

TITLE 10 -- DEPARTMENT OF NATURAL RESOURCES
DIVISION 60 – SAFE DRINKING WATER COMMISSION
Chapter 4 – Contaminant Levels and Monitoring

PROPOSED AMENDMENT

10 CSR 60-4.025 Ground Water Rule Monitoring and Treatment Technique Requirements.

The commission is amending subsection (3)(A).

PURPOSE: This amendment adopts Revisions to the Total Coliform Rule (RTCR) requirements for triggered source water monitoring. Very small ground water systems may use a repeat sample to meet the requirements of both the RTCR and this rule if the department approves the use of E. coli as a fecal indicator for source water monitoring and approves the use of a single sample for meeting both the triggered source water monitoring requirements and the repeat monitoring requirements in the RTCR.

(3) Ground Water Source Microbial Monitoring.

(A) Triggered Source Water Monitoring.

1. General requirements. A ground water system must conduct triggered source water monitoring if the following conditions exist:

A. The system does not provide at least 4-log treatment of viruses (**using inactivation, removal, or a State-approved combination of 4-log virus inactivation and removal**) before or at the first customer for each ground water source; and **either**

B. The system is notified that a sample collected under 10 CSR 60-4.020(1) is total coliform-positive and the sample is not invalidated under 10 CSR 60-4.020(3) **until March 31, 2016, or**

C. The system is notified that a sample collected under 10 CSR 60-4.022(4)-(7) is total coliform-positive and the sample is not invalidated under 10 CSR 60-4.022(3)(C), beginning April 1, 2016.

2. Sampling requirements. A ground water system must collect, within twenty-four (24) hours of notification of the total coliform-positive sample, at least one (1) ground water source sample from each ground water source in use at the time the total coliform-positive sample was collected under 10 CSR 60-4.020(1), **until March 31, 2016, or collected under 10 CSR 60-4.022(4)-(7) beginning April 1, 2016, except as provided in subparagraph (3)(A)2.B. of this rule.**

A. The department may extend the twenty-four (24)-hour time limit on a case-by-case basis if the system cannot collect the ground water source water sample within twenty-four (24) hours due to circumstances beyond its control. In the case of an extension, the department will specify how much time the system has to collect the sample.

B. If approved by the department, systems with more than one (1) ground water source may meet the requirements of this subparagraph by sampling a representative ground water source or sources. If directed by the department, systems must submit for department approval a triggered source water monitoring plan that identifies one (1) or more ground water sources that are representative of each monitoring site in the system's sample siting plan under 10 CSR 60-4.020(1) **until March 31, 2016, or under 10 CSR 60-4.022(3) beginning**

April 1, 2016, and that the system intends to use for representative sampling for triggered source water monitoring.

C. [A]**Until March 31, 2016, a** ground water system serving one thousand (1,000) people or fewer may use a repeat sample collected from a ground water source to meet both the requirements of 10 CSR 60-4.020(2) and to satisfy the monitoring requirements of this section (3) for that ground water source only if the department approves the use of *E. coli* as a fecal indicator for source water monitoring under this subsection (3)(A). If the repeat sample collected from the ground water source is *E. coli* positive, the system must comply with the additional requirements in paragraph (3)(A)3. of this rule.

D. Beginning April 1, 2016, a ground water system serving one thousand (1,000) or fewer people may use a repeat sample collected from a ground water source to meet both the requirements of 10 CSR 60-4.022 and to satisfy the monitoring requirements of paragraph (A)2. of this rule for that ground water source only if the department approves the use of *E. coli* as a fecal indicator for source water monitoring under this subsection (3)(A) and approves the use of a single sample for meeting both the triggered source water monitoring requirements in this subsection (3)(A) and the repeat monitoring requirements in 10 CSR 60-4.022 (8). If the repeat sample collected from the ground water source is *E. coli* positive, the system must comply with paragraph (3)(A)3. of this rule.

3. Additional requirements. If the department does not require corrective action under paragraph (4)(A)2. of this rule for a fecal indicator-positive source water sample collected under paragraph (3)(A)2. of this rule that is not invalidated under subsection (3)(D) of this rule, the system must collect five (5) additional source water samples from the same source within twenty-four (24) hours of being notified of the fecal indicator-positive sample.

