative Code SHALL monitor for total alkalinity at least once every two weeks at regular intervals at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(1)(a)(ii) Comment	SHALL	[Comment: In addition to the monitoring REQUIREments above, public water systems exceeding the lead and copper action level that adjust the alkalinity of the water for the purpose of providing optimal corrosion control treatment pursuant to rules 3745-81-82 and 3745-81-87 of the Administrative Code SHALL also monitor in accordance with the REQUIREments of those rules.]	6109.04	State REQUIRED				
3745-83-01	(F)(1)(b)	SHALL	Phenolphthalein (or phenol) alkalinity. A public water system that provides precipitative softening as defined in rule 3745-7-01 of the Administrative Code SHALL monitor for phenolphthalein alkalinity daily at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(1)(c)	SHALL	Stability. A public water system that provides precipitative softening as defined in rule 3745-7-01 of the Administrative Code or membrane technology to reduce hardness SHALL monitor for stability at least weekly at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(2)(a)	SHALL	A public water system that provides water treated with chlorine SHALL monitor for free or combined chlorine at least once every day that water is available to the public at each entry point to the distribution system and a representative point or points in the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(2)(b)	REQUIRED	A public water system that uses chlorine solely for the oxidation of iron, manganese or hydrogen sulfide and is not REQUIRED to maintain a residual in the distribution system does not have to perform the monitoring in paragraph (F)(2)(a) of this rule.	6109.04	State REQUIRED				
3745-83-01	(F)(2)(b) Comment	SHALL	[Comment: In addition to the REQUIREments in this paragraph, a public water system that uses a surface source, in whole or in part, SHALL also conduct disinfection monitoring in accordance with rule 3745-81-74 of the Administrative Code.]	6109.04	State REQUIRED				
3745-83-01	(F)(2)(b) Comment	SHALL	A public water system that uses a ground water source and provides 4-log inactivation of viruses SHALL also conduct disinfection monitoring in accordance with rule 3745-81-43 of the Administrative Code.]	6109.04	State REQUIRED				
3745-83-01	(F)(3)	SHALL	Copper. A public water system that intends to apply a copper compound to the water supply source SHALL notify the director of their intent to apply the compound, and monitor for copper at least weekly, at each entry point to the distribution system for at least one month after the compound has been applied.	6109.04	State REQUIRED				
3745-83-01	(F)(4)(a)	SHALL	A public water system that adds fluoride to the water supply SHALL monitor for fluoride in accordance with the following:	6109.04	State REQUIRED				
3745-83-01	(F)(4)(b)	SHALL	Samples SHALL be analyzed as soon as possible, but in no case later than forty-eight hours after the time of collection.	6109.04	State REQUIRED				
3745-83-01	(F)(5)	SHALL	A community public water system that provides treatment to reduce iron SHALL monitor for iron at least at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(5)(a)	SHALL	Community systems serving up to and including two hundred fifty persons SHALL monitor either of the following:	6109.04	State REQUIRED				

3745-83-01	(F)(5)(b)	SHALL	Community systems serving greater than two hundred fifty persons SHALL monitor either of the following:	6109.04	State REQUIRED				
3745-83-01	(F)(5)(c)	SHALL	An iron test kit SHALL have a minimum detection level of 0.2 milligrams per liter.	6109.04	State REQUIRED				
3745-83-01	(F)(5)(c)	SHALL	Furthermore, the deviation of the split sample SHALL not be greater than 0.2 milligrams per liter.	6109.04	State REQUIRED				
3745-83-01	(F)(5)(c)	SHALL	If the deviation is greater, then the public water system SHALL cease monitoring with the test kit and substitute with weekly monitoring at a state certified laboratory.	6109.04	State REQUIRED				
3745-83-01	(F)(6)	SHALL	A community public water system that provides treatment to reduce manganese SHALL monitor for manganese at least at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(6)(a)	SHALL	Community systems serving up to and including two hundred and fifty persons SHALL monitor either of the following:	6109.04	State REQUIRED				
3745-83-01	(F)(6)(b)	SHALL	Community systems serving greater than two hundred fifty persons SHALL monitor either of the following:	6109.04	State REQUIRED				
3745-83-01	(F)(6)(c)	SHALL	A manganese test kit SHALL have a minimum detection level of 0.02 milligrams per liter.	6109.04	State REQUIRED				
3745-83-01	(F)(6)(c)	SHALL	Furthermore, the deviation of the split sample SHALL be no greater than 0.04 milligrams per liter.	6109.04	State REQUIRED				
3745-83-01	(F)(6)(c)	SHALL	If it is greater, then the public water system SHALL cease monitoring with the test kit and substitute with weekly monitoring at a state certified laboratory.	6109.04	State REQUIRED				
3745-83-01	(F)(7)(a)	SHALL	A public water system that adds orthophosphate to the water for the purpose of providing corrosion control treatment for purposes other than compliance with the lead and copper rules SHALL monitor at least monthly at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(7)(b)	SHALL	A public water system that adds orthophosphate to the water supply for optimization of corrosion control pursuant to the lead and copper REQUIREments of rules 3745-81-82 and 3745-81-87 of the Administrative Code SHALL monitor for orthophosphate at least once every two weeks at regular intervals at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(7)(b) Comment	SHALL	[Comment: In addition to the monitoring REQUIREments above, public water systems exceeding the lead and copper action level that add orthophosphate to the water for the purpose of providing optimal corrosion control treatment pursuant to rules 3745-81-82 and 3745-81-87 of the Administrative Code SHALL also monitor in accordance with the REQUIREments of those rules.]	6109.04	State REQUIRED				
3745-83-01	(F)(8)(a)	SHALL	A public water system that adjusts the pH of the water supply for stabilization SHALL monitor for pH at least once every day that water is available to the public at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(8)(b)	SHALL	A public water system that employs precipitative softening as defined in rule 3745-7-01 of the Administrative Code or membrane technology to reduce hardness SHALL monitor for pH at least once every day that water is available to the public at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(8)(c)	SHALL	A public water system that uses a surface water source, in whole or in part, SHALL also conduct pH monitoring in accordance with rule 3745-81-74 of the Administrative Code.	6109.04	State REQUIRED				
3745-83-01	(F)(8)(d)	SHALL	A public water system that adjusts the pH of the water for optimization of corrosion control pursuant to the lead and copper REQUIREments of rules 3745-81-82 and 3745-81-87 of the Administrative Code SHALL monitor for pH at least once every two weeks at regular intervals at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(8)(d) Comment	SHALL	[Comment: In addition to the monitoring REQUIREments above, public water systems exceeding the lead and copper action level that adjust the pH of the water for the purposes of providing optimal corrosion control treatment pursuant to rules 3745-81-82 and 3745-81-87 of the Administrative Code SHALL also monitor in accordance with the REQUIREments of those rules.]	6109.04	State REQUIRED				
3745-83-01	(F)(8)(d) Comment	SHALL	A public water system that uses a ground water source and provides 4-log inactivation of viruses SHALL also conduct disinfection monitoring in accordance with rule 3745-81-43 of the Administrative Code.	6109.04	State REQUIRED				
3745-83-01	(F)(9)(a)	SHALL	A community public water system serving up to and including two hundred fifty persons that provides ion exchange treatment to reduce hardness SHALL monitor for total hardness at least monthly at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(9)(b)	SHALL	A community public water system serving greater than two hundred fifty persons that provide ion exchange treatment to reduce hardness SHALL monitor for total hardness at least weekly at each entry point to the distribution system.	6109.04	State REQUIRED				

3745-83-01	(F)(9)(c)	SHALL	A public water system that provides precipitative softening treatment as defined in rule 3745-7-01 of the Administrative Code or that provides membrane technology to reduce hardness SHALL monitor for total hardness at least daily at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(F)(10)	SHALL	Total phosphorus. A public water system that adds phosphate to the water supply for purposes other than corrosion control, SHALL monitor for total phosphorus at least monthly at each entry point to the distribution system.	6109.04	State REQUIRED				
3745-83-01	(G)	REQUIRE	The director may REQUIRE additional monitoring as needed to assess operational performance than is otherwise specified in this rule,	6109.04	State REQUIRED				
3745-83-01	(G)	REQUIRED	including but not limited to operational monitoring REQUIRED to assess the effectiveness of treatment for contaminants regulated in Chapter 3745-81 of the Administrative Code.		State REQUIRED				
3745-83-01	(G)	SHALL, REQUIRED	The director SHALL notify the public water system of additional monitoring REQUIRED under this paragraph in writing or via plan approval issued in accordance with Chapter 3745-91 of the Administrative Code.	6109.04	State REQUIRED				X
3745-83-01	(H)(1)	SHALL, SHALL	The owner and operator SHALL ensure that all facilities and equipment necessary for the treatment and distribution of water SHALL be maintained, at a minimum so as to function as intended.	6109.04	State REQUIRED				
3745-83-01	(H)(2)	SHALL	In the event that the treatment facilities or equipment no longer function as intended, corrective action (which may include additional maintenance or modifications of the public water system) SHALL be taken by the owner.	6109.04	State REQUIRED				
3745-83-01	(H)(3)	SHALL	The owner and operator SHALL document the completion of the above referenced maintenance in accordance with Chapter 3745-7 of the Administrative Code.	6109.04	State REQUIRED				
3745-83-01	(I)(1)	REQUIRED, SHALL	In addition to any other reporting REQUIREment of Chapter 3745-81 of the Administrative Code, the owner or operator of a public water system REQUIRED to monitor under paragraphs (F) and (G) of this rule SHALL prepare and submit an operation report for each month of operation on forms acceptable to the director and in accordance with instructions provided by the director.	6109.04	State REQUIRED				
3745-83-01	(I)(1)	REQUIRE	The director may REQUIRE that the report include the following:	6109.04	State REQUIRED				
3745-83-01	(I)(2)	SHALL	The operation report SHALL be signed by the operator of record designated in accordance with rule 3745-7-02 of the Administrative Code .	6109.04	State REQUIRED				
3745-83-01	(I)(2)	REQUIRED, SHALL	If an operator of record is not REQUIRED by rule 3745-7-02 of the Administrative Code, the operation report SHALL be signed by an individual designated by the public water system owner.	6109.04	State REQUIRED				
3745-83-01	(I)(3)	SHALL	The operation report SHALL be submitted electronically via a method acceptable to the director no later than the tenth of the month following the month for which the report was prepared.	6109.04	State REQUIRED				
3745-83-01	(I)(4)	SHALL	The owner or operator SHALL report to the appropriate Ohio environmental protection agency district office as soon as possible, but within twenty-four hours, the discovery of any serious plant or distribution system breakdown or condition causing or likely to cause any of the following:	6109.04	State REQUIRED				
3745-83-01	(I)(5)	SHALL	Records of operation reports for each month of operation SHALL be kept for not less than ten years	6109.04	State REQUIRED				
3745-83-01	(I)(5)	SHALL	Records of operation reports for each month of operation SHALL be kept for not less than ten years, except for lead and copper data which SHALL be kept for not less than twelve years.	6109.04	State REQUIRED				
3475-83-02	(A)	SHALL	For the purpose of this rule, the following terms SHALL be defined as follows:	6109.04	State REQUIRED				
3475-83-02	(A)(9)	REQUIRES	"Repair" means any incident that REQUIRES the installation of pipe which does not exceed one section of pipe or twenty feet when dealing with fusible pipe material.	6109.04	State REQUIRED				
3475-83-02	(A)(10)	REQUIRES	"Replacement" means any incident that REQUIRES installation of pipe which exceeds one section of pipe or twenty feet when dealing with fusible pipe material.	6109.04	State REQUIRED				
3475-83-02	(B)	SHALL	In the event a public water system is unable to maintain a minimum pressure of twenty psig at ground level at all points in the distribution system the incident SHALL be deemed a disruption of service.	6109.04	State REQUIRED				
3475-83-02	(B)	SHALL	Non-transient noncommunity systems with a population less than one thousand people and all transient non-community systems SHALL immediately provide bottled water or an equivalent remedy as determined by the director or authorized representative until such time as pressure is returned and E. coli samples are negative	6109.04	State REQUIRED				X

3475-83-02	(B)	SHALL	Nontransient non-community systems serving a population of at least one thousand people and all community water systems SHALL comply with the following:	6109.04	State REQUIRED				
3475-83-02	(B)(1)	SHALL	During a water line repair or other incident, pressure upstream and downstream of the area SHALL be monitored and recorded to determine if a disruption of service has occurred and the extent of the affected area.	6109.04	State REQUIRED				
3475-83-02	(B)(1)	SHALL	Public water systems that use a hydraulic model for a particular event SHALL ensure personnel knowledgeable in running the model are available during all times of the particular event to ensure timely use of the models	6109.04	State REQUIRED				
3475-83-02	(B)(1)	SHALL	In the event a water system chooses not to monitor pressure in accordance with this rule, the system SHALL treat the event as a Type 3 event and follow the response REQUIREments in paragraph (B)(4) of this rule.	6109.04	State REQUIRED				
3475-83-02	(B)(2)	REQUIRED	Type 1 event response. During this type of event, a boil advisory, sampling for total coliform and notification to the Ohio EPA are not REQUIRED if the following criteria are met:	6109.04	State REQUIRED				
3475-83-02	(B)(2)(f)	SHALL	The public water system SHALL document activities and events during the repair on a form approved by the director to demonstrate the public water system followed the Type 1 event response as established in this rule.	6109.04	State REQUIRED				X
3475-83-02	(B)(2)(g)	SHALL	If the public water system does not complete the Type 1 event response in accordance with this rule, the incident is elevated to a Type 2 event and the public water system SHALL comply with the REQUIREments of paragraph (B)(3) of this rule.	6109.04	State REQUIRED				
3475-83-02	(B)(3)	REQUIRED	Type 2 event response. During this type of event, a boil advisory, sampling for total coliform and notification to the Ohio EPA are not REQUIRED if the following criteria are met:	6109.04	State REQUIRED				
3475-83-02	(B)(3)(c)	SHALL	Critical users, as established in the contingency plan in accordance with rule 3745-85-01 of the Administrative Code, within the affected area SHALL be notified, if applicable, in accordance with the system's contingency plan as soon as possible, but within twenty-four hours.	6109.04	State REQUIRED				
3475-83-02	(B)(3)(c)	SHALL	If the public water system does not have a contingency plan, the system SHALL notify customers who have a critical need of water as soon as possible, but within twenty-four hours.	6109.04	State REQUIRED				
3475-83-02	(B)(3)(f)	SHALL	In affected areas that are known or are likely to contain lead service lines, public water systems SHALL follow the applicable notification REQUIREments of paragraph (B)(6) of this rule.	6109.04	State REQUIRED				
3475-83-02	(B)(3)(j)	SHALL	The public water system SHALL document activities and events on a form approved by the director during the repair to demonstrate that the public water system followed the Type 2 event response as established in this rule.	6109.04	State REQUIRED				X
3475-83-02	(B)(3)(k)	SHALL	If the public water system does not complete the Type 2 event response in accordance with this rule, the incident is elevated to a Type 3 event and the system SHALL comply with the REQUIREments of paragraph (B)(4) of this rule.	6109.04	State REQUIRED				
3475-83-02	(B)(4)	SHALL	Type 3 event response. A public water system SHALL comply with the following:	6109.04	State REQUIRED				
3475-83-02	(B)(4)(b)	SHALL	If the disruption affects greater than ten per cent of a public water system's customers or greater than one hundred service connections, whichever is least, the public water system SHALL notify the appropriate Ohio EPA district representative or the Ohio EPA's environmental response hotline in accordance with rule 3745-85-01 of the Administrative Code as soon as possible, but within twentyfour hours.	6109.04	State REQUIRED				
3475-83-02	(B)(4)(b)	SHALL	During this type of response, the public water system SHALL ensure that they speak with a person. The use of email or voicemail will not satisfy this notification REQUIREment.	6109.04	State REQUIRED				
3475-83-02	(B)(4)(e)	SHALL	In affected areas that are known or are likely to contain lead service lines, public water systems SHALL follow the applicable notification REQUIREments of paragraph (B)(6) of this rule.	6109.04	State REQUIRED				
3475-83-02	(B)(4)(h)	SHALL	After repairs are made, pressure has been restored to twenty psig or above and the chlorine residual is within acceptable limits, the public water system SHALL collect special purpose total coliform samples at locations representative of the affected area in accordance with table 1 of this rule.	6109.04	State REQUIRED				
3475-83-02	(B)(4)(h)(iii)	SHALL	If any special purpose sample is positive for E. coli, the event is to be considered an acute risk to human health and the boil advisory SHALL remain in effect until the public water system meets the REQUIREments for removing the boil advisory established in rule 3745-81-32 of the Administrative Code.	6109.04	State REQUIRED				
3475-83-02	(B)(4)(h)(iv)	SHALL	A public water system SHALL consult with Ohio EPA to withdraw a water use advisory.	6109.04	State REQUIRED				

3475-83-02	(B)(4)(i)	SHALL	The form SHALL be submitted to the district office in which the system is located within forty-eight hours or next business day, whichever is later, of the disruption of service being corrected.	6109.04	State REQUIRED				
3475-83-02	(B)(4)(j)	SHALL	If the Type 3 event is no longer localized to the area adjacent to the repair, the incident is elevated to a Type 4 event and the public water system SHALL comply with the REQUIREments of paragraph (B)(5) of this rule.	6109.04	State REQUIRED				
3475-83-02	(B)(5)	SHALL	Type 4 event response. A public water system SHALL comply with the following criteria during this type of event:	6109.04	State REQUIRED				
3475-83-02	(B)(5)(b)	SHALL	If the disruption affects greater than ten per cent of a public water system's customers or greater than one hundred service connections, whichever is least, the public water system SHALL notify the appropriate Ohio EPA district representative or the Ohio EPA's environmental response hotline in accordance with rule 3745-85-01 of the Administrative Code as soon as possible, but within twentyfour hours.	6109.04	State REQUIRED				
3475-83-02	(B)(5)(b)	SHALL	During this type of response, the public water system SHALL ensure that they speak with a person. The use of email or voicemail will not satisfy this notification REQUIREment.	6109.04	State REQUIRED				
3475-83-02	(B)(5)(e)	SHALL	In affected areas that are known or are likely to contain lead service lines, public water systems SHALL follow the applicable notification REQUIREments of paragraph (B)(6) of this rule.	6109.04	State REQUIRED				
3475-83-02	(B)(5)(h)	SHALL	After repairs are made, pressure has been restored to twenty psig or above, and the chlorine residual is within acceptable limits, the public water system SHALL collect special purpose total coliform samples at locations representative of the affected area, in accordance with table 1 of this rule	6109.04	State REQUIRED				
3475-83-02	(B)(5)(h)(iii)	SHALL	If any special purpose sample is positive for E. coli, the event is to be considered an acute risk to human health and the boil advisory SHALL remain in effect until the public water system meets the REQUIREments for removing the boil advisory established in rule 3745-81-32 of the Administrative Code.	6109.04	State REQUIRED				
3475-83-02	(B)(5)(h)(iv)	SHALL	A public water system SHALL consult with Ohio EPA to withdraw a water use advisory.	6109.04	State REQUIRED				
3475-83-02	(B)(5)(i)	SHALL	The form SHALL be submitted to the district office in which the system is located within forty-eight hours or next business day, whichever is later, of the disruption of service being corrected.	6109.04	State REQUIRED				
3475-83-02	(B)(5)(i) Table 1	REQUIRED	Minimum Number of Total Coliform Samples REQUIRED	6109.04	State REQUIRED				
3475-83-02	(B)(5)(i) Table 1 (*)	SHALL	After ten thousand service connections, an additional two samples SHALL be added for every one thousand service connections up to the maximum one hundred samples.	6109.04	State REQUIRED				
3475-83-02	(B)(6)	SHALL	In affected areas that are known or likely to contain lead service lines, that experience a disruption of service event, public water systems SHALL provide public notification as follows:	6109.04	State REQUIRED				
3475-83-02	(B)(6)(a)	SHALL	In areas where repairs are conducted in Type 2, 3 and 4 events, the public water system SHALL provide a notice acceptable to the director.	6109.04	State REQUIRED				X
3475-83-02	(B)(6)(b)	SHALL	In areas where replacement is conducted, the public water system SHALL comply with provisions contained in rule 3745-81-84 of the Administrative Code.	6109.04	State REQUIRED				

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-84-01	Intro	SHALL	Except as otherwise noted, the definitions in rule 3745-81-01 of the Administrative Code shall apply to this chapter.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-01	(A)	REQUIRED	"License to Operate" means the public water system license or license renewal REQUIRED by section 6109.21 of the Revised Code and in accordance with this chapter.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(A)	SHALL	Except as provided in section 6109.21 of the Revised Code, no person SHALL operate or maintain a public water system in the state of Ohio without a public water system license to operate issued by the director.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(B)	SHALL	Any person proposing to operate or maintain a new public water system SHALL submit a pre-application, an application and the appropriate fee, as set forth in rule 3745-84-05 of the Administrative Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(C)	SHALL	The pre-application for an initial public water system license to operate SHALL be on a form provided by the director, and the following information SHALL be provided or verified by the applicant within forty-five days of receipt of the form:	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(C)	SHALL	The pre-application for an initial public water system license to operate SHALL be on a form provided by the director, and the following information SHALL be provided or verified by the applicant within forty-five days of receipt of the form:	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(C)	REQUIRED	(1) Additional data which may be REQUIRED by the director.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(D)	SHALL	A completed application for an initial public water system license to operate along with the appropriate fee SHALL be submitted to the director not less than thirty days prior to operation of the public water system.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(E)	SHALL	Within thirty days of receipt of both a completed application for a public water system license to operate under this rule and the applicable fee, the director SHALL act on the application by doing one of the following: (1) Issuing the license to operate. (2) Issuing the license to operate subject to terms and conditions in accordance with rule 3745-84-06 of the Administrative Code. (3) Denying the license to operate in accordance with rule 3745-84-06 of the Administrative Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(F)	SHALL	Submission of a completed application and issuance of a license to operate SHALL allow the director or an authorized representative of Ohio EPA, upon the presentation of credentials and other documents as may be REQUIRED by law, to do the following: (1) Enter upon the premises where a regulated facility or activity is located or conducted or where records MUST be kept to comply with drinking water REQUIREments under Chapter 6109. of the Revised Code and the rules adopted thereunder. (2) Access and copy at reasonable times, any records that MUST be kept to comply with drinking water REQUIREments under Chapter 6109. of the Revised Code and the rules adopted thereunder.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(F)	REQUIRED	Submission of a completed application and issuance of a license to operate SHALL allow the director or an authorized representative of Ohio EPA, upon the presentation of credentials and other documents as may be REQUIRED by law, to do the following: (1) Enter upon the premises where a regulated facility or activity is located or conducted or where records MUST be kept to comply with drinking water REQUIREments under Chapter 6109. of the Revised Code and the rules adopted thereunder. (2) Access and copy at reasonable times, any records that MUST be kept to comply with drinking water REQUIREments under Chapter 6109. of the Revised Code and the rules adopted thereunder.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(F)	MUST	(1) Enter upon the premises where a regulated facility or activity is located or conducted or where records MUST be kept to comply with drinking water REQUIREments under Chapter 6109. of the Revised Code and the rules adopted thereunder.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-02	(F)	MUST	(2) Access and copy at reasonable times, any records that MUST be kept to comply with drinking water REQUIREments under Chapter 6109. of the Revised Code and the rules adopted thereunder.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(A)	SHALL	A public water system license to operate, issued pursuant to section 6109.21 of the Revised Code and in accordance with this chapter, SHALL expire on the thirtieth day of January in the year following of its issuance.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(B)	SHALL	A person holding a public water system license to operate issued by the director under section 6109.21 of the Revised Code, who is proposing to continue operating the public water system, SHALL submit a pre-application, an application and the appropriate fee, as set forth in rule 3745-84-05 of the Administrative Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(C)	SHALL	The pre-application for a public water system license to operate SHALL be on a form provided by the director, and the information REQUIRED in paragraph (C) of rule 3745-84-02 of the Administrative Code reflecting the current conditions of the public water system SHALL be provided or verified by the applicant within forty-five days of receipt of the form.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(C)	SHALL	The pre-application for a public water system license to operate SHALL be on a form provided by the director, and the information REQUIRED in paragraph (C) of rule 3745-84-02 of the Administrative Code reflecting the current conditions of the public water system SHALL be provided or verified by the applicant within forty-five days of receipt of the form.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(C)	REQUIRED	The pre-application for a public water system license to operate SHALL be on a form provided by the director, and the information REQUIRED in paragraph (C) of rule 3745-84-02 of the Administrative Code reflecting the current conditions of the public water system SHALL be provided or verified by the applicant within forty-five days of receipt of the form.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(D)	SHALL	A completed application for a public water system license to operate along with the appropriate fee SHALL be submitted to the director not less than thirty days prior to the expiration date of the license to operate.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(E)	SHALL	Except as otherwise noted in paragraph (F) of section 6109.21 of the Revised Code, within thirty days of receipt of a completed application for a public water system license to operate under this rule and the applicable fee, both submitted timely, the director SHALL act on the application by doing one of the following:	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(F)	SHALL not	The director SHALL not act on an application submitted by any public water system with a license to operate under a period of denial, suspension or revocation.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(G)	REQUIRED	Submission of a completed application and issuance of a license to operate SHALL allow the director or an authorized representative of Ohio EPA, upon the presentation of credentials and other documents as may be REQUIRED by law, to do the following:	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(G)	MUST	(1) Enter upon the premises where a regulated facility or activity is located or conducted or where records MUST be kept to comply with drinking water REQUIREments under Chapter 6109. of the Revised Code and the rules adopted thereunder.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-03	(G)	MUST	(2) Access and copy at reasonable times, any records that MUST be kept to comply with drinking water REQUIREments under Chapter 6109. of the Revised Code and the rules adopted thereunder.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-04	(B)	SHALL	A public water system SHALL return a revoked or suspended license to operate to the director by certified mail within seven days of the effective date of revocation or suspension.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-04	(C)	SHALL	A color-coded license to operate or sign SHALL be issued by the director representing the status of the license to operate, as follows:	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-04	(C)	SHALL	(1) A green license to operate SHALL be issued to a public water system licensed without conditions.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-04	(C)	SHALL	(2) A yellow license to operate SHALL be issued to a public water system licensed with conditions.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-04	(C)	SHALL	(3) A red sign SHALL be issued to a public water system not licensed due to denial, suspension or revocation of the license to operate.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-04	(D)	SHALL not	(D) The color-coded license to operate or red sign SHALL be prominently displayed by the public water system.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-04	(D)	SHALL	(1) Community public water systems SHALL display the license to operate or red sign at the office of the public water system and notify its customers of the status of its license to operate in the consumer confidence report (CCR) in accordance with Chapter 3745-96 of the Administrative Code. Additionally, community public water systems with a denied, suspended or revoked license to operate SHALL notify its customers of the status of its license to operate by issuing a tier 1 public notice in accordance with rule 3745-81-32 of the Administrative	3745.11, 6109.04, 6109.21	State REQUIRED				

3745-84-04	(D)	SHALL	(2) Noncommunity public water systems SHALL display the license to operate or red sign so as to be clearly visible to the general public and to any person entering the facility.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(A)	SHALL	Pursuant to section 3745.11 of the Revised Code, a person applying for a public water system license to operate or maintain a public water system under section 6109.21 of the Revised Code and this chapter SHALL pay the appropriate fee according to the schedule set forth in division (M) of section 3745.11 of the Revised Code at the time of submission of the application to the director.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(B)	REQUIRED	Failure to submit the application by the due date or failure to pay the appropriate fee REQUIRED by division (M) of section 3745.11 of the Revised Code at the time of submission of application for a public water system license to operate, as set forth in paragraph (D) of rules 3745-84-03 and 3745-84-02 of the Administrative Code, SHALL REQUIRE payment of an additional amount equal to ten per cent of the appropriate fee.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(B)	SHALL REQUIRE	Failure to submit the application by the due date or failure to pay the appropriate fee REQUIRED by division (M) of section 3745.11 of the Revised Code at the time of submission of application for a public water system license to operate, as set forth in paragraph (D) of rules 3745-84-03 and 3745-84-02 of the Administrative Code, SHALL REQUIRE payment of an additional amount equal to ten per cent of the appropriate fee.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(C)	REQUIRED	Failure to pay the appropriate fee REQUIRED by division (M) of section 3745.11 of the Revised Code SHALL render an application for a public water system license to operate incomplete. The director SHALL not act on an incomplete application for a public water system license to operate.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(C)	SHALL	Failure to pay the appropriate fee REQUIRED by division (M) of section 3745.11 of the Revised Code SHALL render an application for a public water system license to operate incomplete. The director SHALL not act on an incomplete application for a public water system license to operate.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(C)	SHALL not	Failure to pay the appropriate fee REQUIRED by division (M) of section 3745.11 of the Revised Code SHALL render an application for a public water system license to operate incomplete. The director SHALL not act on an incomplete application for a public water system license to operate.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(D)	REQUIRED	Payment of fees REQUIRED by division (M) of section 3745.11 of the Revised Code SHALL be made by tendering payment, in a form acceptable to the director, to the treasurer of the state of Ohio. The director SHALL transmit all fees collected under this rule to the treasurer of the state for deposit into the drinking water protection fund created in section 6109.30 of the Revised Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(D)	SHALL	Payment of fees REQUIRED by division (M) of section 3745.11 of the Revised Code SHALL be made by tendering payment, in a form acceptable to the director, to the treasurer of the state of Ohio. The director SHALL transmit all fees collected under this rule to the treasurer of the state for deposit into the drinking water protection fund created in section 6109.30 of the Revised Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(D)	SHALL	Payment of fees REQUIRED by division (M) of section 3745.11 of the Revised Code SHALL be made by tendering payment, in a form acceptable to the director, to the treasurer of the state of Ohio. The director SHALL transmit all fees collected under this rule to the treasurer of the state for deposit into the drinking water protection fund created in section 6109.30 of the Revised Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(E)	REQUIRED	For public water systems that are community water systems as defined in rule 3745-81-01 of the Administrative Code, the fees for a license to operate, REQUIRED under this chapter, SHALL be as set forth in division (M)(1) of section 3745.11 of the Revised Code. The public water system may determine its means for obtaining fees, including the assessment of additional user fees which may be assessed on a volumetric basis.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(E)	SHALL	For public water systems that are community water systems as defined in rule 3745-81-01 of the Administrative Code, the fees for a license to operate, REQUIRED under this chapter, SHALL be as set forth in division (M)(1) of section 3745.11 of the Revised Code. The public water system may determine its means for obtaining fees, including the assessment of additional user fees which may be assessed on a volumetric basis.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(F)	REQUIRED	For public water systems that are nontransient noncommunity water systems as defined in rule 3745-81-01 of the Administrative Code, the fees for a license to operate, REQUIRED by this chapter, SHALL be as set forth in division (M)(2) of section 3745.11 of the Revised Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(F)	SHALL	For public water systems that are nontransient noncommunity water systems as defined in rule 3745-81-01 of the Administrative Code, the fees for a license to operate, REQUIRED by this chapter, SHALL be as set forth in division (M)(2) of section 3745.11 of the Revised Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(G)	REQUIRED	For public water systems that are transient noncommunity water systems as defined in rule 3745-81-01 of the Administrative Code, the fees for a license to operate, REQUIRED by this chapter, SHALL be as set forth in division (M)(3) of section 3745.11 of the Revised Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(G)	SHALL	For public water systems that are transient noncommunity water systems as defined in rule 3745-81-01 of the Administrative Code, the fees for a license to operate, REQUIRED by this chapter, SHALL be as set forth in division (M)(3) of section 3745.11 of the Revised Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(H)	SHALL	A public water system designated as using a surface water source SHALL pay a fee of seven hundred ninety-two dollars or the amount calculated under division (M)(1) or (M)(2) of section 3745.11 of the Revised Code, whichever is greater.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(I)	REQUIRED	For a public water system to operate for any portion of a license year, the entire fee REQUIRED by division (M) of section 3745.11 of the Revised Code SHALL be paid, except as provided for new systems under division (M)(5) of section 3745.11 of the Revised Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-05	(I)	SHALL	For a public water system to operate for any portion of a license year, the entire fee REQUIRED by division (M) of section 3745.11 of the Revised Code SHALL be paid, except as provided for new systems under division (M)(5) of section 3745.11 of the Revised Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-06	(A)	SHALL	In accordance with divisions (F) and (G) of section 6109.21 of the Revised Code, the director may condition, deny , suspend or revoke a license to operate or maintain a public water system issued under this chapter, which may include any other license to operate a public water system issued to such person by the director, for violations of Chapter 6109. of the Revised Code and the administrative rules adopted thereunder . In conditioning, denying , suspending, or revoking a license to operate, the director SHALL act in accordance with the provisions of Chapters 119., 3745., and 6109. of the Revised Code.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-06	(A)	REQUIRE	(1) The director may condition a license to operate at any time to REQUIRE correction of violations of Chapter 6109. of the Revised Code and the administrative rules adopted thereunder.	3745.11, 6109.04, 6109.21	State REQUIRED				
3745-84-06	(B)	SHALL	Suspension of a license to operate SHALL be for a time period specified by the director, but no less than six months and no more than one year, depending on the severity of the violations or the amount of corrective action necessary to bring the system into compliance. Before the license to operate may be reinstated or renewed, the public water system SHALL submit a written certification indicating that the violations upon which the license to operate was suspended have been corrected and the terms and conditions of the suspension have been satisfied. If reinstatement is for a subsequent year, an application and appropriate fee SHALL be submitted in accordance with rule 3745-84-03 of the Administrative Code. Failure to correct the violations upon which the suspension was based will prohibit reinstatement of the license to operate. If the public water system fails to fulfill the REQUIREments of the suspension, the director may deny the license to operate application or may revoke the license to operate.	3745.11, 6109.04, 6109.21	State REQUIRED				

3745-84-06	(B)	SHALL	Suspension of a license to operate SHALL be for a time period specified by the director, but no less than six months and no more than one year, depending on the severity of the violations or the amount of corrective action necessary to bring the system into compliance. Before the license to operate may be reinstated or renewed, the public water system SHALL submit a written certification indicating that the violations upon which the license to operate was suspended have been corrected and the terms and conditions of the suspension have been satisfied. If reinstatement is for a subsequent year, an application and appropriate fee SHALL be submitted in accordance with rule 3745-84-03 of the Administrative Code. Failure to correct the violations upon which the suspension was based will prohibit reinstatement of the license to operate. If the public water system fails to fulfill the REQUIREments of the suspension, the director may deny the license to operate application or may revoke the license to operate.	3745.11, 6109.04, 6109.21	State REQUIRED			
3745-84-06	(B)	SHALL	Suspension of a license to operate SHALL be for a time period specified by the director, but no less than six months and no more than one year, depending on the severity of the violations or the amount of corrective action necessary to bring the system into compliance. Before the license to operate may be reinstated or renewed, the public water system SHALL submit a written certification indicating that the violations upon which the license to operate was suspended have been corrected and the terms and conditions of the suspension have been satisfied. If reinstatement is for a subsequent year, an application and appropriate fee SHALL be submitted in accordance with rule 3745-84-03 of the Administrative Code. Failure to correct the violations upon which the suspension was based will prohibit reinstatement of the license to operate. If the public water system fails to fulfill the REQUIREments of the suspension, the director may deny the license to operate application or may revoke the license to operate.	3745.11, 6109.04, 6109.21	State REQUIRED			
3745-84-06	(B)	prohibit	Suspension of a license to operate SHALL be for a time period specified by the director, but no less than six months and no more than one year, depending on the severity of the violations or the amount of corrective action necessary to bring the system into compliance. Before the license to operate may be reinstated or renewed, the public water system SHALL submit a written certification indicating that the violations upon which the license to operate was suspended have been corrected and the terms and conditions of the suspension have been satisfied. If reinstatement is for a subsequent year, an application and appropriate fee SHALL be submitted in accordance with rule 3745-84-03 of the Administrative Code. Failure to correct the violations upon which the suspension was based will prohibit reinstatement of the license to operate. If the public water system fails to fulfill the REQUIREments of the suspension, the director may deny the license to operate application or may revoke the license to operate.	3745.11, 6109.04, 6109.21	State REQUIRED			
3745-84-06	(C)	SHALL, SHALL	Revocation or denial of a license to operate SHALL be for a time period specified by the director, but no less than one year and no more than five years. A public water system which has had a license to operate revoked or denied may, after the period of revocation or denial has expired, submit an application for renewal of the license to operate and the appropriate fee in accordance with rule 3745-84-03 of the Administrative Code. The application for renewal SHALL include a written certification indicating that the violations upon which the license to operate was denied or revoked have been corrected and the terms and conditions of the denial or revocation have been satisfied.	3745.11, 6109.04, 6109.21	State REQUIRED			
3745-84-06	(F)	SHALL	No person SHALL receive a refund when the director acts on a license to operate under this rule.	3745.11, 6109.04, 6109.21	State REQUIRED			
3745-84-06	(G)	SHALL	No person SHALL operate a public water system with an expired, denied or revoked license to operate. A public water system with an expired, denied or revoked license to operate is prohibited from producing water for human consumption as defined in rule 3745-81-01 of the Administrative Code. A public water system with a suspended license to operate may only operate as authorized by the director.	3745.11, 6109.04, 6109.21	State REQUIRED			
3745-84-06	(G)	prohibited	No person SHALL operate a public water system with an expired, denied or revoked license to operate. A public water system with an expired, denied or revoked license to operate is prohibited from producing water for human consumption as defined in rule 3745-81-01 of the Administrative Code. A public water system with a suspended license to operate may only operate as authorized by the director.	3745.11, 6109.04, 6109.21	State REQUIRED			

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-85-01	(A)	SHALL	Except as otherwise noted, the definitions in rule 3745-81-01 of the Administrative Code SHALL apply to this chapter.	6109.04	State REQUIRED				
3745-85-01	(B)	SHALL	Each community water system and wholesale system SHALL prepare and maintain a written contingency plan.	6109.04	State REQUIRED				
3745-85-01	(B)	SHALL	When routine methods of delivery or treatment are compromised, the contingency plan SHALL provide for the protection of public health to the extent possible, through actions including but not limited to the notification of users, including the direct notification of critical users, the provision of alternate sources of water and the restoration of service.	6109.04	State REQUIRED				
3745-85-01	(C)(1)	SHALL	One copy of the contingency plan SHALL be kept at an accessible, secure location at the water treatment plant and be available to the operator of record or any designated staff.	6109.04	State REQUIRED				
3745-85-01	(C)(1)	SHALL	If there is no plant, the operator of record SHALL keep a copy of the plan in an accessible, secure location.	6109.04	State REQUIRED				
3745-85-01	(C)(1)	SHALL	This copy of the contingency plan SHALL be available onsite for twenty-four hour inspection by representatives of the director or emergency response personnel.	6109.04	State REQUIRED				
3745-85-01	(C)(2)	SHALL	One copy SHALL be kept in the public water system administrator's office, if applicable.	6109.04	State REQUIRED				
3745-85-01	(C)(3)	SHALL	Public water systems serving a population of more than two hundred fifty SHALL also supply a copy of the plan to the county emergency management agency (EMA).	6109.04	State REQUIRED				
3745-85-01	(C)(4)	SHALL	Within five days of a request by the Ohio EPA, a copy of the contingency plan SHALL be submitted in a format acceptable to Ohio EPA.	6109.04	State REQUIRED				
3745-85-01	(D)	SHALL	The contingency plan SHALL contain the following:	6109.04	State REQUIRED				
3745-85-01	(D)(2)	SHALL	A public water system SHALL ensure that they have funds available and immediately accessible for emergency use.	6109.04	State REQUIRED				
3745-85-01	(D)(3)	SHALL	The procedures SHALL address response and recovery activities such as sampling plans, treatment options and notifications to the public and government agencies.	6109.04	State REQUIRED				
3745-85-01	(D)(3)	SHALL	Public water systems SHALL ensure protocols are specified in their contingency plan to identify appropriate and accessible sampling points or to describe how a sampling point may be selected in a particular situation.	6109.04	State REQUIRED				
3745-85-01	(D)(3)	REQUIRE	The director may REQUIRE the public water system to include additional circumstances when the director determines that there is a threat to human health.	6109.04	State REQUIRED				X
3745-85-01	(D)(4)	SHALL	At a minimum, all public water systems SHALL address the following circumstances:	6109.04	State REQUIRED				
3745-85-01	(D)(5)	SHALL	Public water systems that use automation to monitor or control the systems SHALL include plans to manually operate the public water system in the event of loss of automation.	6109.04	State REQUIRED				
3745-85-01	(D)(5)	SHALL	A portion of these plans SHALL be exercised monthly in such a way as to not jeopardize the system, and to the extent possible, different sections of the plan should be exercised each month.	6109.04	State REQUIRED				
3745-85-01	(D)(5)	SHALL	Documentation of the exercises SHALL be included in the public water system's operation and maintenance records.	6109.04	State REQUIRED				
3745-85-01	(D)(6)	SHALL	Public water systems that have auxiliary power SHALL include plans to operate the public water system on auxiliary power in the event of a loss of power.	6109.04	State REQUIRED				
3745-85-01	(D)(6)	SHALL	A portion of these plans SHALL be exercised monthly in such a way as to not jeopardize the system, and to the extent possible, different sections of the plan should be exercised each month.	6109.04	State REQUIRED				
3745-85-01	(D)(6)	SHALL	Documentation of the exercises SHALL be included in the public water system's operation and maintenance records.	6109.04	State REQUIRED				
3745-85-01	(D)(7)	SHALL	The description SHALL include the following:	6109.04	State REQUIRED				
3745-85-01	(D)(7)(c)	SHALL	Sources selected SHALL independently or as a whole supply water of sufficient quality and quantity to support the drinking water needs (a minimum of one gallon per person per day) for all of the public water system's customers in the event of an emergency.	6109.04	State REQUIRED				
3745-85-01	(D)(9)	SHALL	This list SHALL include contact information that ensures a representative can be contacted at any time of the day.	6109.04	State REQUIRED				
3745-85-01	(D)(12)	SHALL	Public water systems SHALL identify the method and timing of notification of water users, Ohio EPA, local health departments and local EMAs for each circumstance identified in paragraphs (D)(3) and (D)(4) of this rule, as applicable	6109.04	State REQUIRED				
3745-85-01	(D)(12)	SHALL	The notification SHALL communicate that an emergency affecting the ability of the public water system to provide potable water exists.	6109.04	State REQUIRED				
3745-85-01	(D)(13)	SHALL	In the event that notifications are made in accordance with paragraph (D)(12) of this rule, the public water system SHALL maintain records documenting the time and method of notification.	6109.04	State REQUIRED				
3745-85-01	(E)(1)	SHALL	At least annually, public water systems SHALL exercise the responses to one or more of the circumstances identified in the plan	6109.04	State REQUIRED				