4. Consecutive systems. In addition to the other requirements of this subsection (3)(A), a consecutive ground water system that has a total coliform-positive sample collected under 10 CSR 60-4.020(1) **until March 31, 2016, or under 10 CSR 60-4.022(4)-(7) beginning April 1, 2016,** must notify the wholesale system(s) within twenty-four (24) hours of being notified of the total coliform-positive sample.

5. Wholesale systems. In addition to the other requirements of this subsection (3)(A), a wholesale ground water system that receives notice from a consecutive system it serves that a sample collected under 10 CSR 60-4.020(1) **until March 31, 2016, or collected under 10 CSR 60-4.022(4)-(7) beginning April 1, 2016,** is total coliform-positive must, within twenty-four (24) hours of being notified, collect a sample from its ground water source(s) under paragraph (3)(A)2. of this rule and analyze it for a fecal indicator under subsection (3)(C) of this rule. If this sample is fecal indicator-positive, the system must notify all consecutive systems served by that ground water source of the fecal indicator source water positive within twenty-four (24) hours of being notified of the monitoring result and must meet the requirements of paragraph (3)(A)3. of this rule.

6. Exceptions to triggered source water monitoring requirements. A ground water system is not required to comply with the source water monitoring requirements of this subsection (3)(A) if either of the following conditions exists:

A. The department determines, and documents in writing, that the total coliform-positive sample collected under 10 CSR 60-4.020(1) **until March 31, 2016, or under 10 CSR 60-4.022(4)-(7) beginning April 1, 2016,** is caused by a distribution system deficiency;
or

B. The total coliform-positive sample collected under 10 CSR 60-4.020(1) **until March 31, 2016, or under 10 CSR 60-4.022(4)-(7) beginning April 1, 2016**, is collected at a location that meets department criteria for distribution system conditions that will cause total coliform-positive samples.

AUTHORITY: section 640.100, RSMo Supp. 2008. Original rule filed May 4, 1979, effective Sept. 14, 1979. Amended: Filed April 14, 1981, effective Oct. 11, 1981. Amended: Filed July 11, 1986, effective Jan. 1, 1987. Amended: Filed June 2, 1988, effective Aug. 31, 1988. Amended: Filed Dec. 4, 1990, effective July 8, 1991. Amended: Filed July 12, 1991, effective Feb. 6, 1992. Amended: Filed March 31, 1992, effective Dec. 3, 1992. Amended: Filed Aug. 4, 1992, effective May 6, 1993. Amended: Filed Dec. 14, 1992, effective Aug. 9, 1993. Amended: Filed May 4, 1993, effective Jan. 13, 1994. Amended: Filed Feb. 1, 1996, effective Oct. 30, 1996. Amended: Filed Jan. 2, 1997, effective Dec. 29, 1997. Amended: Filed Dec. 15, 1999, effective Sept. 1, 2000. Amended: Filed March 17, 2003, effective Nov. 30, 2003. Amended: Filed Feb. 27, 2009, effective Oct. 30, 2009. Amended: Filed Aug. 17, 2015.*

**Original authority: 640.100, RSMo 1939, amended 1978, 1981, 1982, 1988, 1989, 1992, 1993, 1995, 1996, 1998, 1999, 2002, 2006.*

PUBLIC ENTITY COSTS: This amendment is anticipated to cost state agencies and political subdivisions less than \$500 in the aggregate.

PRIVATE ENTTY COSTS: This amendment is anticipated to cost private entities less than \$500 in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: The Department of Natural Resources Public Drinking Water Branch will hold a public hearing on this proposed rule at 10:00 a.m. on October 16, 2015 at the Lewis and Clark State Office Building, 1101 Riverside Drive, Jefferson City, Missouri. Any interested person may comment during the public hearing in support of or in opposition to the proposed rule. Written comments postmarked or received by October 19, 2015 will also be accepted. Written comments must be mailed to: Scott Weckenborg, MDNR Public Drinking Water Branch, P.O. Box 176, Jefferson City, MO 65102, or hand-delivered to the Lewis and Clark State Office Building, 1101 Riverside Drive, Jefferson City, Missouri.