3745-85-01	(E)(1)	SHALL	Each circumstance identified by the plan SHALL be included in an exercise at least once every five years.	6109.04	State REQUIRED				
3745-85-01	(E)(2)	SHALL	Community public water systems SHALL consult with the county EMA regarding participation in a hazardous spill exercise.	6109.04	State REQUIRED				
3745-85-01	(E)(3)	SHALL	Documentation of exercise participation SHALL be maintained at the public water system and made available upon request.	6109.04	State REQUIRED				
3745-85-01	(E)(3)	SHALL	Documentation SHALL include information regarding the topic of the exercise, outcomes of the exercise and a discussion of items that went well and improvements that are needed.	6109.04	State REQUIRED				
3745-85-01	(F)(1)	SHALL	The contingency plan REQUIRED by this chapter of the Administrative Code SHALL be reviewed and updated as necessary, but at least annually.	6109.04	State REQUIRED				
3745-85-01	(F)(1)	REQUIRED	The contingency plan REQUIRED by this chapter of the Administrative Code SHALL be reviewed and updated as necessary, but at least annually.	6109.04	State REQUIRED				
3745-85-01	(F)(2)	SHALL	The contact information listed in paragraphs (D)(9), (D)(11) and (D)(15) of this rule SHALL be confirmed during the annual review of the contingency plan and updated when necessary	6109.04	State REQUIRED				
3745-85-01	(F)(3)	SHALL	Copies of the revised pages of the plan SHALL be promptly distributed to holders of the plan, as described in paragraph (C) of this rule.	6109.04	State REQUIRED				
3745-85-01	(F)(4)	SHALL	In the event the plan is deemed inadequate or incomplete by Ohio EPA, the public water system SHALL revise the plan in accordance with a schedule acceptable to the director.	6109.04	State REQUIRED				X
3745-85-01	(G)	SHALL	If a circumstance triggers the activation of the contingency plan, public water systems SHALL do the following:	6109.04	State REQUIRED				
3745-85-01	(I)	SHALL	Beginning with the first license to operate inventory form after the effective date of this rule and on an annual basis thereafter, each public water system SHALL supply, on a form approved by the director, emergency contact information for the public water system that will ensure a response from a public water system representative within thirty minutes.	6109.04	State REQUIRED				X
3745-85-01	(I)	SHALL	In the event that emergency contact information changes, the owner, operator and operator of record of the facility SHALL be individually and jointly responsible for notifying Ohio EPA of the changes within three days of the change.	6109.04	State REQUIRED				

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-86-01	A	SHALL	Except as otherwise noted, the definitions in rule 3745-81-01 of the Administrative Code SHALL apply to this chapter	6109.04'	State REQUIRED				
3745-86-01	B2	SHALL	Application for an emergency loan SHALL be made on a form provided by the director and SHALL contain all information the director deems necessary	6109.04'	State REQUIRED				
3745-86-01	B3	SHALL	All emergency loan applications SHALL be signed as follows.	6109.04'	State REQUIRED				
3745-86-01	B3a	SHALL	Corporations: loan applications SHALL be signed by a principal executive officer of at least the level of vice president.	6109.04'	State REQUIRED				
3745-86-01	B3b	SHALL	Partnerships: loan applications SHALL be signed by a general partner.	6109.04'	State REQUIRED				
3745-86-01	B3c	SHALL	Sole proprietorships: loan applications SHALL be signed by the proprietor	6109.04'	State REQUIRED				
3745-86-01	B3d	SHALL	Municipal, state, federal, or other public agencies: loan applications SHALL be signed by a principal executive or other ranking elected official	6109.04'	State REQUIRED				
3745-86-01	B4	SHALL	Signatures on emergency loan applications SHALL be notarized.	6109.04'	State REQUIRED				
3745-86-01	B5	SHALL	Incomplete emergency loan applications SHALL be returned and no further action SHALL be taken by the director.	6109.04'	State REQUIRED				X
3745-86-01	C1	SHALL	The director SHALL not loan more than twenty-five thousand dollars to the owner or operator of any single public water system from the fund	6109.04'	State REQUIRED				X
3745-86-01	C2	SHALL	The owner or operator of a public water system that receives an emergency loan from the fund SHALL repay that loan not later than twelve months after the receipt of the loan. Repayment SHALL be made by tendering a certified check in the amount of the loan drawn to the treasurer of the state of Ohio and submitted to the fiscal administrator, Ohio environmental protection agency.	6109.04'	State REQUIRED				
3745-86-01	C3	SHALL	The director SHALL not accept or consider any application for an emergency loan from the fund in any fiscal year in which two hundred thousand dollars in emergency loans have already been granted.	6109.04'	State REQUIRED				X
3745-86-01	C4	SHALL	The director's decisions regarding applications for emergency loans from the fund SHALL be final actions of the director.	6109.04'	State REQUIRED				X

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Author	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-87-01	A	SHALL	Except as otherwise noted, the definitions in rule 3745-81-01 of the Administrative Code SHALL apply to this chapter	6109.04'	State REQUIRED				
3745-87-02	N/A	SHALL	In order to ensure the long-term viability of public water systems, all public water systems SHALL demonstrate the managerial, technical, and financial capability of the public water system to comply with this chapter and rules adopted thereunder. Demonstration of capability SHALL be made through a written description of an asset management program that is acceptable to the director.	6109.04'	State REQUIRED				X
3745-87-02	A	SHALL	A public water system SHALL submit a written description of the public water system's asset management program description and supporting documents in accordance with the following:	6109.04'	State REQUIRED				
3745-87-02	A1	SHALL	New public water systems SHALL submit an outline describing what the asset management program will entail prior to operation. Thereafter, the public water system SHALL submit a written description and supporting documents upon request of the director in accordance with rule 3745-87-04 of the Administrative Code and in accordance with any schedule prescribed by the director	6109.04'	State REQUIRED				X
3745-87-02	A2	SHALL	For existing public water systems other than those receiving a loan, the director may REQUIRE public water systems to make the asset management program available for review based on enforcement proceedings, compliance history including violations and deficiencies identified as part of the sanitary survey or limited scope site visits, or on the results of a capability screening. A written description of the asset management program meeting all of the REQUIREments of this rule, SHALL be submitted in accordance with a schedule prescribed by the director.	6109.04'	State REQUIRED				X
3745-87-02	B	SHALL	Public water systems applying for a water supply revolving loan account (WSRLA) loan SHALL demonstrate an acceptable asset management program prior to receiving a WSRLA loan. The asset management program SHALL address any deficiencies noted in a capability screening.	6109.04'	State REQUIRED				
3745-87-02	C	SHALL	A written description of an asset management program and all supporting documents provided to the director by a public water system that demonstrates the asset management program SHALL be treated as an infrastructure and security record and be exempt from the public record provisions of sections 149.43 and 149.433 of the Revised Code and is not subject to mandatory release or disclosure under that chapter.	6109.04'	State REQUIRED				X
3745-87-03	A	SHALL	In order to demonstrate adequate managerial capacity, personnel commitments that are needed to provide for effective management, operation and financials of the public water system SHALL be proven with documentation. The asset management program SHALL include, but is not limited to, the following:	6109.04'	State REQUIRED				
3745-87-03	A4	SHALL	The owner or operator of the public water system SHALL include at least the following information in the asset management program:	6109.04'	State REQUIRED				
3745-87-03	A4b	SHALL	An operating plan defining the tasks to be performed in managing and operating the public water system, which SHALL consist of at least the following:	6109.04'	State REQUIRED				
3745-87-03	A4bi	SHALL	A high-level table of organization that identifies critical personnel including the operator, manager and supervisor responsible for operations, maintenance, treatment, and distribution. The table SHALL include clearly defined job classifications/titles and the individuals within those job classifications/titles. The table SHALL include differentiation between a property owner and business owner or lessee, if applicable.	6109.04'	State REQUIRED				
3745-87-03	A4c	SHALL	Demonstration of the owner's ability to address violations of applicable portions of the Revised Code and the Administrative Code. The demonstration SHALL include an explanation of how the water system will establish and maintain effective communications and relationships between the water systems management, its customers, professional service providers and any applicable regulatory agencies.	6109.04'	State REQUIRED				
3745-87-03	B	SHALL	In order to demonstrate adequate technical capacity, the asset management program SHALL include, but is not limited to, the following:	6109.04'	State REQUIRED				
3745-87-03	B5a	SHALL	Community public water systems SHALL prepare a written contingency plan meeting the REQUIREments of Chapter 3745-85 of the Administrative Code.	6109.04'	State REQUIRED				
3745-87-03	B5b	SHALL	Non-community public water systems SHALL prepare a written contingency plan in accordance with paragraphs (B), (C)(1), (C)(2), (C)(4), (D)(3), (D)(4)(c), (D)(4)(d), (D)(4)(e), (D)(4)(g), (D)(4)(h), (D)(4)(i), (D)(4)(j), (D)(12), (D)(13), (D)(14), (G)	6109.04'	State REQUIRED				
3745-87-03	B6a	SHALL	The public water system SHALL review the source water assessment annually and every five years SHALL evaluate the assessment to determine if revisions are necessary. If revisions are deemed necessary, the public water system SHALL request, in writing, a consultation with Ohio EPA on any suggested revisions. If Ohio EPA determines that re-assessment is necessary, the re-assessment SHALL be conducted by Ohio EPA or under guidance provided by Ohio EPA.	6109.04'	State REQUIRED				
3745-87-03	B6b	SHALL	Community and non-transient non-community public water systems that have an endorsed drinking water source protection plan, SHALL review the protection plan as stated in the plan and revise the plan as necessary	6109.04'	State REQUIRED				
3745-87-03	B6c	SHALL	Community and non-transient non-community public water systems that have an endorsed drinking water source protection plan that does not include a review schedule, SHALL review the protection plan every three years and revise it as necessary	6109.04'	State REQUIRED				
3745-87-03	B6d	SHALL	Public water systems that have a drinking water source protection checklist that has been submitted and accepted by Ohio EPA, the water system REQUIRE review and update the checklist every five years	6109.04'	State REQUIRED				
3745-87-03	B6e	SHALL	A revised drinking water source protection plan or checklist REQUIRE be submitted to Ohio EPA within sixty days of making the revisions.	6109.04'	State REQUIRED				

3745-87-03	B7a	SHALL	Written approved capacities of small public water systems using only ground water (such as factories, mobile home parks, office buildings, restaurants, condominiums, and the like) will be established in accordance with Ohio EPA's "Guidelines for Design of Small Public Water Systems." Written approved capacity projections for all other water systems REQUIRE meet the REQUIREments of Ohio EPA's "Planning and Design Criteria for Establishing Approved Capacity for: 1) Surface Water And Ground Water Supply Sources, 2) Drinking Water Treatment Plants (WTPs), and 3) Source/WTP Systems."	6109.04'	State REQUIRED				
3745-87-03	B8a	SHALL	A CIP REQUIRE include annual projections for a three to five-year planning period with detailed expenditures in each of those time frames.	6109.04'	State REQUIRED				
3745-87-03	C	SHALL	In order to demonstrate adequate financial capacity, water systems REQUIRE include a long-term funding strategy to support asset management plan implementation, including, but not limited to, the identification of sources and amounts of funds to finance the needed repair, rehabilitation, replacement or expansion of assets, including debt service.	6109.04'	State REQUIRED				
3745-87-03	C1	SHALL	New publicly owned public water systems REQUIRE include a five year pro forma statement of the next five years of operation, which includes the following:	6109.04'	State REQUIRED				
3745-87-03	C2	SHALL	Existing publicly-owned public water systems REQUIRE include all of the following:	6109.04'	State REQUIRED				
3745-87-03	C3	SHALL	New non-publicly owned public water systems REQUIRE include all of the following:	6109.04'	State REQUIRED				
3745-87-03	C4	SHALL	Existing non-publicly owned public water systems REQUIRE include all of the following:	6109.04'	State REQUIRED				
3745-87-04	A	SHALL	The written description of the asset management program and all supporting documents REQUIRE be available for inspections by representatives of the director.	6109.04'	State REQUIRED				
3745-87-04	B	SHALL	The director may request a public water system to submit a written description of the public water system's asset management program. The public water system REQUIRE submit the written description within thirty days of the request.	6109.04'	State REQUIRED				X
3745-87-05	A	SHALL	The water system REQUIRE annually review and update the asset management program.	6109.04'	State REQUIRED				
3745-87-05	B	SHALL	Metrics REQUIRE be kept onsite and available for review at the discretion of the director.	6109.04'	State REQUIRED				X
3745-87-05	B1f	SHALL	One additional customer service metric to be tracked REQUIRE be determined by the water system	6109.04'	State REQUIRED				
3745-87-02	A2	REQUIRE	For existing public water systems other than those receiving a loan, the director may REQUIRE public water systems to make the asset management program available for review based on enforcement proceedings, compliance history including violations and deficiencies identified as part of the sanitary survey or limited scope site visits, or on the results of a capability screening. A written description of the asset management program meeting all of the REQUIREments of this rule, REQUIRE be submitted in accordance with a schedule prescribed by the director.	6109.04'	State REQUIRED				X
3745-87-03	A4bii	REQUIRE	If cited with significant deficiencies, the director may REQUIRE fiscal and managerial training for water systems governing bodies and responsible management, and documentation of governing bodies and employees attending appropriate water system fiscal and management training.	6109.04'	State REQUIRED				X
3745-87-03	C2b	REQUIRE	The most recent five years of annual financial reports, as REQUIRED by section 117.38 of the Revised Code, or substantively equivalent documents which describe the performance of the owner and the water system.	6109.04'	State REQUIRED				
3745-87-03	C3bi	REQUIRE	Cost of REQUIRED level certified operator coverage.	6109.04'	State REQUIRED				
3745-87-04	C	REQUIRE	If a public water system's written description of the asset management program does not comply with the REQUIREments of this chapter, the director may REQUIRE the owner or operator to revise and resubmit the written description of the asset management program.	6109.04'	State REQUIRED				X
3745-87-05	B	REQUIRE	Metrics REQUIRE be reviewed and documented annually by the public water system, unless otherwise REQUIRED by the director. The following operational metrics will be REQUIRED for the specified system type:	6109.04'	State REQUIRED				X

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-88-01		SHALL	Except as otherwise provided in this rule, the definitions in rule 3745-81-01 of the Administrative Code SHALL apply to this chapter.	6109.04, 6109.22	State REQUIRED				
3745-88-01	D	SHALL	"Disadvantaged assistance" means a loan to a disadvantaged community from the water supply revolving loan account with a term greater than twenty years and not to exceed thirty years or the expected design life of the project, whichever is less. The terms and conditions of all disadvantaged assistance SHALL be determined by the director.	6109.04, 6109.22	State REQUIRED				X
3745-88-02	B1a	SHALL	Economic affordability. To be eligible for designation, applicants SHALL serve communities or populations with costs per user for water and sewer services that are greater than the statewide values.	6109.04, 6109.22	State REQUIRED				
3745-88-02	B1b	SHALL	Health related issues. To be eligible for designation, an applicant SHALL demonstrate the presence of indicators of serious public health risks. Applicants with more serious public health risks are more likely to be designated than those with less serious health risks.	6109.04, 6109.22	State REQUIRED				
3745-88-02	C1	SHALL	Applicants designated as disadvantaged communities SHALL submit an application for loan assistance on the form REQUIRED by the director in order to be considered for disadvantaged assistance from the water supply revolving loan account in accordance with section 6109.22 of the Revised Code.	6109.04, 6109.22	State REQUIRED				X
3745-88-02	C3	SHALL	No more than thirty per cent of each capitalization grant may be made available to provide subsidies to disadvantaged communities. Each amount identified for disadvantaged assistance and subsidies SHALL be available to be obligated for qualifying projects within the time period allowed for in the applicable capitalization grant.	6109.04, 6109.22	State REQUIRED				
3745-88-02	C4	SHALL	Designation as a disadvantaged community SHALL be made on an annual basis, for the program year for which the applicant is seeking disadvantaged assistance or subsidy. Applicants may reapply and may be designated by the director as a disadvantaged community in accordance with this chapter annually.	6109.04, 6109.22	State REQUIRED				X
3745-88-02	D1	SHALL	The amount, form, and duration of each award of disadvantaged assistance or subsidy to a disadvantaged community SHALL be based on the director's determination of the necessity for the disadvantaged assistance or subsidy in relation to the ability of the eligible disadvantaged community to comply with rule 3745-87-02 of the Administrative Code, comply with Chapter 6109. of the Revised Code, and the availability of funding for this purpose.	6109.04, 6109.22	State REQUIRED				X
3745-88-02	A1	MUST	REQUIREments. To be eligible for disadvantaged community loan assistance for a given program year, an applicant MUST:	6109.04, 6109.22	State REQUIRED				
3745-88-02	C1	REQUIRE	Applicants designated as disadvantaged communities SHALL submit an application for loan assistance on the form REQUIRED by the director in order to be considered for disadvantaged assistance from the water supply revolving loan account in accordance with section 6109.22 of the Revised Code.	6109.04, 6109.22	State REQUIRED				X

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-89-01	intro	SHALL	Except as follows, the definitions of "director," "gross alpha particle activity," "gross beta particle activity," "total trihalomethanes," and all other terms defined in rules 3745-81-01 and 3745-90-01 of the Administrative Code SHALL apply to this chapter.	6109.03, 6109.04	state REQUIRED		X		
3745-89-01	(O)(1)	REQUIRED	Operational certification" means certification granted by the director for an analyst to perform one or more of the plant control tests for alkalinity, alkalinity stability, chloride, chlorine, chlorite, chlorine dioxide, fluoride, hardness, pH, or turbidity, including daily calibration and standardization, but neither including the preparation of standards or reagents nor the REQUIRED monthly or quarterly calibration and standardization.	6109.03, 6109.04	state REQUIRED		X		
3745-89-02	Intro	REQUIRED	For the purpose of determining compliance with Chapters 3745-81, 3745-82 and 3745-90, and rules 3745-91-06 and 3745-9-09 of the Administrative Code, and as specified by paragraph (B) of rule 3745-83-01 of the Administrative Code, including plant control tests but excluding water quality parameter determinations, or for other analyses REQUIRED by the director, only those analyses may be acceptable to the director that are performed in one of the following:	6109.03, 6109.04	state REQUIRED		X		
3745-89-02	(D)	REQUIRED	A laboratory certified by the United States environmental protection agency, the national environmental laboratory accreditation program (NELAP), or by another state to perform REQUIRED analyses for drinking water contaminants, but only if any of the conditions in paragraphs (D)(1) to (D)(4) of this rule apply.	6109.03, 6109.04, 6109.12	state REQUIRED		X		
3745-89-02	(D)	SHALL	Out of state laboratories SHALL meet the analytical and reporting REQUIREments of this chapter in order for those analyses to be acceptable to the director.	6109.03, 6109.04, 6109.12	state REQUIRED		X		
3745-89-03			General REQUIREments. Laboratories applying for certification to perform analyses to determine compliance with Chapters 3745-81, 3745-82 and 3745-90, and rules 3745-91-06 and 3745-9-09, and as specified by paragraph (B) of rule 3745-83-01 of the Administrative Code, and with plant control tests for one or more public water systems, SHALL meet the following:	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)	SHALL	General REQUIREments. Laboratories applying for certification to perform analyses to determine compliance with Chapters 3745-81, 3745-82 and 3745-90, and rules 3745-91-06 and 3745-9-09, and as specified by paragraph (B) of rule 3745-83-01 of the Administrative Code, and with plant control tests for one or more public water systems, SHALL meet the following:	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(1)	SHALL	The laboratory SHALL submit, for approval by the director, a detailed laboratory plan which includes the following:	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(2)	SHALL	The laboratory SHALL submit a quality assurance plan acceptable to the director when certification is sought for drinking water analysis.	6109.03, 6109.04	federal REQUIRED	Manual for the Certification of Laboratories Analyzing Drinking Water" fifth edition, dated January 2005 (designated "EPA 815-R-05-004"), as supplemented in both June 2008 (designated "EPA 815-F-08-006") and November 2012 (designated "EPA 815-F-12-006")	X		
3745-89-03	(A)(2)	SHALL	Otherwise, an acceptable quality assurance plan SHALL be developed by the laboratory as described in the United States environmental protection agency's "Manual for the Certification of Laboratories Analyzing Drinking Water" fifth edition, dated January 2005 (designated "EPA 815-R-05-004"), as supplemented in both June 2008 (designated "EPA 815-F-08-006") and November 2012 (designated "EPA 815-F-12-006") by "the United States Environmental Protection Agency, Office of Ground Water and Drinking Water, Cincinnati, OH 45268."	6109.03, 6109.04	federal REQUIRED	Manual for the Certification of Laboratories Analyzing Drinking Water" fifth edition, dated January 2005 (designated "EPA 815-R-05-004"), as supplemented in both June 2008 (designated "EPA 815-F-08-006") and November 2012 (designated "EPA 815-F-12-006")	X		
3745-89-03	(A)(2)	SHALL	The quality assurance plan SHALL include at least the following parts:	6109.03, 6109.04	federal REQUIRED	Manual for the Certification of Laboratories Analyzing Drinking Water" fifth edition, dated January 2005 (designated "EPA 815-R-05-004"), as supplemented in both June 2008 (designated "EPA 815-F-08-006") and November 2012 (designated "EPA 815-F-12-006")	X		
3745-89-03	(A)(2)(c)(ii)	REQUIRED	Directions for sample preservation, dechlorination, etc. as REQUIRED by the reference method and the documentation used by the laboratory to verify that proper sample treatment is done.	6109.03, 6109.04	federal REQUIRED	Manual for the Certification of Laboratories Analyzing Drinking Water" fifth edition, dated January 2005 (designated "EPA 815-R-05-004"), as supplemented in both June 2008 (designated "EPA 815-F-08-006") and November 2012 (designated "EPA 815-F-12-006")	X		

3745-89-03	(A)(2)(d)	REQUIRED	Routine practices to maintain the precision and accuracy of data as specified by the director or REQUIRED by each method of analysis.	6109.03, 6109.04	federal REQUIRED	Manual for the Certification of Laboratories Analyzing Drinking Water" fifth edition, dated January 2005 (designated "EPA 815-R-05-004"), as supplemented in both June 2008 (designated "EPA 815-F-08-006") and November 2012 (designated "EPA 815-F-12-006")	X		
3745-89-03	(A)(3)	SHALL	The laboratory SHALL submit to the director an application for certification for drinking water analyses REQUIRED of public water systems, on a form provided by the director.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(3)	REQUIRED	The laboratory SHALL submit to the director an application for certification for drinking water analyses REQUIRED of public water systems, on a form provided by the director.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(3)	SHALL	The application SHALL include the following parts:	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(3)(b)	SHALL	This list SHALL designate which analytical methods in rule 3745-81-27 or 3745-90-04 of the Administrative Code SHALL be used for each analysis and SHALL include the name of each individual who SHALL perform each analysis.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(3)(b)	SHALL	This list SHALL designate which analytical methods in rule 3745-81-27 or 3745-90-04 of the Administrative Code SHALL be used for each analysis and SHALL include the name of each individual who SHALL perform each analysis.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(3)(b)	SHALL	This list SHALL designate which analytical methods in rule 3745-81-27 or 3745-90-04 of the Administrative Code SHALL be used for each analysis and SHALL include the name of each individual who SHALL perform each analysis.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(3)(b)	SHALL	This list SHALL designate which analytical methods in rule 3745-81-27 or 3745-90-04 of the Administrative Code SHALL be used for each analysis and SHALL include the name of each individual who SHALL perform each analysis.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(3)(e)	SHALL	Fees for these surveys SHALL be paid via a method acceptable to the director.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(4)	SHALL	The director SHALL return any application which is not filed in accordance with paragraph (A)(3) of this rule	6109.03, 6109.04	state REQUIRED		X		x
3745-89-03	(A)(5)	SHALL	Upon the laboratory's successful completion of the REQUIREments of paragraphs (A)(1), (A)(2) and (A)(3) of this rule, the laboratory SHALL demonstrate acceptable levels of performance during the initial and subsequent on-site surveys, including the following:	6109.03, 6109.04	state REQUIRED		X		
	(A)(5)(d)(iii)	REQUIRED	An acceptable quality assurance plan has been documented and implemented, as REQUIRED by paragraph (A)(2) of this rule.	6109.03, 6109.04	state REQUIRED		X		
	(A)(5)(d)(v)	REQUIRED	Acceptable method detection limit studies have been completed as REQUIRED by the director for each method and instrument in accordance with the procedures in appendix A to this rule.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(5)(f)	SHALL	Laboratories SHALL report at a minimum level that they can consistently quantify but SHALL not have a minimum reporting limit any higher than the level in appendix B to this rule	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(5)(f)	SHALL	Laboratories SHALL report at a minimum level that they can consistently quantify but SHALL not have a minimum reporting limit any higher than the level in appendix B to this rule	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(5)(f)	SHALL	Unless stated in this rule, the detection limits listed and defined in Chapter 3745-81 of the Administrative Code SHALL also be used as reporting limits.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(6)	SHALL	The survey report SHALL be issued to the applicant by the Ohio environmental protection agency within forty-five days of any on-site survey, SHALL indicate the acceptability of the applicant's performance during the survey, and SHALL state deviations that are REQUIRED to be corrected prior to certification of the laboratory	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(6)	SHALL	The survey report SHALL be issued to the applicant by the Ohio environmental protection agency within forty-five days of any on-site survey, SHALL indicate the acceptability of the applicant's performance during the survey, and SHALL state deviations that are REQUIRED to be corrected prior to certification of the laboratory	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(6)	SHALL	The survey report SHALL be issued to the applicant by the Ohio environmental protection agency within forty-five days of any on-site survey, SHALL indicate the acceptability of the applicant's performance during the survey, and SHALL state deviations that are REQUIRED to be corrected prior to certification of the laboratory	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(A)(6)	REQUIRED	The survey report SHALL be issued to the applicant by the Ohio environmental protection agency within forty-five days of any on-site survey, SHALL indicate the acceptability of the applicant's performance during the survey, and SHALL state deviations that are REQUIRED to be corrected prior to certification of the laboratory	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)	SHALL	Each laboratory applying for certification to perform particular drinking water analyses to determine compliance with Chapters 3745-81 and 3745-82, rules 3745-91-06 and 3745-9-09, and as specified by paragraph (B) of rule 3745-83-01 of the Administrative Code, as well as plant control tests SHALL, in addition to the REQUIREments of paragraph (A) of this rule, include with the application the appropriate REQUIRED reports as follows:	6109.03, 6109.04	state REQUIRED		X		

3745-89-03	(B)	REQUIRED	Each laboratory applying for certification to perform particular drinking water analyses to determine compliance with Chapters 3745-81 and 3745-82, rules 3745-91-06 and 3745-9-09, and as specified by paragraph (B) of rule 3745-83-01 of the Administrative Code, as well as plant control tests SHALL, in addition to the REQUIREments of paragraph (A) of this rule, include with the application the appropriate REQUIRED reports as follows:	6109.03, 6109.04	state REQUIRED				X
3745-89-03	(B)(1)	SHALL	Inorganic chemicals. Applicants for laboratory certification to perform analyses for inorganic chemicals to determine compliance with Chapter 3745-81 of the Administrative Code SHALL report antimony, arsenic, asbestos, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, thallium, bromate, chlorite, cyanide, fluoride, nitrate, nitrate-nitrite, and nitrite in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results.	6109.03, 6109.04	state REQUIRED				X
3745-89-03	(B)(2)	SHALL	Total trihalomethanes. Applicants for laboratory certification to perform analyses for total trihalomethanes to determine compliance with rules 3745-81-12 and 3745-81-24 of the Administrative Code SHALL report bromodichloromethane, bromoform, chloroform and dibromochloromethane analysis in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results.	6109.03, 6109.04	state REQUIRED				X
3745-89-03	(B)(2)	REQUIREs	Total trihalomethanes analysis REQUIREs reporting all of the compounds established in the definition of total rihalomethanes in rule 3745-81-01 of the Administrative Code.	6109.03, 6109.04	state REQUIRED				X
3745-89-03	(B)(3)	SHALL	Applicants for laboratory certification to perform analyses for volatile organic chemicals to determine compliance with rules 3745-81-12 and 3745-81-24 of the Administrative Code SHALL report analyses for volatile organic chemicals with maximum contaminant levels (except vinyl chloride) in accordance with paragraph (A)(3)(d) of this rule, with not more than twenty per cent unacceptable results, and SHALL achieve a method detection limit of 0.0005 milligrams per liter for each of these volatile organic chemicals according to the procedures in appendix A to this rule.	6109.03, 6109.04	state REQUIRED				X
3745-89-03	(B)(3)	SHALL	Applicants for laboratory certification to perform analyses for volatile organic chemicals to determine compliance with rules 3745-81-12 and 3745-81-24 of the Administrative Code SHALL report analyses for volatile organic chemicals with maximum contaminant levels (except vinyl chloride) in accordance with paragraph (A)(3)(d) of this rule, with not more than twenty per cent unacceptable results, and SHALL achieve a method detection limit of 0.0005 milligrams per liter for each of these volatile organic chemicals according to the procedures in appendix A to this rule.	6109.03, 6109.04	state REQUIRED				X
3745-89-03	(B)(4)	SHALL	Applicants for laboratory certification to perform analyses for pesticides and other organic chemicals to determine compliance with rules 3745-81-12 and 3745-81-24 of the Administrative Code SHALL report analysis for pesticides and other organic chemicals in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results.	6109.03, 6109.04	state REQUIRED				X
3745-89-03	(B)(5)	SHALL	Applicants for laboratory certification to perform analyses for microbiological contaminants to determine compliance with rules 3745-81-14, 3745-81-21, and 3745-81-41 to 3745-81-45 of the Administrative Code SHALL report microbiological contaminants analyses in accordance with paragraph (A)(3)(d) of this rule with no more than one unacceptable total coliform result, no more than one unacceptable fecal coliform/E. coli result, and no false negative reported values.	6109.03, 6109.04	state REQUIRED				X
3745-89-03	(B)(6)	SHALL	Applicants for laboratory certification to perform analyses for gross alpha particle activity to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days after receipt, results of the most recent proficiency test for gross alpha particle activity analysis in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results.	6109.03, 6109.04	state REQUIRED				X
3745-89-03	(B)(7)	SHALL	Applicants for laboratory certification to perform analyses for radium-226 and radium-228 radioactivity to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days after receipt, results of the most recent proficiency test for radium-226 and radium-228 analyses in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold laboratory certification under this rule to perform gross alpha particle activity analysis.	6109.03, 6109.04	state REQUIRED				X

3745-89-03	(B)(7)	SHALL	Applicants for laboratory certification to perform analyses for radium-226 and radium-228 radioactivity to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days after receipt, results of the most recent proficiency test for radium-226 and radium-228 analyses in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold laboratory certification under this rule to perform gross alpha particle activity analysis.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(8)	SHALL	Applicants for laboratory certification to perform analyses for gross beta particle activity to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days after receipt, results of the most recent proficiency test for gross beta particle activity analyses in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold laboratory certification under this rule to perform gross alpha particle activity analysis	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(8)	SHALL	Applicants for laboratory certification to perform analyses for gross beta particle activity to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days after receipt, results of the most recent proficiency test for gross beta particle activity analyses in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold laboratory certification under this rule to perform gross alpha particle activity analysis	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(9)	SHALL	Applicants for laboratory certification to perform analyses for strontium-89 and strontium-90 radioactivity to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days of receipt, results of the most recent proficiency test for strontium-89 and strontium-90 analyses in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold laboratory certification under this rule to perform gross beta particle activity analyses.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(9)	SHALL	Applicants for laboratory certification to perform analyses for strontium-89 and strontium-90 radioactivity to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days of receipt, results of the most recent proficiency test for strontium-89 and strontium-90 analyses in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold laboratory certification under this rule to perform gross beta particle activity analyses.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(10)	SHALL	Applicants for laboratory certification to perform analyses for iodine-131 radioactivity to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days of receipt, results of the most recent proficiency test for iodine-131 radioactivity analysis in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold laboratory certification under this rule to perform gross beta particle activity analysis.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(10)	SHALL	Applicants for laboratory certification to perform analyses for iodine-131 radioactivity to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days of receipt, results of the most recent proficiency test for iodine-131 radioactivity analysis in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold laboratory certification under this rule to perform gross beta particle activity analysis.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(11)	SHALL	Applicants for laboratory certification to perform analyses for tritium to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days of receipt, results of the most recent proficiency test for tritium analysis in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold laboratory certification under this rule for the performance of gross beta particle activity analysis	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(11)	SHALL	Applicants for laboratory certification to perform analyses for tritium to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days of receipt, results of the most recent proficiency test for tritium analysis in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold laboratory certification under this rule for the performance of gross beta particle activity analysis	6109.03, 6109.04	state REQUIRED		X		

3745-89-03	(B)(12)	SHALL	Applicants for laboratory certification to perform analyses for radioactivity from photon emitters (excluding iodine-131) to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days after receipt, results of the most recent proficiency test for radioactivity from photon emitters (excluding iodine-131) analysis in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold a laboratory certification under this rule to perform gross beta particle activity analysis.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(12)	SHALL	Applicants for laboratory certification to perform analyses for radioactivity from photon emitters (excluding iodine-131) to determine compliance with rules 3745-81-15 and 3745-81-26 of the Administrative Code SHALL report to the director, within thirty days after receipt, results of the most recent proficiency test for radioactivity from photon emitters (excluding iodine-131) analysis in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results, and SHALL hold a laboratory certification under this rule to perform gross beta particle activity analysis.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(13)	SHALL	Applicants for laboratory certification to perform analyses for haloacetic acids (five) to determine compliance with rules 3745-81-12 and 3745-81-24 of the Administrative Code SHALL report haloacetic acids (five) analysis in accordance with paragraph (A)(3)(d) of this rule with no more than one unacceptable result.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(14)	SHALL	Applicants for laboratory certification to perform analyses for bromate to determine compliance with paragraph (C) of rule 3745-81-11 and rule 3745-81-23 of the Administrative Code SHALL report bromate analysis in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(15)	SHALL	Applicants for laboratory certification to perform analyses for chlorite to determine compliance with paragraph (D) of rule 3745-81-11 and rule 3745-81-23 of the Administrative Code SHALL report chlorite analysis in accordance with paragraph (A)(3)(d) of this rule with no unacceptable results.	6109.03, 6109.04	state REQUIRED		X		
	(B)(16)	REQUIRED	Applicants for laboratory certification to perform plant control tests (except chlorine residual) REQUIRED to be reported by rule 3745-83-01 of the Administrative Code may designate individuals for operational certification	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(16)	SHALL	If any individual is designated for operational certification, the application SHALL also designate an individual responsible for preparation of standards and reagents and for the REQUIRED monthly and quarterly calibrations and standardizations.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	(B)(16)	REQUIRED	If any individual is designated for operational certification, the application SHALL also designate an individual responsible for preparation of standards and reagents and for the REQUIRED monthly and quarterly calibrations and standardizations.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix A - Scope and Application (1)	MUST	It is recognized that the experience of the analyst is important to this process. However, the analyst MUST include the above considerations in the initial estimate of the detection limit.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix A - Scope and Application (3)(b)(2)	MAY NOT	The variance of the analytical method changes as the analyte concentration increases from the MDL, hence the MDL determined under these circumstances MAY NOT truly reflect method variance at lower analyte concentrations.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix A - Scope and Application (4)(a)	REQUIRED	If a blank measurement is REQUIRED to calculate the measured level of analyte, obtain a separate blank measurement for each sample aliquot analyzed.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix A - Table of t Values	MUST	The analytical method used MUST be specifically identified by number or title and the MDL for each analyte expressed in the appropriate method reporting units.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix A - Table of t Values	MUST	If the analytical method permits options which affect the method detection limit, these conditions MUST be specified with the MDL value.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix A - Table of t Values	MUST	The sample matrix used to determine the MDL MUST also be identified with MDL value.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix B - Notes	MUST	The calibration curve MUST encompass the regulatory minimum reporting level (MRL) concentration.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix B - Notes	MUST	The laboratory MUST verify the accuracy of the calibration curve at the MRL concentration by analyzing an MRL check standard with a concentration less than or equal to 110% of the MRL with each batch of samples.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix B - Notes	MUST	The measured concentration for the MRL check standard MUST be $\pm 50\%$ of the expected value, if any field sample in the batch has a concentration less than 5 times the regulatory MRL	6109.03, 6109.04	state REQUIRED		X		

3745-89-03	Appendix B - Notes	MUST	Method REQUIREments to analyze higher concentration check standards and meet tighter acceptance criteria for them MUST be met in addition to the MRL check standard REQUIREment.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix B - Notes	MUST	Laboratories that use EPA Methods 317.0 Revision 2.0, 326.0 or 321.8 MUST meet a 1.0 µg/L MRL for bromate.	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix C - Table 2 (limits for DBPs)	MUST	Laboratory MUST meet all 4 individual THM acceptance limits in order to successfully pass a proficiency test for TTHM	6109.03, 6109.04	state REQUIRED		X		
3745-89-03	Appendix C - Table 2 (limits for DBPs)	MUST	Laboratory MUST meet the acceptance limits for 4 out of 5 of the HAA5 compounds in order to successfully pass a proficiency test for HAA5	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(1)	SHALL	The laboratory SHALL maintain a valid and unexpired laboratory certification under rule 3745-89-05 of the Administrative Code for the analyses for which renewal is sought.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(2)	SHALL	The laboratory SHALL submit to the director a completed application for renewal, including the parts described in paragraphs (A)(2) and (A)(3)(a) to (A)(3)(e) of rule 3745-89-03 of the Administrative Code, no sooner than one hundred twenty days and no later than thirty days prior to the expiration date of the currently valid certification.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(3)	SHALL	If the applicable laboratory survey fee is not already paid, the laboratory SHALL submit the appropriate laboratory survey fee in accordance with section 3745.11 of the Revised Code.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(3)(e)	SHALL	Fees for these surveys SHALL be paid via a method acceptable to the director.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04		SHALL	The laboratory SHALL demonstrate an acceptable level of performance, by all persons to be included in renewal of laboratory certification, during an on-site survey as described in paragraph (A)(5) of rule 3745-89-03 of the Administrative Code	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(4)	SHALL	An on-site survey SHALL also include an evaluation of the maintenance of laboratory data.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(4)	SHALL	Microbiological records SHALL be maintained for at least five years; chemical records SHALL be maintained for at least ten years; lead and copper records SHALL be maintained for at least twelve years; and, all other records SHALL be maintained for at least ten years.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(4)	SHALL	Microbiological records SHALL be maintained for at least five years; chemical records SHALL be maintained for at least ten years; lead and copper records SHALL be maintained for at least twelve years; and, all other records SHALL be maintained for at least ten years.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(4)	SHALL	Microbiological records SHALL be maintained for at least five years; chemical records SHALL be maintained for at least ten years; lead and copper records SHALL be maintained for at least twelve years; and, all other records SHALL be maintained for at least ten years.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(4)	SHALL	Microbiological records SHALL be maintained for at least five years; chemical records SHALL be maintained for at least ten years; lead and copper records SHALL be maintained for at least twelve years; and, all other records SHALL be maintained for at least ten years.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(5)	SHALL	The laboratory SHALL maintain documentation that the quality assurance plan REQUIRED in paragraph (A)(2) of rule 3745-89-03 of the Administrative Code is reviewed annually.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(A)(5)	REQUIRED	The laboratory SHALL maintain documentation that the quality assurance plan REQUIRED in paragraph (A)(2) of rule 3745-89-03 of the Administrative Code is reviewed annually.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(B)	SHALL	When a valid certification for analysis of drinking water is not renewed in accordance with paragraph (A) of this rule, the certification expires and analyses by the laboratory SHALL not satisfy the REQUIREments of Chapters 3745-81, 3745-82 and 3745-90, and rules 3745-91-06 and 3745-9-09, and as specified by paragraph (B) of rule 3745-83-01 of the Administrative Code.	6109.03, 6109.04	state REQUIRED		X		
3745-89-04	(B)	SHALL	If the laboratory wishes to be recertified for drinking water analysis, it may apply for certification as REQUIRED by rule 3745-89-03 of the Administrative Code.	6109.03, 6109.04	state REQUIRED		X		
3745-89-05	(A)(4)	REQUIRED	Documentation that drinking water analyses REQUIRED for the purpose of determining compliance with plant control tests and Chapters 3745-81, 3745-82 and 3745-90, and rules 3745-91-06 and 3745-9-09, and as specified by paragraph (B) of rule 3745-83-01 of the Administrative Code, are performed in accordance with the analytical methods which the laboratory has been certified to use.	6109.03, 6109.04	state REQUIRED		X		
3745-89-05	(A)(8)	SHALL	Upon completion of said remodeling or relocation the laboratory SHALL notify the director in writing.	6109.03, 6109.04	state REQUIRED		X		
3745-89-05	(A)(13)	REQUIRED	Satisfactory performance for analyses included in interlaboratory comparison and verification studies, if such are REQUIRED by the director.	6109.03, 6109.04	state REQUIRED		X		

3745-89-05	(A)(16)	SHALL	The corrections SHALL be reported to the director in writing, satisfactorily addressing each individual deviation.	6109.03, 6109.04	state REQUIRED		X		
3745-89-05	(B)	REQUIRED	The laboratory may be REQUIRED to issue notification to its customers, within a specified period of time, explaining deviations noted in the survey	6109.03, 6109.04	state REQUIRED		X		
3745-89-05	(C)	SHALL	In addition to paragraph (A) of this rule, laboratories holding a valid and unexpired laboratory certification for gross alpha particle activity, radium-226 and radium-228 radioactivity, gross beta particle activity, strontium-89 and strontium-90 radioactivity, tritium, or radioactivity from photon emitters (excluding iodine-131), SHALL participate in all quality control samples and proficiency test samples.	6109.03, 6109.04	state REQUIRED		X		
3745-89-05	(C)	SHALL	Satisfactory performance in appropriate analyses as described in rule 3745-89-03 of the Administrative Code SHALL be obtained in at least one proficiency test study per year.	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(A)	SHALL	The director SHALL issue or renew a laboratory certification provided the laboratory has met the laboratory certification REQUIREments as described in this chapter of the Administrative Code.	6109.03, 6109.04	state REQUIRED		X		X
3745-89-06	(A)(1)	SHALL	Laboratory certification SHALL expire within three years from the effective date of certification.	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(A)(1)	SHALL	Laboratory certification SHALL expire within one year from the effective date of certification if the laboratory certification meets one of the following:	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(D)	SHALL	The director SHALL revoke an individual's certification to perform laboratory analyses issued under this chapter if the individual is an operator certified under Chapter 3745-7 of the Administrative Code and said certification is suspended or revoked for actions related to falsification	6109.03, 6109.04	state REQUIRED		X		X
3745-89-06	(E)	SHALL	During the pendency of an action to suspend or revoke a laboratory certification, the results of performances on a proficiency test SHALL not be considered by the director in making a determination to suspend or revoke the certification.	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(F)	SHALL	The results of drinking water analyses SHALL not be acceptable for determining compliance with Chapters 3745-81, 3745-82 and 3745-90, and rules 3745-91-06 and 3745-9-09, or as specified by paragraph (B) of rule 3745-83-01 of the Administrative Code, or for other analyses REQUIRED by the director, if the results are obtained in violation of rule 3745-81-27 of the Administrative Code or this chapter during the pendency of an action to suspend or revoke a laboratory certification.	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(F)	REQUIRED	The results of drinking water analyses SHALL not be acceptable for determining compliance with Chapters 3745-81, 3745-82 and 3745-90, and rules 3745-91-06 and 3745-9-09, or as specified by paragraph (B) of rule 3745-83-01 of the Administrative Code, or for other analyses REQUIRED by the director, if the results are obtained in violation of rule 3745-81-27 of the Administrative Code or this chapter during the pendency of an action to suspend or revoke a laboratory certification.	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(G)	SHALL	Suspension of a laboratory certification SHALL be for a time period specified by the director, but no less than thirty days and no more than six months, provided a correction statement is submitted in writing to the director addressing each individual deviation within the time period specified by the director and is acceptable to the director in accordance with paragraph (I) of this rule.	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(H)	SHALL	The director MAY NOTIFY or REQUIRE a laboratory to notify customers, within a specific period of time, of the suspended or revoked certification	6109.03, 6109.04	state REQUIRED		X		X
3745-89-06	(I)	SHALL	The laboratory SHALL demonstrate in a manner acceptable to the director that deviations have been addressed to cease suspended certification	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(I)	SHALL	The demonstration SHALL be in writing and may include, but not be limited to, on-site surveys or other means as determined by the director	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(J)	SHALL	Revocation or denial of a new or renewed laboratory certification SHALL remain in effect for a time period specified by the director of not less than ninety days and not more than one year.	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(J)	SHALL	Laboratories SHALL not reapply for certification until the period of denial or revocation expires. After such time, the laboratory may apply for certification as specified in rule 3745-89-03 of the Administrative Code.	6109.03, 6109.04	state REQUIRED		X		
3745-89-06	(K)	SHALL	All actions under this rule affecting the status of a laboratory's certification SHALL be in accordance with Chapters 3745-47 and 3745-49 of the Administrative Code.	6109.03, 6109.04	state REQUIRED		X		

3745-89-06	(K)	SHALL	The director SHALL notify the laboratory of any action to deny, suspend or revoke certification.	6109.03, 6109.04	state REQUIRED		X		X
3745-89-07		SHALL	A laboratory certificate issued under this chapter remains the property of the state and SHALL be surrendered to the director upon revocation	6109.03, 6109.04	state REQUIRED		X		
3745-89-07		SHALL	The certificate SHALL be displayed at all times in a prominent location in the laboratory for which it was issued.	6109.03, 6109.04	state REQUIRED		X		
3745-89-08	intro	SHALL	Analysis and reporting for samples used to determine compliance with Chapters 3745-81, 3745-82 and 3745-90, and rules 3745-9-09 and 3745-91-06 of the Administrative Code SHALL be completed by a laboratory certified by the director to perform drinking water testing, or by a facility acceptable to the director, including out of state laboratories that meet paragraph (D) of rule 3745-89-02 of the Administrative Code, as follows:	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(A)	SHALL	Beginning October 1, 2018, a complete analysis, including quality control, SHALL be performed no later than thirty business days after receipt of the sample. For radiological chemicals, a complete analysis, including quality control, SHALL be performed no later than sixty business days after receipt of the sample.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(A)	SHALL	For radiological chemicals, a complete analysis, including quality control, SHALL be performed no later than sixty business days after receipt of the sample.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(B)	SHALL	Except as provided for in paragraph (C) of this rule, results SHALL be reported to the director and to public water systems by the tenth day following the date the analyses are completed.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(B)	REQUIRED	All reports REQUIRED under this rule SHALL be submitted electronically via a method acceptable to the director.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(B)	SHALL	All reports REQUIRED under this rule SHALL be submitted electronically via a method acceptable to the director.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(C)	SHALL	The following results SHALL be reported by no later than the end of the next business day after the analysis is completed:	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(C)(1)	REQUIRED	All positive and all repeat sample results REQUIRED by rules 3745-81-14 and 3745-81-21 of the Administrative Code, and all microbial monitoring results REQUIRED by rule 3745-81-42 of the Administrative Code	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(C)(1)	REQUIRED	All positive and all repeat sample results REQUIRED by rules 3745-81-14 and 3745-81-21 of the Administrative Code, and all microbial monitoring results REQUIRED by rule 3745-81-42 of the Administrative Code	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(C)(3)	REQUIRED	All detections of total microcystins in raw and finished water samples REQUIRED by Chapter 3745-90 of the Administrative Code, all results of microcystins samples collected in response to an exceedance of the microcystins action level established in paragraph (A)(1) or (A)(2) of rule 3745-90-02 of the Administrative Code, and all results of cyanobacteria screening that indicate the potential for production of cylindrospermopsin, saxitoxins or anatoxin-a	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(C)(5)	REQUIRED	All startup sample results for seasonal public water systems REQUIRED by rule 3745-81-51 of the Administrative Code.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(D)	REQUIRED	All results REQUIRED to be reported under paragraph (C) of this rule MUST be reported as follows:	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(D)	MUST	All results REQUIRED to be reported under paragraph (C) of this rule MUST be reported as follows:	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(E)	REQUIRED	Reports REQUIRED under this rule SHALL be submitted on forms or in a form acceptable to the director and SHALL be complete and correct	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(E)	SHALL	Reports REQUIRED under this rule SHALL be submitted on forms or in a form acceptable to the director and SHALL be complete and correct.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(E)	SHALL	Reports REQUIRED under this rule SHALL be submitted on forms or in a form acceptable to the director and SHALL be complete and correct.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(E)	REQUIRED	Additional information may be REQUIRED based on contaminant.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(E)	SHALL	Each report SHALL include at least the analytical data, the name and certification number of the laboratory performing or reporting the analysis, the analytical method type, the dates that the sample was collected and received as well as the date the analysis was completed, the sample identification number as separately assigned by the laboratory for each sample, the analyst number of the laboratory analyst who performed the analyses, the sample collector's identification information, and complete sample and public water system identification information including sample location description, sample monitoring point and sample type.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(F)	SHALL	Laboratories SHALL report analytical results in accordance with the reporting limits established in appendix B to rule 3745-89-03 of the Administrative Code.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		

3745-89-08	(G)	REQUIRED	Failure by a laboratory to file appropriate, complete, correct, and timely reports of analytical results REQUIRED by this rule may be considered by the director as failure to meet an acceptable level of performance and as failure to successfully meet the REQUIREments for renewal of a laboratory certification.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(H)	REQUIRED	Analytical results REQUIRED by rules 3745-81-73 to 3745-81-75, and 3745-83-01 and Chapter 3745-82 of the Administrative Code, except for paragraph (G)(1) of rule 3745-81-75 of the Administrative Code, SHALL be reported to the director only when requested by the director.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-08	(H)	SHALL	Analytical results REQUIRED by rules 3745-81-73 to 3745-81-75, and 3745-83-01 and Chapter 3745-82 of the Administrative Code, except for paragraph (G)(1) of rule 3745-81-75 of the Administrative Code, SHALL be reported to the director only when requested by the director	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-09	(A)(1)	SHALL	The director SHALL grant interim authorization only to an individual(s) who has performed acceptably during parallel testing defined in paragraph (A)(3)(d) or (A)(3)(e) of this rule.	6109.03, 6109.04	federal REQUIRED	40 CFR 141.852	X		X
3745-89-09	(A)(3)	SHALL	A laboratory SHALL submit an application for interim authorization to the director on a form provided by the director. The application SHALL include the following information:	6109.03, 6109.04	federal REQUIRED	40 CFR 141.852	X		
3745-89-09	(A)(3)	SHALL	The application SHALL include the following information:	6109.03, 6109.04	federal REQUIRED	40 CFR 141.852	X		
	(A)(3)(e)	REQUIRED	Documentation for each individual requesting interim authorization for MMO-MUG (SM 9223) MUST include seven samples per day totaling at least twenty-one samples, including the REQUIRED quality control samples, with results generated in parallel testing with an analyst included on a certificate for MMO-MUG (SM 9223) tests. The previous certification of an individual to perform MMO-MUG (SM 9223) tests may be considered for satisfying this REQUIREment.	6109.03, 6109.04	federal REQUIRED	40 CFR 141.852	X		
3745-89-09	(B)	SHALL	In order for an individual to be granted interim authorization for any plant control test or MMO-MUG (SM 9223) tests, the analytical results REQUIRED by paragraphs (A)(3)(d) and (A)(3)(e) of this rule SHALL indicate the individual has an acceptable performance as defined in paragraph (A)(1) of this rule	6109.03, 6109.04	federal REQUIRED	40 CFR 141.852	X		
3745-89-09	(B)	REQUIRED	In order for an individual to be granted interim authorization for any plant control test or MMO-MUG (SM 9223) tests, the analytical results REQUIRED by paragraphs (A)(3)(d) and (A)(3)(e) of this rule SHALL indicate the individual has an acceptable performance as defined in paragraph (A)(1) of this rule	6109.03, 6109.04	federal REQUIRED	40 CFR 141.852	X		
3745-89-09	(C)	SHALL	The analytical results produced by the individual with interim authorization SHALL be independently reviewed by an analyst included on a certificate for the same tests as those granted for interim authorization.	6109.03, 6109.04	federal REQUIRED	40 CFR 141.852	X		
3745-89-09	(D)	SHALL	Within six months of an interim authorization, an on-site survey will be scheduled. Interim authorization SHALL remain in effect for a period not to exceed six months, unless an extension is granted or, if an on-site survey is scheduled or has been conducted, until the on-site survey report is issued.	6109.03, 6109.04	federal REQUIRED	40 CFR 141.852	X		
3745-89-09	(E)	SHALL	The laboratory SHALL demonstrate an acceptable level of performance, by all individuals for which interim authorization is sought, during an on-site survey as described in paragraph (A)(5) of rule 3745-89-03 of the Administrative Code.	6109.03, 6109.04	federal REQUIRED	40 CFR 141.852	X		
3745-89-10	intro	SHALL	Such authorization SHALL follow the following procedures:	6109.03, 6109.04	state REQUIRED		X		
3745-89-10	(A)	SHALL	The director SHALL notify certified laboratories of the availability of interim authorization and the drinking water analyses to be included.	6109.03, 6109.04	state REQUIRED		X		X
3745-89-10	(B)	SHALL	Interim authorization SHALL only be available to laboratories which currently have valid certification under this chapter for the same type of drinking water analysis (microbiological contaminants, inorganic, trace metals, etc.) as the drinking water analyses to be included in the interim authorization.	6109.03, 6109.04	state REQUIRED		X		
3745-89-10	(C)	SHALL	In order to be considered for interim authorization, the laboratory SHALL submit to the director an application for interim authorization, on a form provided by the director. The application SHALL include the following information:	6109.03, 6109.04	state REQUIRED		X		
3745-89-10	(C)	SHALL	The application SHALL include the following information:	6109.03, 6109.04	state REQUIRED		X		
3745-89-10		SHALL	The analysts SHALL be individuals already identified on a valid certificate of approval for the laboratory for performing similar analyses or for analyzing the same type of contaminant.	6109.03, 6109.04	state REQUIRED		X		

3745-89-10	(C)(2)	SHALL	The analysts SHALL be individuals already identified on a valid certificate of approval for the laboratory for performing similar analyses or for analyzing the same type of contaminant.	6109.03, 6109.04	state REQUIRED		X		
3745-89-10	(C)(5)	SHALL	The test data SHALL be sent directly to the state proficiency test coordinator from the proficiency test provider. The laboratory SHALL pass the proficiency test study with the method for which interim authorization is being sought.	6109.03, 6109.04	state REQUIRED		X		
3745-89-10	(C)(5)	SHALL	The laboratory SHALL pass the proficiency test study with the method for which interim authorization is being sought.	6109.03, 6109.04	state REQUIRED		X		
3745-89-10	(D)	SHALL	When granted, interim authorization SHALL state the individuals and drinking water analyses included in the interim authorization and the length of time that the interim authorization will remain in effect.	6109.03, 6109.04	state REQUIRED		X		
3745-89-10	(E)	SHALL	An on-site survey SHALL be scheduled to verify acceptable performance by the laboratory granted interim authorization.	6109.03, 6109.04	state REQUIRED		X		
3745-89-10	(E)	SHALL	Interim authorization SHALL remain in effect for the length of time specified by the director or until the on-site survey is completed and certification is granted under rule 3745-89-06 of the Administrative Code, whichever occurs first.	6109.03, 6109.04	state REQUIRED		X		
3745-89-11	(A)	SHALL	Systems SHALL have Cryptosporidium samples analyzed in accordance with procedures identified in rule 3745-81-27 of the Administrative Code by a laboratory that is certified by the United States environmental protection agency, the "National Environmental Laboratory Accreditation Program (NELAP)," or by another state program, which is acceptable to the director, to perform the REQUIRED analyses.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-11	(B)	SHALL	E. coli. Systems SHALL have E. coli samples analyzed by a laboratory that is certified by the United States environmental protection agency or the "National Environmental Laboratory Accreditation Program (NELAP)" for E. coli analysis in accordance with 40 C.F.R. 141.74 or a laboratory certified by the Ohio environmental protection agency in accordance with procedures identified in rule 3745-81-27 of the Administrative Code, provided that the laboratory obtains acceptable results on a source water proficiency test sample.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		
3745-89-11	(C)	SHALL	Turbidity. Measurements of turbidity SHALL be made in accordance with paragraph (C)(3) of rule 3745-81-27 of the Administrative Code.	6109.03, 6109.04	federal REQUIRED	40 C.F.R. 141.74	X		

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-90-01	(A)	REQUIRE	Action level, for the purposes of this chapter, is the concentration of a cyanotoxin which, if exceeded, will REQUIRE additional monitoring, and potentially other actions as described in this chapter of the Administrative Code.	3745.50, 6109.04	State REQUIRED				
3745-90-02	(B)	REQUIRE	Exceedance of these action levels in samples collected at a finished water sampling point or a distribution sampling point will REQUIRE additional monitoring, and potentially other actions as described in this chapter of the Administrative Code.	3745.50, 6109.04	State REQUIRED				
3745-90-03	intro	SHALL	This rule applies to all surface water systems and consecutive water systems receiving water from a surface water source. Seasonal systems SHALL monitor in accordance with this rule during the system's operating season.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(A)	SHALL,SHALL	1) Cyanobacteria screening. Surface water systems SHALL monitor with a minimum of one sample from each raw water sampling point at least once every two weeks for cyanobacteria screening. Cyanobacteria samples SHALL be collected at the same time as the routine microcystins sample.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(A)	SHALL	(a) Routine microcystins monitoring REQUIREments between May first and October thirty-first. Surface water systems SHALL monitor with a minimum of one sample from each raw water sampling point and one sample from each finished water sampling point at least weekly for microcystins analysis.	3745.50, 6109.04					
3745-90-03	(A)	SHALL	(i) Surface water systems SHALL continue to monitor in accordance with paragraph (A)(2)(a) of this rule unless microcystins are not detected in at least two consecutive weekly samples from both the raw water sampling point and the finished water sampling point, then the microcystins monitoring frequency is reduced to a minimum of one sample from each raw water sampling point at least once every two weeks.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(A)	SHALL	(ii) If microcystins are detected at a raw water sampling point, weekly monitoring at that raw water sampling point and the finished water sampling point SHALL be conducted beginning no later than twenty-four hours following the detection. When microcystins are not detected in at least two consecutive weekly samples from both the raw water sampling point and the finished water sampling point, then monitoring once every two weeks may resume in accordance with paragraph (A)(2)(b)(i) of this rule.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(A)	SHALL	The frequency of monitoring at both raw water sampling points and finished water sampling points SHALL be increased to three days a week, beginning no later than the following week, if microcystins exceed five micrograms per liter (ug/L) at the raw water sampling point, unless an alternate frequency has been established as part of the approved cyanotoxin general plan in accordance with rule 3745-90-05 of the Administrative Code.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(A)	SHALL, SHALL	The frequency of monitoring at both raw water sampling points and finished water sampling points SHALL be increased to daily if microcystins are detected at finished water sampling points collected in accordance with this rule, or distribution sampling points collected in accordance with this rule. Daily monitoring SHALL include analysis within twenty-four hours of sample collection.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(A)	SHALL	The cyanobacteria screening or routine microcystins monitoring frequency may be revised (decreased, increased or discontinued) at the discretion of the director. When establishing the revised schedule, the director may consider cyanobacteria screening data collected in accordance with this rule, microcystins data, and other information provided by the public water system including data from other screening tools (such as phycocyanin sensors or phytoplankton enumeration) and treatment information. Surface water systems SHALL monitor in accordance with the revised cyanobacteria screening or routine microcystins monitoring schedule established by the director.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(A)	SHALL	If microcystins exceed an action level established in paragraph (A)(1) or (A)(2) of rule 3745-90-02 of the Administrative Code in routine samples collected at the finished water sampling point, the public water system SHALL do the following:	3745.50, 6109.04					
3745-90-03	(A)	MUST	(a) As soon as possible, but no later than twenty-four hours after receiving the results of the initial action level exceedance, collect one resample from each raw water sampling point and one resample from each finished water sampling point. Analysis of resamples MUST be completed within twenty-four hours of collection. These resamples satisfy the REQUIREment for daily samples as set forth in paragraph (A)(2)(d) of this rule.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(A)	MUST	(b) Within twenty-four hours of collecting the resamples, collect one repeat sample from each raw water sampling point and one repeat sample from each finished water sampling point. Analysis of repeat samples MUST be completed within twenty-four hours of collection. These repeat samples satisfy the REQUIREment for daily samples as set forth in paragraph (A)(2)(d) of this rule.	3745.50, 6109.04	State REQUIRED				

3745-90-03	(A)	SHALL,SHALL,REQUIRED, MUST	(c) If the microcystins concentration exceeds the action level in the resample or repeat sample collected at any finished water sampling point in accordance with paragraph (A)(4)(a) or (A)(4)(b) of this rule, as soon as practical but no later than three hours after receiving the resample or repeat sample results, the surface water system SHALL notify all consecutive systems served by the water system. The surface water system with the action level exceedance, and all consecutive water systems served by the water system, SHALL within twenty-four hours of receiving the resample or repeat sample results, collect samples at representative distribution sampling points in accordance with the contingency plan REQUIRED by rule 3745-85-01 of the Administrative Code. Additional distribution system monitoring may be REQUIRED by the director based on sampling results and other relevant circumstances. Analysis of distribution samples MUST be completed within twenty-four hours of collection.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(B)	SHALL, REQUIRED, MUST	Within twenty-four hours of receiving notification of an action level exceedance in accordance with paragraph (A)(4)(c) or (C)(2)(c) of this rule, the consecutive water system SHALL collect samples at representative distribution sampling points in accordance with the contingency plan REQUIRED by rule 3745-85-01 of the Administrative Code. Additional distribution system monitoring may be REQUIRED by the director based on sampling results and other relevant circumstances. Analysis of distribution samples MUST be completed within twenty-four hours of collection.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(C)	SHALL	(a) Routine microcystins monitoring REQUIREments between May first and October thirty-first. Consecutive water systems receiving water from an out-of-state surface water source SHALL monitor with a minimum of one sample from each finished water sampling point at least weekly for microcystins analysis.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(C)	SHALL	(b) Routine microcystins monitoring REQUIREments between November first and April thirtieth. Consecutive water systems receiving water from an out-of-state surface water source SHALL monitor with a minimum of one sample from each finished water sampling point at least once every two weeks for microcystins analysis.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(C)	SHALL, SHALL	(c) Increased routine microcystins monitoring (daily). The frequency of monitoring at finished water sampling points SHALL be increased to daily if microcystins are detected at finished water sampling points collected in accordance with this rule, or distribution sampling points collected in accordance with this rule. Daily monitoring SHALL include analysis within twenty-four hours of sample collection.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(C)	SHALL	(d) Revised routine microcystins monitoring frequency. The routine microcystins monitoring frequency may be revised (decreased, increased or discontinued) at the discretion of the director. When establishing the revised schedule, the director may consider microcystins data, and other information provided by the public water system including data from screening tools (such as phycocyanin sensors or phytoplankton enumeration) and treatment information. Consecutive water systems SHALL monitor in accordance with the revised routine microcystins monitoring schedule established by the director.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(C)	SHALL	(2) Response to microcystins action level exceedance. If microcystins exceed an action level established in paragraph (A)(1) or (A)(2) of rule 3745-90-02 of the Administrative Code in routine samples collected at the finished water sampling point, the public water system SHALL do the following:	3745.50, 6109.04	State REQUIRED				
3745-90-03	(C)	MUST	(a) As soon as possible, but no later than twenty-four hours after receiving the results of the initial action level exceedance, collect one resample from each finished water sampling point. Analysis of resamples MUST be completed within twenty-four hours of collection. This resample satisfies the REQUIREment for daily samples as set forth in paragraph (C)(1)(c) of this rule.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(C)	MUST	(b) Within twenty-four hours of collecting the resamples, collect one repeat sample from each finished water sampling point. Analysis of repeat samples MUST be completed within twenty-four hours of collection. This repeat sample satisfies the REQUIREment for daily samples as set forth in paragraph (C)(1)(c) of this rule.	3745.50, 6109.04	State REQUIRED				

3745-90-03	(C)	SHALL,SHALL,REQUIRED, MUST	(c) If the microcystins concentration exceeds the action level in the resample or repeat sample collected at any finished water sampling point in accordance with paragraph (C)(2)(a) or (C)(2)(b) of this rule, as soon as practical but no later than three hours after receiving the resample or repeat sample results, the public water system SHALL notify all consecutive systems served by the water system. The public water system with the action level exceedance, and all consecutive water systems served by the water system, SHALL within twenty-four hours of receiving the resample or repeat sample results, collect samples at representative distribution sampling points in accordance with the contingency plan REQUIRED by rule 3745-85-01 of the Administrative Code. Additional distribution system monitoring may be REQUIRED by the director based on sampling results and other relevant circumstances. Analysis of distribution samples MUST be completed within twenty-four hours of collection.	3745.50, 6109.04	State REQUIRED				
3745-90-03	(D)	REQUIRED, SHALL	Upon a request from a public water system, the director may agree to extend the twenty-four hour monitoring REQUIREment for daily, resample, repeat or distribution samples REQUIRED pursuant to this rule on a case-by-case basis when the public water system has a logistical problem collecting samples within twenty-four hours or analyzing samples in accordance with the REQUIREments of this chapter. When an extension is agreed to by the director, the director SHALL specify in writing how much time the public water system has to monitor. Examples of potential logistical problems include, but are not limited to:	3745.50, 6109.04	State REQUIRED				
3745-90-03	(E)	REQUIRES, REQUIRES	Failure to comply with routine and distribution monitoring REQUIREments in paragraph (A)(1), (A)(2), (A)(3), (A)(4)(c), (B), (C)(1) or (C)(2)(c) of this rule is a monitoring violation and REQUIRES the public water system to provide Tier 3 public notification in accordance with rule 3745-81-32 of the Administrative Code. Failure to comply with resample and repeat sample REQUIREments in paragraph (A)(4)(a), (A)(4)(b), (C)(2)(a) or (C)(2)(b) of this rule is a monitoring violation and REQUIRES the public water system to provide a tier 1 public notification accordance with rule 3745-81-32 of the Administrative Code.	3745.50, 6109.04	State REQUIRED				
3745-90-04	(A)	SHALL, SHALL	Until one year after the effective date of this rule, microcystins analysis SHALL be performed by a laboratory found to be acceptable to the Ohio environmental protection agency. Beginning one year from the effective date of this rule, microcystins analysis SHALL be performed by a laboratory certified by the director pursuant to Chapter 3745-89 of the Administrative Code. However, if a laboratory found to be acceptable submits a complete application for certification in accordance with rule 3745-89-04 of the Administrative Code, the laboratory may continue to perform microcystins analysis until action is taken on the application.	3745.50, 6109.04	State REQUIRED				x
3745-90-04	(B)	REQUIRED, SHALL	Until the director determines there is sufficient certified laboratory capacity for cyanobacteria screening and no earlier than one year after the effective date of this rule, the Ohio environmental protection agency division of environmental services will perform cyanobacteria screening. After the director determines there is sufficient certified laboratory capacity for cyanobacteria screening, cyanobacteria screening REQUIRED by this chapter SHALL be performed by a laboratory certified by the director pursuant to Chapter 3745-89 of the Administrative Code.	3745.50, 6109.04	State REQUIRED				
3745-90-04	(C)	REQUIRED, SHALL	In addition, analysis REQUIRED by this chapter SHALL be conducted in accordance with the following analytical methods and time frames:		State REQUIRED				
3745-90-04	(C)	MUST	(1) Cyanobacteria screening: qPCR method accepted by the director or another method accepted by the director in writing. Samples MUST be analyzed within seven days of collection.		State REQUIRED				
3745-90-04	(C)	MUST	(2) Microcystins: "Ohio EPA DES method 701.0, Ohio EPA Total (Extracellular and Intracellular) Microcystins - ADDA by ELISA Analytical Methodology" version 2.2 (November 2015) or another method accepted by the director in writing. Except where otherwise noted in this chapter and notwithstanding the holding time specified in the method, samples MUST be analyzed within five days of collection.		State REQUIRED				
3745-90-04	(D)	SHALL	Reporting of analytical data for determining compliance with this chapter SHALL be completed in accordance with rule 3745-89-08 of the Administrative Code.		State REQUIRED				
3745-90-04	(E)	REQUIRES	Failure to meet paragraph (D) of this rule is a reporting violation and REQUIRES the public water system to provide tier 3 public notification in accordance with rule 3745-81-32 of the Administrative Code.		State REQUIRED				x
3745-90-05	(A)	SHALL, SHALL, SHALL, SHALL	A public water system SHALL develop and submit to the director written treatment optimization protocols when microcystins are detected in a sample collected at a raw water sampling point or a finished water sampling point. The protocols SHALL include treatment adjustments that will be made under various raw and finished water conditions. In developing the protocols, the public water system SHALL review and optimize existing treatment for microcystins, considering effective strategies for cyanotoxin treatment such as avoiding lysing cyanobacterial cells, optimizing removal of intact cells, optimizing barriers for extracellular cyanotoxin removal or destruction, optimizing sludge removal and discontinuing or minimizing backwash recycling. The treatment optimization protocols SHALL be submitted to the director in accordance with the following timelines:		State REQUIRED				

3745-90-05	(A)	REQUIRED	(2) If a public water system was not REQUIRED to submit written treatment optimization protocols under paragraph (A)(1) of this rule, then within thirty days of a detection of microcystins in a sample collected after the effective date of this rule.		State REQUIRED				
3745-90-05	(B)	SHALL	A public water system SHALL comply with all of the following when monitoring conducted in accordance with rule 3745-90-03 of the Administrative Code indicates microcystins concentrations exceed 1.6 micrograms per liter in a sample collected at the raw water sampling point more than once within a consecutive twelve-month period, or when microcystins are detected in a sample collected at a finished water sampling point or a distribution sampling point:		State REQUIRED				x
3745-90-05	(B)	SHALL, SHALL,SHALL	(1) Within one hundred and twenty days, the public water system SHALL submit a cyanotoxin general plan to the director for approval in accordance with paragraph (C) of rule 3745-91-02 of the Administrative Code. The cyanotoxin general plan SHALL include both short-term and long-term actions to prevent exceedances of the microcystins action levels established in paragraph (A)(1) or (A)(2) of rule 3745-90-02 of the Administrative Code in finished water. The cyanotoxin general plan may include one or a combination of source water protection activities, avoidance strategies, reservoir management and in-plant treatment technologies. The cyanotoxin general plan SHALL include a schedule for implementation or a demonstration that existing practices are sufficient to prevent exceedances of the microcystins action levels established in paragraph (A)(1) or (A)(2) of rule 3745-90-02 of the Administrative Code in finished water. The cyanotoxin general plan may be approved by the director with or without conditions or disapproved in accordance with the provisions of Chapter 3745-91 of the Administrative Code.		State REQUIRED				
3745-90-05	(C)	SHALL	If the system does not comply with paragraph (A), (B)(1) or (B)(2) of this rule, the public water system is in violation of the treatment technique REQUIREments of this rule and SHALL issue tier 2 public notification in accordance with rule 3745-81-32 of the Administrative Code using the standard health effects language in paragraph (C) of rule 3745-90-06 of the Administrative Code.		State REQUIRED				
3745-90-06	(A)	SHALL	(1) A public water system SHALL issue Tier 1 public notification in accordance with rule 3745-81-32 of the Administrative Code when any of the following occur:		State REQUIRED				

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-91-01		SHALL	Except for definitions contained in this rule, the definitions in rule 3745-81-01 of the Administrative Code SHALL apply to this chapter. As used in this chapter of the Administrative Code:	6109.04'	State REQUIRED				
3745-91-01	C1	SHALL	Substantial change SHALL include but not be limited to the following:	6109.04'	State REQUIRED				
3745-91-01	C2	SHALL	Substantial change SHALL not include the following:	6109.04'	State REQUIRED				
3745-91-02	A	SHALL	No person SHALL begin construction or installation of a public water system, or make a substantial change in a public water system, until plans therefor have been approved by the director of environmental protection, unless exempted pursuant to paragraphs (D) to (F) of this rule. An application for approval of plans for such construction, installation or substantial change in a public water system, as REQUIRED by section 6109.07 of the Revised Code, SHALL be submitted to the district office and SHALL consist of all of the following:	6109.04'	State REQUIRED				X
3745-91-02	B	SHALL	A person applying for plan approval for a public water system under section 6109.07 of the Revised Code SHALL pay a fee pursuant to section 3745.11 of the Revised Code. The fee SHALL be paid at the time the application is submitted, by tendering a check payable to the treasurer of the state of Ohio.	6109.04'	State REQUIRED				
3745-91-02	C1	SHALL	General plans submitted for conditional approval SHALL be submitted in three copies	6109.04'	State REQUIRED				
3745-91-02	C2	SHALL	General plans concerning proposed wells SHALL include the following:	6109.04'	State REQUIRED				
3745-91-02	D4a	SHALL	Each project summary SHALL identify the following items:	6109.04'	State REQUIRED				
3745-91-02	H	SHALL	Public water systems SHALL remove equipment that is not REQUIRED to meet safe drinking water regulations when it is no longer intended for use on a temporary, seasonal or permanent basis, no longer in working order or poses a potential threat to water quality. Plan approval prior to the removal of this equipment is REQUIRED unless written agreement from the director to the public water system indicates plan approval is not REQUIRED.	6109.04'	State REQUIRED				X
3745-91-03	A	SHALL	Plan drawings SHALL conform to the following:	6109.04'	State REQUIRED				
3745-91-03	B	SHALL	The following types of plans REQUIRED pursuant to rule 3745-91-02 of the Administrative Code SHALL be prepared by a registered professional engineer and issued in a manner consistent with section 4733.14 of the Revised Code:	6109.04'	State REQUIRED				
3745-91-04	N/A	SHALL	Specifications SHALL:	6109.04'	State REQUIRED				
3745-91-05	N/A	SHALL	The data sheet SHALL be on a form provided by the director and SHALL include information such as the title of the project, project location, identification of the ultimate owner, identification of the designer, estimated construction cost, basis of design, and such other information as may be REQUIRED. Additional information may be REQUIRED depending upon the type and complexity of the project under review.	6109.04'	State REQUIRED				
3745-91-06	N/A	SHALL	The supporting information REQUIRED by this rule may vary depending on the type and complexity of the project and SHALL, at a minimum, include:	6109.04'	State REQUIRED				
3745-91-06	D	SHALL	If the plans include a new well as a source of water, the following additional materials SHALL be submitted:	6109.04'	State REQUIRED				
3745-91-07	N/A	SHALL	The submittal letter SHALL	6109.04'	State REQUIRED				
3745-91-08	A	SHALL	The following SHALL be used as a guide in the technical review of plans submitted under this chapter of the Administrative Code:	6109.04'	State REQUIRED				
3745-91-08	A1	SHALL	The Ohio environmental protection agency's "Planning and Design Criteria for Establishing Approved Capacity for (1) Surface Water and Ground Water Supply Sources, (2) Drinking Water Treatment Plants (WTPs), and (3) Source/WTP Systems" (2010). The terms and conditions of this document SHALL be followed in the event of inconsistencies between this document and the document in paragraph (A)(2) of this rule.	6109.04'	State REQUIRED				
3745-91-08	A3	SHALL	The Ohio environmental protection agency's "Guidelines for Design of Small Public Water Systems" (2015). The REQUIREments of Chapter 3745-9 of the Administrative Code SHALL be followed in the event of inconsistencies between this document and Chapter 3745-9 of the Administrative Code.	6109.04'	State REQUIRED				
3745-91-08	B	SHALL	If an application is incomplete, the applicant SHALL be so notified. No action will be taken on an application until it is complete. An incomplete application may be returned to the applicant.	6109.04'	State REQUIRED				
3745-91-08	C	SHALL	If an application is complete, but plans are not approvable, the applicant SHALL be so notified. Such notice may be accompanied by a statement of alterations or revisions necessary for approval, or the director may, in the alternative, disapprove the plans. A revised application SHALL be made in the same manner as REQUIRED by this chapter of the Administrative Code for original application, or as directed in the notice.	6109.04'	State REQUIRED				X

3745-91-08	E	SHALL	Plans that REQUIRE an escrow under section 6109.08 of the Revised Code SHALL not be approved until compliance with said section and Chapter 3745-92 of the Administrative Code is achieved. Compliance with said section and chapter are not REQUIRED until the applicant is notified that the plans will be approved upon compliance with said section and chapter. If compliance does not occur within thirty days following receipt of such notice, the director may return the application as incomplete.	6109.04'	State REQUIRED					X
3745-91-08	F	SHALL	When plans are approved, a copy of the plan drawings SHALL be so marked and returned to the owner, accompanied by notice of approval. The director may send copies of such materials to such other persons as the director may deem advisable.	6109.04'	State REQUIRED					X
3745-91-08	G	SHALL	No person SHALL construct or install a public water system, or make any substantial change in a public water system, as defined in rule 3745-91-01 of the Administrative Code, which is not in accordance with plans approved by the director. Requests for substantial changes from approved plans SHALL be made in advance of any construction work that will be affected by such changes, and SHALL allow sufficient time for review and approval by the director. A request for substantial change SHALL be made in the same manner as REQUIRED by this chapter of the Administrative Code.	6109.04'	State REQUIRED					X
3745-91-09	A	SHALL	New community water systems SHALL provide treatment for removal of the following:	6109.04'	State REQUIRED					
3745-91-09	B	SHALL	Existing community water systems, which develop a new source, or change a source SHALL provide treatment for removal of the following:	6109.04'	State REQUIRED					
3745-91-10	A	SHALL	A community public water system that provides water to a political subdivision of Ohio and serves a minimum of two hundred fifty people SHALL develop a drinking water source protection plan or update a previously endorsed drinking water source protection plan (i.e., wellhead protection plan) when, after the effective date of this rule, the system receives plan approval for use of a well.	6109.04'	State REQUIRED					
3745-91-10	B	SHALL	The plan SHALL be submitted to the Ohio environmental protection agency within two years of the date of the director's final action approving the public water system well.	6109.04'	State REQUIRED					X
3745-91-10	C	SHALL	The plan SHALL address education and outreach, drinking water shortage and emergency response, potential contaminant source control strategies and the need for an early warning ground water monitoring program. The plan SHALL contain an implementation schedule for the identified actions and be updated at least every ten years.	6109.04'	State REQUIRED					
3745-91-12	B	SHALL	Such an agreement under this rule SHALL authorize a qualified officer or representative of the political subdivision or investor-owned public utility to review plans for the extension of the distribution facilities, the increase in the number of service connections, the addition of distribution system pump station, or the addition of storage tank in the distribution system. At a minimum, said qualified person SHALL be a professional engineer licensed by the state of Ohio.	6109.04'	State REQUIRED					
3745-91-12	C	SHALL	Agreements under this rule SHALL include, but not be limited to, the following public water system REQUIREments:	6109.04'	State REQUIRED					
3745-91-12	C2	SHALL	Submission of an annual report summarizing all plans which were self-certified in the previous year. The annual report SHALL be signed by the professional engineer identified in the agreement, submitted on a form acceptable to the director and SHALL include at least the following:	6109.04'	State REQUIRED					
3745-91-12	D	SHALL	All plan submissions under this rule SHALL include the following:	6109.04'	State REQUIRED					
3745-91-12	E	SHALL	Pursuant to an effective agreement under this rule and compliance with all REQUIREments of this rule, plans submitted SHALL be approved without further review by the director. An order of approval SHALL be issued by the director as a final action.	6109.04'	State REQUIRED					X
3745-91-12	F	SHALL	The director annually SHALL calculate the administrative fee that SHALL be paid for each plan submitted under this rule and notify the political subdivision or investor-owned public utility of the amount of the fee. The administrative service fee SHALL not exceed the minimum amount necessary to pay administrative costs directly attributable to processing plan approvals.	6109.04'	State REQUIRED					X
3745-91-02	D4b	MUST	The project summary MUST be signed by a professional engineer licensed by the state of Ohio who certifies that the exempted waterline project or projects described in the project summary met paragraph (D) of this rule.	6109.04'	State REQUIRED					
3745-91-03	A6	MUST	Be drawn to scale and if not drawn to scale, MUST be dimensioned.	6109.04'	State REQUIRED					
3745-91-02	A	REQUIRE	No person SHALL begin construction or installation of a public water system, or make a substantial change in a public water system, until plans therefor have been approved by the director of environmental protection, unless exempted pursuant to paragraphs (D) to (F) of this rule. An application for approval of plans for such construction, installation or substantial change in a public water system, as REQUIRED by section 6109.07 of the Revised Code, SHALL be submitted to the district office and SHALL consist of all of the following:	6109.04'	State REQUIRED					X

3745-91-02	C	REQUIRE	General plans containing preliminary information concerning proposed source, treatment and distribution may be submitted for approval or for comment. The director may REQUIRE submittal of general plans for conditional approval prior to submittal of an application under this rule for projects with a high degree of complexity, non-standard technology, unusual features, phased implementation, compliance schedules or deviations from standards and guidelines used by the agency.	6109.04'	State REQUIRED					X
3745-91-02	G	REQUIRE	Prior plan approval is REQUIRED if the conditions for any of the exemptions in paragraphs (D) to (F) of this rule are not met. Failure to obtain plan approval or meet the conditions of any of the exemptions is a violation of this rule.	6109.04'	State REQUIRED					
3745-91-02	H	REQUIRE	Public water systems SHALL remove equipment that is not REQUIRED to meet safe drinking water regulations when it is no longer intended for use on a temporary, seasonal or permanent basis, no longer in working order or poses a potential threat to water quality. Plan approval prior to the removal of this equipment is REQUIRED unless written agreement from the director to the public water system indicates plan approval is not REQUIRED.	6109.04'	State REQUIRED					X
3745-91-03	A3	REQUIRE	Be issued in a manner consistent with section 4733.14 of the Revised Code by a registered professional engineer when REQUIRED by paragraph (B) or (C) of this rule.	6109.04'	State REQUIRED					
3745-91-03	B	REQUIRE	The following types of plans REQUIRED pursuant to rule 3745-91-02 of the Administrative Code SHALL be prepared by a registered professional engineer and issued in a manner consistent with section 4733.14 of the Revised Code:	6109.04'	State REQUIRED					
3745-91-03	C	REQUIRE	In addition to the specific types of plans in paragraph (B) of this rule, the director may REQUIRE other plans to be prepared and issued in a manner consistent with section 4733.14 of the Revised Code by a registered professional engineer to protect the public welfare or to safeguard life, health or property.	6109.04'	State REQUIRED					X
3745-91-03	D	REQUIRE	The director may REQUIRE a demonstration of knowledge and experience by the designer for projects containing a high degree of complexity, non-standard technology, unusual features or deviations from standards and guidelines used by the agency.	6109.04'	State REQUIRED					X
3745-91-03	E	REQUIRE	The following types of plans REQUIRED pursuant to rule 3745-91-02 of the Administrative Code may be prepared by a qualified individual knowledgeable in the field or scope of project other than a registered professional engineer unless the plans involve the expenditure of public funds in excess of five thousand dollars:	6109.04'	State REQUIRED					
3745-91-04	D	REQUIRE	Be prepared in a legible and organized manner to permit easy reference. Separate specifications are not REQUIRED if facilities and equipment are adequately specified on the plan drawings.	6109.04'	State REQUIRED					
3745-91-05	N/A	REQUIRE	The data sheet SHALL be on a form provided by the director and SHALL include information such as the title of the project, project location, identification of the ultimate owner, identification of the designer, estimated construction cost, basis of design, and such other information as may be REQUIRED. Additional information may be REQUIRED depending upon the type and complexity of the project under review.	6109.04'	State REQUIRED					
3745-91-06	N/A	REQUIRE	The supporting information REQUIRED by this rule may vary depending on the type and complexity of the project and SHALL, at a minimum, include:	6109.04'	State REQUIRED					
3745-91-06	B	REQUIRE	A copy of the results of any REQUIRED chemical, bacteriological, radiological, or other analyses performed on the raw or finished water;	6109.04'	State REQUIRED					
3745-91-06	D3	REQUIRE	A copy of the log of the well, and a copy of the results of the pumping tests performed on the well. Test pumping and sampling for chemical and radiological analyses are REQUIRED unless waived by the director.	6109.04'	State REQUIRED					X
3745-91-06	E	REQUIRE	A capability assurance plan, if REQUIRED by Chapter 3745-87 of the Administrative Code.	6109.04'	State REQUIRED					
3745-91-07	D	REQUIRE	Accompany the plan drawings and other documents REQUIRED by this chapter of the Administrative Code when they are submitted for review;	6109.04'	State REQUIRED					
3745-91-07	E	REQUIRE	Include the name, mailing address, and telephone number of the owner or other person with whom contact can be made if further information is REQUIRED.	6109.04'	State REQUIRED					
3745-91-08	C	REQUIRE	If an application is complete, but plans are not approvable, the applicant SHALL be so notified. Such notice may be accompanied by a statement of alterations or revisions necessary for approval, or the director may, in the alternative, disapprove the plans. A revised application SHALL be made in the same manner as REQUIRED by this chapter of the Administrative Code for original application, or as directed in the notice.	6109.04'	State REQUIRED					X
3745-91-08	E	REQUIRE	Plans that REQUIRE an escrow under section 6109.08 of the Revised Code SHALL not be approved until compliance with said section and Chapter 3745-92 of the Administrative Code is achieved. Compliance with said section and chapter are not REQUIRED until the applicant is notified that the plans will be approved upon compliance with said section and chapter. If compliance does not occur within thirty days following receipt of such notice, the director may return the application as incomplete.	6109.04'	State REQUIRED					X

3745-91-09	G	REQUIRE	No person SHALL construct or install a public water system, or make any substantial change in a public water system, as defined in rule 3745-91-01 of the Administrative Code, which is not in accordance with plans approved by the director. Requests for substantial changes from approved plans SHALL be made in advance of any construction work that will be affected by such changes, and SHALL allow sufficient time for review and approval by the director. A request for substantial change SHALL be made in the same manner as REQUIRED by this chapter of the Administrative Code.	6109.04'	State REQUIRED				X
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OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-92-02	Intro	SHALL	If the system for which an application is made under rule 3745-91-02 of the Administrative Code is a community water system which serves or will serve fewer than five hundred service connections, and the system is not owned and operated by a public entity, or a system regulated by the public utilities commission, evidence SHALL be submitted prior to approval under said rule showing the following:	6109.04	State Required				
3745-92-02	(A)	REQUIRED	That the owner or operator has provided financial assurance, in a form acceptable to the director, in the amount REQUIRED by section 6109.08 of the Revised Code.	6109.04	State Required				
3745-92-02	(B)	SHALL	The name and location of the escrowee, which SHALL be a bank or other institution approved in writing by the director.	6109.04	State Required				
3745-92-02	(C)	SHALL	A copy of the financial assurance, the terms of which SHALL ensure compliance with the REQUIREments of this chapter and section 6109.08 of the Revised Code.	6109.04	State Required				
3745-92-03	Intro	SHALL	The amount provided in financial assurance SHALL be one hundred thousand dollars unless the cost of the completed community water system as estimated by the engineer responsible for the design of the project is less than six hundred sixty-six thousand six hundred sixty-six dollars, in which case the amount of financial assurance SHALL be fifteen per cent of the estimated cost.	6109.04	State Required				X
3745-92-03	Intro	SHALL	Whenever the executed contracts for construction, installation, or modification of the system or part thereof, including increases due to change orders, show a cost different from that of the above estimate, the total amount of financial assurance SHALL be increased or decreased so that the financial assurance is not less than fifteen per cent of the contract amount including increases due to change orders, or one hundred thousand dollars if such contract amount is six hundred sixty-six thousand six hundred sixty-six dollars or more.	6109.04	State Required				X
3745-92-03	Intro	SHALL	No work SHALL be performed under such contract when the amount of financial assurance is less than the amount REQUIRED to be deposited by this rule, without prior written consent of the director.	6109.04	State Required				
3745-92-03	Intro	REQUIRED	No work SHALL be performed under such contract when the amount of financial assurance is less than the amount REQUIRED to be deposited by this rule, without prior written consent of the director.	6109.04	State Required				
3745-92-04	(A)	SHALL	The escrow agreement SHALL be irrevocable unless released by the director upon a showing that the system or part thereof for which the escrow deposit is made:	6109.04	State Required				
3745-92-04	(A)(3)	REQUIRED	Any other circumstances if the director determines that retention of the escrow deposit is no longer REQUIRED under section 6109.08 of the Revised Code.	6109.04	State Required				
3745-92-04	(B)	SHALL	If there is a change of ownership of the system and a release of the escrow agreement pursuant to paragraph (A) of this rule, the escrow deposit SHALL be released to the new owner.	6109.04	State Required				X
3745-92-05	(A)	REQUIRED	If the director finds that a system or part thereof for which financial assurance is REQUIRED under division (A) of section 6109.08 of the Revised Code is being operated but is not properly constructed, maintained, repaired or operated, the director may order the owner and the operator of the system or part thereof to correct the deficiencies in construction, maintenance, repair or operation.	6109.04	State Required				
3745-92-05	(A)	REQUIRED	If the order REQUIRED construction, installation, or modification, the owner or operator, within ninety days of receipt of such order or within such additional period as the director may approve, SHALL submit plans for correcting the deficiency pursuant to rule 3745-91-02 of the Administrative Code.	6109.04	State Required				
3745-92-05	(A)	SHALL	If the order REQUIRED construction, installation, or modification, the owner or operator, within ninety days of receipt of such order or within such additional period as the director may approve, SHALL submit plans for correcting the deficiency pursuant to rule 3745-91-02 of the Administrative Code.	6109.04	State Required				
3745-92-05	(B)	SHALL	The director SHALL authorize use of funds from the financial assurance as necessary to enable compliance with the order.	6109.04	State Required				X

3745-92-05	(B)	SHALL	Upon prior written approval of the director the water system SHALL make or cause payment to be made to persons who have performed work under contract with the owner or the owner's agent, or a designated representative, for the purpose of correcting such deficiencies in construction, maintenance, repair or operation, as ordered by the director.	6109.04	State Required				
3745-92-05	(B)	SHALL	When funds from the financial assurance are used, the owner or the operator of the system or part thereof SHALL replace such funds within six months of use.	6109.04	State Required				
3745-92-05	(C)	SHALL	If the system is owned by multiple owners of lots served by the system, the "owner" SHALL be considered notified for purposes of this rule when notice of the director's order is sent by first-class mail to the mailing address of the association representing the lot owners or to all the known officers of such association, or, if neither of these methods is possible, to the last known address of each lot owner.	6109.04	State Required				
3745-92-05	Intro	prohibits	Nothing in this chapter of the Administrative Code <u>prohibits</u> the bank or savings institution holding the escrow deposit from charging the person requesting an escrow a fee for its services.	6109.04	State Required				

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-95-01	A3	SHALL	"Auxiliary water system" means any water system on or available to the premises other than the public water system. These auxiliary water systems SHALL include used water or water from a source other than the public water system, such as wells, cisterns or open reservoirs that are equipped with pumps or other prime movers, including gravity.	6109.04'	State REQUIRED				
3745-95-01	D4	SHALL	"Double check-detector check valve assembly" means a specially designed assembly composed of a line-size approved double check valve assembly with a specific bypass water meter and a meter-sized approved double check valve assembly. The meter SHALL register accurately for only very low rates of flow and SHALL show a registration for all rates of flow.	6109.04'	State REQUIRED				
3745-95-01	R1	SHALL	"Reduced pressure principle backflow prevention assembly" means an assembly containing a minimum of two independently acting check valves together with an automatically operated pressure differential relief valve located between the two check valves. During normal flow and at the cessation of normal flow, the pressure between these two checks SHALL be less than the supply pressure. In case of leakage of either check valve, the differential relief valve, by discharging to the atmosphere, SHALL operate to maintain the pressure between the check valves at less than the supply pressure. The unit MUST include tightly closing shutoff valves located at each end of the assembly, and each assembly SHALL be fitted with properly located test cocks.	6109.04'	State REQUIRED				
3745-95-01	R2	SHALL	"Reduced pressure principle-detector assembly" means a specially designed assembly composed of a line-size approved reduced pressure principle backflow prevention assembly with a specific bypass water meter and a meter sized approved reduced pressure principle backflow prevention assembly. The meter SHALL register accurately for only very low rates of flow and SHALL show a registration for all rates of flows.	6109.04'	State REQUIRED				
3745-95-02	A	SHALL	No person SHALL install or maintain a water service connection to any premises where actual or potential cross-connections to a public water system or a consumer's water system may exist unless such actual or potential cross-connections are abated or controlled to the satisfaction of the supplier of water.	6109.04'	State REQUIRED				
3745-95-02	B	SHALL	No person SHALL install or maintain a connection between a public water system or consumer's water system and an auxiliary water system unless the auxiliary water system, the method of connection and the use of such system have been approved by the supplier of water and by the director as REQUIRED by section 6109.13 of the Revised Code.	6109.04'	State REQUIRED				X
3745-95-02	C	SHALL	A public water system SHALL develop and implement a backflow prevention and cross-connection control program consistent with this chapter.	6109.04'	State REQUIRED				
3745-95-03	A	SHALL	The supplier of water SHALL conduct or cause to be conducted an initial assessment and periodic surveys or investigations of water use practices within a consumer's premises to determine whether there are actual or potential cross-connections to the consumer's water system through which contaminants or pollutants could backflow into the public water system or determine where in the judgment of the supplier of water, a pollutional system, health or severe health hazard to the public water system exists. To meet this REQUIREment, the supplier of water SHALL conduct or cause to be conducted an on-site investigation of all premises at least every five years to identify changes in water use practices at the consumer's property so that new or increased hazards to the water supply are identified and mitigated.	6109.04'	State REQUIRED				
3745-95-03	B	SHALL	The supplier of water, or the supplier's authorized representative, SHALL have the right to enter premises served by the public water system at all reasonable times for the purpose of making surveys and investigations of water use practices within the premises.	6109.04'	State REQUIRED				
3745-95-03	C	SHALL	On request by the supplier of water, or the supplier's authorized representative, the consumer SHALL furnish the supplier, or the supplier's authorized representative, information on water use practices within the consumer's premises.	6109.04'	State REQUIRED				
3745-95-04	A	SHALL	An approved backflow preventer SHALL be installed on each service line to a consumer's water system serving premises, where in the judgment of the supplier of water or the director, a pollutional, system, health or severe health hazard to the public water system exists.	6109.04'	State REQUIRED				X
3745-95-04	B	SHALL	An approved backflow preventer SHALL be installed on each service line to a consumer's water system serving premises where any of the following conditions exist:	6109.04'	State REQUIRED				
3745-95-04	B2	SHALL	Premises on which any substance is handled in such a fashion as to create an actual or potential hazard to a public water system. This SHALL include premises having sources or systems containing process fluids.	6109.04'	State REQUIRED				
3745-95-04	C1	SHALL	A physical separation SHALL be maintained between the public water system or a consumer's water system and the auxiliary water system as REQUIRED by paragraph (B) of rule 3745-95-02 of the Administrative Code.	6109.04'	State REQUIRED				
3745-95-04	C2	SHALL	An approved backflow preventer SHALL be installed on each service connection serving the consumer's water system, unless the supplier of water does all of the following:	6109.04'	State REQUIRED				

3745-95-04	D	SHALL	An approved backflow preventer SHALL be installed on each service line to a consumer's water system serving, but not necessarily limited to, the following types of facilities unless the director determines that no severe health, health, system or pollutional hazard to the public water system exists:	6109.04'	State REQUIRED					X
3745-95-04	E	SHALL	An approved backflow preventer SHALL be installed at any point of connection that is approved in accordance with paragraph (B) of rule 3745-95-02 of the Administrative Code between a public water system or a consumer's water system and an auxiliary water system, unless such auxiliary system is accepted as an additional source by the supplier of water and the source is approved by the director.	6109.04'	State REQUIRED					X
3745-95-05	A	SHALL	The type of protection REQUIRED under paragraphs (A), (B), (C) and (D) of rule 3745-95-04 of the Administrative Code SHALL depend on the degree of hazard which exists as follows:	6109.04'	State REQUIRED					
3745-95-05	A1	SHALL	An approved air gap separation SHALL be installed where a public water system may be contaminated with substances that could cause a severe health hazard.	6109.04'	State REQUIRED					
3745-95-05	A2	SHALL	An approved air gap separation, an approved reduced pressure principle backflow prevention assembly or an approved reduced pressure detector check assembly SHALL be installed where a public water system may be contaminated with any substance that could cause a system or health hazard.	6109.04'	State REQUIRED					
3745-95-05	A3	SHALL	An approved air gap separation, an approved reduced pressure principle backflow prevention assembly, an approved reduced pressure principle-detector check assembly, an approved double check valve assembly or an approved double check-detector check valve assembly SHALL be installed where a public water system may be contaminated with any substance that could cause a pollutional hazard.	6109.04'	State REQUIRED					
3745-95-05	B	SHALL	The type of protection REQUIRED under paragraph (E) of rule 3745-95-04 of the Administrative Code SHALL be an approved air gap separation or an approved interchangeable connection. A removable spool piece connection is not an acceptable method.	6109.04'	State REQUIRED					
3745-95-05	C1	SHALL	At premises where the auxiliary water system may be contaminated with substances that could cause a system, health or severe health hazard, a public water system or a consumer's water system SHALL be protected against backflow by installation of an approved reduced pressure principle backflow prevention assembly or an approved reduced pressure principle-detector check assembly.	6109.04'	State REQUIRED					
3745-95-05	C2	SHALL	At all other premises, a public water system or a consumer's water system SHALL be protected against backflow by installation of an approved reduced pressure principle backflow prevention assembly, an approved reduced pressure principle-detector check assembly, an approved double check valve assembly or an approved double check-detector check valve assembly.	6109.04'	State REQUIRED					
3745-95-05	C3	SHALL	A public water system or a consumer's water system SHALL be the primary source of water for the fire protection system.	6109.04'	State REQUIRED					
3745-95-05	C4	SHALL	The fire protection system SHALL be normally filled with water from a public water system or a consumer's water system.	6109.04'	State REQUIRED					
3745-95-05	C5	SHALL	The water in the fire protection system SHALL be used for fire protection only, with no other use of water from the fire protection system downstream from the approved backflow prevention device.	6109.04'	State REQUIRED					
3745-95-06	A	SHALL	Any containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code SHALL be of a model or construction approved by the supplier of water and conform to at least one of the following standards:	6109.04'	State REQUIRED					
3745-95-06	B	SHALL	Any containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code SHALL be installed at a location and in a manner approved by the supplier of water and SHALL be installed at the expense of the water consumer. In addition, any backflow prevention device REQUIRED by paragraphs (B) and (C) of rule 3745-95-05 of the Administrative Code SHALL be installed at a location and in a manner approved by the director as REQUIRED by section 6109.13 of the Revised Code.	6109.04'	State REQUIRED					X
3745-95-06	C	SHALL	It SHALL be the duty of the water consumer to maintain any containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code in proper working order and in continuous operation.	6109.04'	State REQUIRED					
3745-95-06	C1	SHALL	The supplier of water SHALL retain authority over any containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code.	6109.04'	State REQUIRED					
3745-95-06	C2	SHALL	It SHALL be the duty of the supplier of water to see that the tests and inspections REQUIRED under this paragraph are made.	6109.04'	State REQUIRED					

3745-95-06	C3	SHALL	The consumer SHALL, on any premises on which any containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code are installed, have thorough inspections and operational tests made of the backflow preventers at the time of installation or repair, and as may be reasonably REQUIRED by the supplier of water or the director, but in all cases at least once every twelve months. These inspections and tests SHALL be at the expense of the water consumer and SHALL be performed by the supplier of water or a person approved by the supplier as qualified to inspect and test backflow preventers.	6109.04'	State REQUIRED					X
3745-95-06	C4	SHALL	These devices SHALL be repaired, overhauled or replaced at the expense of the consumer whenever they are found to be defective.	6109.04'	State REQUIRED					
3745-95-06	C5	SHALL	Records of such inspections, tests, repairs and overhaul SHALL be kept by the consumer and made available to the supplier of water.	6109.04'	State REQUIRED					
3745-95-06	C6	SHALL	The supplier of water SHALL maintain a paper or electronic record of inventory of survey, investigation and containment principle backflow preventer installation reports. Records of inspections, tests, repairs and overhauls related to the containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code SHALL be maintained by the supplier of water for a minimum of five years.	6109.04'	State REQUIRED					
3745-95-06	D	SHALL	The supplier of water SHALL inspect or cause to be inspected all installations where an approved connection exists between an auxiliary water system and the public water system or a consumer's water system at least once every twelve months and SHALL maintain an inventory of all such installations and inspection records. Such inventories and inspection records SHALL be made available during sanitary surveys and at other reasonable times. Paper or electronic inspection records SHALL be maintained by the supplier of water for a minimum of five years.	6109.04'	State REQUIRED					
3745-95-06	E	SHALL	Containment principle backflow preventers approved by the supplier of water and conforming to prior or subsequent editions of the standards cited in paragraph (A) of this rule, and which are properly maintained in accordance with paragraph (C) of this rule SHALL be excluded from the REQUIREments of paragraphs (A) and (B) of this rule if the supplier of water and the director are assured that the backflow preventer will satisfactorily protect the public water system.	6109.04'	State REQUIRED					X
3745-95-07	A	SHALL	No person SHALL install or maintain a water service connection where a booster pump has been installed, unless an approved method is in place and is operational to maintain a minimum suction pressure as prescribed in the following:	6109.04'	State REQUIRED					
3745-95-07	A1	SHALL	For booster pumps not intended to be used for fire suppression, no person SHALL install or maintain a water service connection to any premises where a booster pump has been installed on the service line to or within such premises, unless such booster pump is equipped with a low pressure cut-off designed to shut-off the booster pump when the pressure in the service line on the suction side of the pump drops to ten pounds per square inch gauge or less.	6109.04'	State REQUIRED					
3745-95-07	A2	SHALL	For booster pumps used for fire suppression, also referred to as fire pumps , no person SHALL install or maintain a water service connection to any premises where a fire pump has been installed on the service line to or within such premises, unless the pump is equipped with one of the following:	6109.04'	State REQUIRED					
3745-95-07	B	SHALL	The water consumer SHALL maintain the low pressure cut-off device, the low suction throttling valve, or the variable speed suction limiting control in proper working order and certify to the supplier of water, at least once every twelve months that the minimum suction pressure sustaining method is operable and maintained in continuous operation.	6109.04'	State REQUIRED					
3745-95-07	C	SHALL	The supplier of water SHALL maintain electronic or paper records of inventory of booster pump installations. Electronic or paper records certifying operation MUST be retained for a period of five years.	6109.04'	State REQUIRED					
3745-95-07	D	SHALL	The provisions of this rule SHALL be followed notwithstanding inconsistent provisions in the " Great Lakes-Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers' Recommended Standards for Water Works" (2012).	6109.04'	State REQUIRED					
3745-95-08	A	SHALL	After reasonable notice to the occupant thereof, the supplier of water SHALL deny or discontinue the water service to any premises wherein any of the following occurs:	6109.04'	State REQUIRED					
3745-95-08	B	SHALL	Water service to such premises SHALL not be restored until the consumer has corrected or eliminated such conditions or defects in conformance with this chapter , and to the satisfaction of the supplier of water.	6109.04'	State REQUIRED					
3745-95-09	A2	SHALL	Yard hydrants with weep holes not used for human consumption installed on a public water system, and those installed on a consumer's water system, SHALL have an appropriate backflow prevention assembly on the service line to protect the public water system. Yard hydrants with weep holes installed on public water systems SHALL be clearly labeled as "non-potable" or "not for human consumption."	6109.04'	State REQUIRED					

3745-95-01	R1	MUST	"Reduced pressure principle backflow prevention assembly" means an assembly containing a minimum of two independently acting check valves together with an automatically operated pressure differential relief valve located between the two check valves. During normal flow and at the cessation of normal flow, the pressure between these two checks SHALL be less than the supply pressure. In case of leakage of either check valve, the differential relief valve, by discharging to the atmosphere, SHALL operate to maintain the pressure between the check valves at less than the supply pressure. The unit MUST include tightly closing shutoff valves located at each end of the assembly, and each assembly SHALL be fitted with properly located test cocks.	6109.04'	State REQUIRED				
3745-95-03	A2	MUST	In lieu of conducting an on-site investigation of each residential premise, the supplier of water may institute an on-going educational campaign to inform consumers of common backflow hazards created during residential water use and provide a reporting mechanism for suspected cross-connections. An education campaign may use local media and advertising resources, but MUST also include information delivered, either electronically or hard copy, to each residential service connection at least annually.	6109.04'	State REQUIRED				
3745-95-07	A2a	MUST	A low suction throttling valve which is a pilot-operated valve installed in the discharge piping that maintains positive pressure in the suction piping, while monitoring pressure in the suction piping through a sensing line. The valve MUST throttle the discharge of the pump when necessary so that suction pressure will not be reduced below ten pounds per square inch gauge while the pump is operating.	6109.04'	State REQUIRED				
3745-95-07	C	MUST	The supplier of water SHALL maintain electronic or paper records of inventory of booster pump installations. Electronic or paper records certifying operation MUST be retained for a period of five years.	6109.04'	State REQUIRED				
3745-95-09	A1	prohibit	Yard hydrants with weep holes used for human consumption installed on a public water system are prohibited unless the weep holes are sealed.	6109.04'	State REQUIRED				
3745-95-09	B	prohibit	Sanitary yard hydrants that do not have weep holes, such as those that meet the REQUIREments of the "American Society of Sanitary Engineers (ASSE) standard 1057, Performance REQUIREments for Freeze Resistant Yard Hydrants with Backflow Protection" (2001), are not prohibited provided:	6109.04'	State REQUIRED				
3745-95-02	B	REQUIRE	No person SHALL install or maintain a connection between a public water system or consumer's water system and an auxiliary water system unless the auxiliary water system, the method of connection and the use of such system have been approved by the supplier of water and by the director as REQUIRED by section 6109.13 of the Revised Code.	6109.04'	State REQUIRED				X
3745-95-03	A	REQUIRE	To meet this REQUIREment, the supplier of water SHALL conduct or cause to be conducted an on-site investigation of all premises at least every five years to identify changes in water use practices at the consumer's property so that new or increased hazards to the water supply are identified and mitigated.	6109.04'	State REQUIRED				
3745-95-03	A1	REQUIRE	In lieu of conducting an on-site investigation of all premises every five years, the supplier of water can document, in writing, an alternate, on-going, methodology to identify changes in water use practices that may represent a new or increased hazard to the public water supply. An on-site investigation is REQUIRED when a potential new or increased hazard is suspected to confirm the degree of risk and how it will be addressed. Information obtained through a water use survey questionnaire or in coordination with the local building, zoning, health, fire protection and other licensing agencies may be used as an indicator of when an on-site investigation should be conducted. Other triggers, such as a request to the supplier of water for a new or additional service line, or an additional or larger meter should warrant an on-site investigation.	6109.04'	State REQUIRED				
3745-95-04	C1	REQUIRE	A physical separation SHALL be maintained between the public water system or a consumer's water system and the auxiliary water system as REQUIRED by paragraph (B) of rule 3745-95-02 of the Administrative Code.	6109.04'	State REQUIRED				
3745-95-04	C2a	REQUIRE	Determines, on a case-by-case basis, that the installation of an approved backflow preventer on a service connection is not REQUIRED in consideration of factors including, but not limited to, the past history of cross connections being established or re-established on the premises, the ease or difficulty of connecting the auxiliary water system with the public water system on the premises, the presence or absence of contaminants on the property or other risk factors.	6109.04'	State REQUIRED				
3745-95-04	C2b	REQUIRE	REQUIREs the consumer to sign an agreement which specifies the penalties, including those set forth in rule 3745-95-08 of the Administrative Code, for creating a connection between the public water system and the auxiliary water system.	6109.04'	State REQUIRED				
3745-95-05	A	REQUIRE	The type of protection REQUIRED under paragraphs (A), (B), (C) and (D) of rule 3745-95-04 of the Administrative Code SHALL depend on the degree of hazard which exists as follows:	6109.04'	State REQUIRED				
3745-95-05	B	REQUIRE	The type of protection REQUIRED under paragraph (E) of rule 3745-95-04 of the Administrative Code SHALL be an approved air gap separation or an approved interchangeable connection. A removable spool piece connection is not an acceptable method.	6109.04'	State REQUIRED				
3745-95-06	A	REQUIRE	Any containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code SHALL be of a model or construction approved by the supplier of water and conform to at least one of the following standards:	6109.04'	State REQUIRED				

3745-95-06	B	REQUIRE	Any containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code SHALL be installed at a location and in a manner approved by the supplier of water and SHALL be installed at the expense of the water consumer. In addition, any backflow prevention device REQUIRED by paragraphs (B) and (C) of rule 3745-95-05 of the Administrative Code SHALL be installed at a location and in a manner approved by the director as REQUIRED by section 6109.13 of the Revised Code.	6109.04'	State REQUIRED					X
3745-95-06	C	REQUIRE	It SHALL be the duty of the water consumer to maintain any containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code in proper working order and in continuous operation.	6109.04'	State REQUIRED					
3745-95-06	C1	REQUIRE	The supplier of water SHALL retain authority over any containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code.	6109.04'	State REQUIRED					
3745-95-06	C2	REQUIRE	It SHALL be the duty of the supplier of water to see that the tests and inspections REQUIRED under this paragraph are made.	6109.04'	State REQUIRED					
3745-95-06	C3	REQUIRE	The consumer SHALL, on any premises on which any containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code are installed, have thorough inspections and operational tests made of the backflow preventers at the time of installation or repair, and as may be reasonably REQUIRED by the supplier of water or the director, but in all cases at least once every twelve months. These inspections and tests SHALL be at the expense of the water consumer and SHALL be performed by the supplier of water or a person approved by the supplier as qualified to inspect and test backflow preventers.	6109.04'	State REQUIRED					X
3745-95-06	C6	REQUIRE	The supplier of water SHALL maintain a paper or electronic record of inventory of survey, investigation and containment principle backflow preventer installation reports. Records of inspections, tests, repairs and overhauls related to the containment principle backflow preventer REQUIRED by rules 3745-95-04 and 3745-95-05 of the Administrative Code SHALL be maintained by the supplier of water for a minimum of five years.	6109.04'	State REQUIRED					
3745-95-07	A3	REQUIRE	Booster pumps used for fire suppression, also referred to as fire pumps, installed prior to August 8, 2008, which are equipped with a low pressure cut-off as defined in paragraph (A)(1) of this rule, are not REQUIRED to be modified solely for the purpose of meeting the new methods accepted after this date, under paragraph (A)(2) of this rule.	6109.04'	State REQUIRED					
3745-95-08	A1	REQUIRE	A backflow preventer REQUIRED by this chapter is not installed, tested and maintained in a manner acceptable to the supplier of water.	6109.04'	State REQUIRED					
3745-95-08	A4	REQUIRE	A low pressure cut-off, low suction throttling valve or variable speed suction limiting control, as REQUIRED by rule 3745-95-07 of the Administrative Code, is not installed or maintained in working order.	6109.04'	State REQUIRED					

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	State or Fed Law?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-96-01	A	SHALL	This chapter establishes the minimum REQUIREments for the content of the annual report that a community water system SHALL deliver to its customers.	6109.04	Federal REQUIRED	40 CFR 141.151	X	X	
3745-96-01	A	SHALL	The report SHALL contain information on the quality of the water delivered by the system and characterize the risks from exposure to contaminants detected in the drinking water in an accurate and understandable manner.	6109.04	Federal REQUIRED	40 CFR 141.151	X	X	
3745-96-01	E	SHALL	Each community water system SHALL deliver a report to its customers and meet the REQUIREments of paragraph (B) of rule 3745-96-04 of the Administrative Code by July first annually.	6109.04	Federal REQUIRED	40 CFR 141.152	X	X	
3745-96-01	E	SHALL	Each report SHALL contain data collected during, or prior to, the previous calendar year as prescribed in paragraph (D)(3) of rule 3745-96-02 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.152	X	X	
3745-96-01	F	SHALL	A new community water system SHALL deliver its first report by July first of the year after its first full calendar year in operation and annually thereafter.	6109.04	Federal REQUIRED	40 CFR 141.152	X	X	
3745-96-01	G	SHALL	Any public water system as defined in rule 3745-81-01 of the Administrative Code that sells water to a community water system SHALL deliver the applicable information REQUIRED in rules 3745-96-02 and 3745-96-03 of the Administrative Code to the buyer, or consecutive water system, by April first annually.	6109.04	Federal REQUIRED	40 CFR 141.152	X	X	
3745-96-01	G	SHALL	Delivered information SHALL include all source water information, information on detected contaminants, information on cryptosporidium and radon, and compliance with state primary drinking water rules as described in rule 3745-96-02 of the Administrative Code.	6109.04	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-01	H	SHALL	Consecutive water systems SHALL include in their report all information received from the wholesaler, including all source water information, detected contaminants from the plant tap, cryptosporidium and radon information, and wholesaler violation information.	6109.04	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	A	SHALL	Each community water system SHALL provide to customers an annual report that contains the information specified in this rule and rule 3745-96-03 of the Administrative Code.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	B(1)	SHALL	Each report SHALL identify the sources of the water delivered by the community water system by providing information on each of the following as applicable	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	B(2)	SHALL	When a source water assessment has been completed, the report SHALL notify consumers of the availability of this information and the means to obtain it.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	B(2)	SHALL	Where a community water system has received a source water assessment summary from the director, the report SHALL include a brief summary of the community water system's susceptibility to potential sources of contamination, using language provided by the director or equivalent language acceptable to the director.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	C(1)	SHALL	Each report SHALL include the following definitions	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	C(2)	SHALL	A report that contains data on contaminants the state regulates SHALL include the following definitions as applicable	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	C(2)(b)	SHALL	"Action level" means the concentration of a contaminant which, if exceeded, triggers treatment or other REQUIREments which a water system SHALL follow.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	C(3)	SHALL	A report that contains information regarding a level one or level two assessment REQUIRED under rules 3745-81-50 to 3745-81-55 of the Administrative Code SHALL include the following definitions as applicable	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	D(2)	SHALL	The data relating to these contaminants SHALL be displayed in one table or in several adjacent tables	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	D(2)	SHALL	Any additional monitoring results which a community water system chooses to include in its report SHALL be displayed separately.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	D(3)	SHALL	The data SHALL be derived from data collected to comply with U.S. EPA and state monitoring and analytical REQUIREments during the previous calendar year with the following exception	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	D(3)(a)	SHALL	Where a system is allowed to monitor for regulated contaminants less often than once a year, the table SHALL include the date and results of the most recent sampling and the report SHALL include a brief statement indicating that the data presented in the report are from the most recent testing done in accordance with the regulations. No data older than five years SHALL be included.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	D(4)	SHALL	For detected regulated contaminants (listed in the appendix to this rule), the tables SHALL contain all of the following information	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	D(4)(c)	SHALL	If there is no MCL for a detected contaminant, the table SHALL indicate that there is a MRDL, MRDLG, treatment technique or specify the action level applicable to that contaminant, and the lead threshold level. The report SHALL include the definitions for MRDL, MRDLG, treatment technique or action level, as applicable, or lead threshold level specified in paragraph (C)(2) of this rule.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	
3745-96-02	D(4)(d)(i)	SHALL	Beginning one year after the applicable compliance date identified in rule 3745-81-24 of the Administrative Code, for the MCLs for TTHM and HAA5 in paragraphs (B) and (C) of rule 3745-81-12 of the Administrative Code, systems SHALL include the highest locational running annual average for TTHM and HAA5 and the range of individual sample results for all monitoring locations expressed in the same units as the MCL. If more than one location exceeds the TTHM or HAA5 MCL, the system SHALL include the locational running annual averages for all locations that exceed the MCL.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X	X	

3745-96-02	D(4)(e)	SHALL	The report SHALL include an explanation of the reasons for measuring turbidity.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	D(4)(g)	SHALL	If the operator lacks specific information on the likely source, the report SHALL include one or more of the typical sources for that contaminant listed in the appendix to this rule which are most applicable to the system.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	D(6)	SHALL	The table SHALL clearly identify any data indicating violations of MCLs, MRDLs or treatment techniques and the report SHALL contain a clear and readily understandable explanation of the violation including: the length of the violation, the potential adverse health effects and actions taken by the system to address the violation. To describe the potential health effects, the community water system SHALL use the relevant language for the particular contaminant as specified in the appendix to this rule.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	D(7)	SHALL	For detected unregulated contaminants (without an MCL) for which monitoring is REQUIRED (except Cryptosporidium), the table SHALL contain the average and range at which the contaminant was detected.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	E(1)	SHALL	If the system has performed monitoring for Cryptosporidium, which indicates that Cryptosporidium may be present in the source water or the finished water, the report SHALL include	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	E(2)	SHALL	If the community water system has performed any monitoring for radon which indicates that radon may be present in the finished water, the report SHALL include both of the following:	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	F	SHALL	In addition to the REQUIREments set forth in paragraph (D)(6) of this rule, the report SHALL note any violation that occurred during the year covered by the report of any of the following, and include a clear and readily understandable explanation of the violation, any potential adverse health effects and the steps the community water system has taken to correct the violation	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	F(2)	SHALL	For systems which have failed to install adequate filtration or disinfection equipment or processes, or have had a failure of such equipment or processes which constitutes a violation, the report SHALL include the following language as part of the explanation of potential adverse health effects:	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	F(3)	SHALL	For systems which fail to take one or more actions prescribed by paragraph (D) of rule 3745-81-80 and rule 3745-81-81, 3745-81-82, 3745-81-83 or 3745-81-84 of the Administrative Code, the report SHALL include the applicable language of the appendix to this rule for lead, copper or both.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	F(4)	SHALL	For systems which violate the REQUIREments of rule 3745-81-17 of the Administrative Code, the report SHALL include the relevant language from the appendix to this rule.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	F(8)	SHALL	Any ground water system that receives notice from the director of a significant deficiency or notice from a laboratory of a fecal indicator-positive ground water source sample that is not invalidated under rule 3745-81-42 of the Administrative Code SHALL inform its customers of any significant deficiency that is uncorrected at the time of the next report or of any fecal indicator-positive ground water source sample in the next report. The system SHALL continue to inform the public annually until the director determines that particular significant deficiency is corrected or the fecal contamination in the ground water source is addressed in accordance with rule 3745-81-43 of the Administrative Code. If REQUIRED, a system with significant deficiencies that have been corrected before the next report is issued SHALL inform its customers of the significant deficiency, how the deficiency was corrected and the date of correction in accordance with this paragraph. Each report SHALL include all of the following elements:	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	G(1)	SHALL	The report SHALL contain a brief explanation regarding contaminants which may reasonably be expected to be found in drinking water, including bottled water. This explanation SHALL include the following language:	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	G(1)(c)	SHALL	Food and drug administration regulations establish limits for contaminants in bottled water which SHALL provide the same protection for public health.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	G(2)	SHALL	The report SHALL include the telephone number of the owner, operator or designee of the community water system as a source of additional information concerning the report.	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	G(3)	SHALL	In community water systems that serve a large proportion of non-english speaking residents, defined as ten per cent or more of the residents speak the same non-english language, the report SHALL include one of the following:	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	G(4)	SHALL	The report SHALL include information about opportunities for public participation in decisions that may affect the quality of the water when such opportunities are routinely scheduled by the community water system (e.g., time and place of regularly scheduled board meetings).	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	G(5)	SHALL	The report SHALL include information on the status of the system's license to operate issued pursuant to Chapter 3745-84 of the Administrative Code.	6109.04, 6109.012					
3745-96-02	G(7)(a)	SHALL	Any public water system REQUIRED to comply with the level one assessment REQUIREment or level two assessment REQUIREment in accordance with rule 3745-81-53 of the Administrative Code that is not due to an E. coli MCL violation SHALL include in the report the following text, as applicable, filling in the blanks accordingly:	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	G(7)(a)(iv)	SHALL	Any system that has failed to complete all the REQUIRED assessments or correct all identified significant deficiencies, is in violation of the treatment technique REQUIREment and SHALL also include one or both of the following statements, as applicable	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	G(7)(b)	SHALL	Any system REQUIRED to conduct a level two assessment due to an E. coli MCL violation SHALL include in the report the following text, filling in the blanks accordingly, and SHALL include the text in paragraph (G)(7)(b)(iii) of this rule if applicable	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		

3745-96-02	G(7)(c)	SHALL	If a public water system detects E. coli and has violated the E. coli MCL, in addition to completing the table as REQUIRED in paragraph (D) of this rule, the system SHALL include one or more of the following	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-02	G(7)(b)(iii)	MUST	Any system that has failed to complete the REQUIRED assessment or correct all identified significant deficiencies, is in violation of the treatment technique REQUIREment and MUST also include one or both of the following statements, as applicable	6109.04, 6109.012	Federal REQUIRED	40 CFR 141.153	X		
3745-96-03	A	SHALL	All reports SHALL prominently display the following language: "Some people may be more vulnerable to contaminants in drinking water than the general population.	6109.04	Federal REQUIRED	40 CFR 141.154	X		
3745-96-03	B	SHALL	A community water system that detects arsenic above 0.005 mg/L and up to and including 0.010 mg/L SHALL include the following informational statement: "While your drinking water meets EPA's standards for arsenic, it does contain low levels of arsenic.	6109.04	Federal REQUIRED	40 CFR 141.154	X		
3745-96-03	C	SHALL	A community water system which detects nitrate at levels above five mg/L, and up to and including ten mg/L SHALL include an informational statement about the impacts of nitrate on children using the following language: "Nitrate in drinking water at levels above ten mg/L is a health risk for infants of less than six months of age.	6109.04	Federal REQUIRED	40 CFR 141.154	X		
3745-96-03	D	SHALL	All community water systems SHALL include the following lead-specific information about lead in drinking water and its effects on children: "If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children.	6109.04	Federal REQUIRED	40 CFR 141.154	X		
3745-96-03	E	SHALL	Community water systems that detect total trihalomethanes (TTHMS) monitored and calculated as an annual average under the provisions in rule 3745-81-24 of the Administrative Code, SHALL include health effects language prescribed by the appendix to rule 3745-96-02 of the Administrative Code if that level is above the MCL of 0.080 mg/L, even if the water system is not yet REQUIRED to comply with the MCL.	6109.04	Federal REQUIRED	40 CFR 141.154	X		
3745-96-04	A	SHALL	Each community water system SHALL mail or otherwise directly deliver one copy of the report to each customer.	6109.04	Federal REQUIRED	40 CFR 141.155	X		
3745-96-04	B	SHALL	The community water system SHALL make a good faith effort to reach consumers who do not receive water bills. A good faith effort will be tailored to the consumers who are served by the community water system but are not bill-paying customers, such as renters and workers. A good faith effort to reach consumers SHALL include a mix of methods appropriate to the particular system such as: posting the reports on the internet; mailing to postal patrons in metropolitan areas; advertising the availability of the report in the news media; publication in a local newspaper; posting in public places such as cafeterias or lunch rooms of public buildings; delivery of multiple copies for distribution by single-biller customers such as apartment buildings, condominium complexes and large private employers; and delivery to community organizations	6109.04	Federal REQUIRED	40 CFR 141.155	X		
3745-96-04	C	SHALL	By July first annually, each community water system SHALL provide to the director all of the following information:	6109.04	Federal REQUIRED	40 CFR 141.155	X		
3745-96-04	D	SHALL	Each community water system SHALL make its reports available to the public upon request.	6109.04	Federal REQUIRED	40 CFR 141.155	X		
3745-96-04	E	SHALL	Each community water system serving one hundred thousand or more consumers SHALL post its current year's report to a publicly-accessible site on the Internet for at least a one year period.	6109.04	Federal REQUIRED	40 CFR 141.155	X		
3745-96-04	F	SHALL	Any community water system subject to this chapter SHALL retain copies of its consumer confidence report for no less than three years.	6109.04	Federal REQUIRED	40 CFR 141.155	X		