

Revised Total Coliform Rule (RTCR) Factsheet

## **Repeat Monitoring Requirements**

#### WHO DOES THIS FACTSHEET APPLY TO?

Public water systems (PWSs) are required to conduct repeat monitoring when a routine water sample is **POSITIVE FOR TOTAL COLIFORM (TC+) BACTERIA.** 

# RTCR What to Do?

Step 1
Collect 3 repeat samples after a TC+ Routine
Sample?

Step 2 What to Do after Collecting Repeat Sample(s)

## Sample at taps in the distribution system





FOR ASSISTANCE, PLEASE CONTACT-

SD Drinking Water Program 605-773-3754

#### April 1, 2016: All PWSs must comply with the RTCR.

SD Drinking Water Program (DWP) 605-773-3754 denr.sd.gov/des/dw/dwhome.aspx

## STEP 1: COLLECT 3 REPEAT SAMPLES AFTER A TC+ ROUTINE SAMPLE

Beginning on April 1, 2016, your PWS **MUST COLLECT 3 REPEAT SAMPLES FOR EACH ROUTINE TC+ SAMPLE RESULT.** Your lab must also analyze all TC+ samples to determine if *E. coli* bacteria are present.

#### <u>Alert</u>

The lab must analyze all routine and repeat TC+ samples for E. coli.

If *E. coli* bacteria are present [*E. coli*-positive (EC+)], it is an indicator of fecal contamination. You must **CALL SD DWP** on the same day you learn of the EC+ result, orby end of the next business day or 605-280-6831 on weekends and tell them you received an EC+ result.

### Sampling Location

Your PWS must collect 1 repeat sample at the original rountine location, 1 repeat sample within five service connections upstream, and 1 repeat sample within five service connections downstream of the TC+ sample. Your PWS must collect 3 repeat samples within 24 hours for each TC+ sample. TC+ samples must also be tested for *E. coli*.



Site B = 1 repeat
5 connections
upstream



Site A = 1 repeat
Original routine
location



Site C = 1 repeat
5 connections
downstream

#### Alert

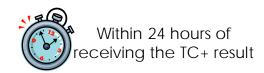
COLLECT ALL 3 REPEAT SAMPLES.

If you do not collect all 3 samples for each TC+ routine sample, you will have to perform a Level 1 or Level 2 assessment.

See the RTCR Factsheet: Level 1
& Level 2 Assessments and
Corrective Actions for more
details.

## Frequency & Timing

Collect all 3 repeat samples within 24 hours after receiving notification of EACH TC+ SAMPLE RESULT. The repeat samples must be taken on the same day.





## STEP 2: WHAT TO DO AFTER COLLECTING REPEAT SAMPLE(S)

See the RTCR Factsheet: Level

1 & Level 2 Assessments and

Corrective Actions

TC+ = Total coliform-positive or present; TC- = Total coliform-negative or absent

EC+ = E. coli-positive-positive or present; EC- = E. coli-negative or absent; EC? = E. coli not analyzed

If Routine Sample Is:	And	Any Repeat Sample Is:	Action: What do your sample results mean?	Violation
TC+ EC-	&	TC+ EC-	CONDUCT A LEVEL 1 OR LEVEL 2 ASSESSMENT. Consult with SD DWP to determine if additional repeat samples will be necessary.	No Violation
TC+ EC-	&	TC+ EC?	CONDUCT A LEVEL 2 ASSESSMENT. Contact SD DWP within 24 hours.  The presence of total coliform bacteria in both your original routine sample and in your follow-up repeat sample means the water may not be safe to use.	
TC+ EC-	&	EC+	CONDUCT A LEVEL 2 ASSESSMENT. Contact SD DWP within 24 hours. The presence of <i>E. coli</i> bacteria in your water means the water may not be safe to use.  CONDUCT A LEVEL 1 OR LEVEL 2 ASSESSMENT. Contact SD DWP so we can help you determine which type of assessment is required.	
TC+ EC-	&	Any missing repeat sample		
TC+ EC+	&	TC+	CONDUCT A LEVEL 2 ASSESSMENT. Consult with SD DWP to determine if additional repeat samples will be necessary.  E. co	
TC+ EC+	&	Any missing repeat sample	I The presence of <i>E. coll</i> pacteria in vollr water means the water	

### E. coli MCL Violation Occurs with Any of These Sampling Result Combinations

Routine Sample Result	Repeat Sample Result	What to do next?
TC+/EC+	TC+	CALL SD DWP within 24 hours
TC+/EC+	Any missing repeat sample	If the following occurs, by the end of the day (or by the end of the next business day if SD DWP office is closed):
TC+	TC+/EC+	
TC+	TC+ (but no <i>E.</i> <i>coli</i> analyzed)	<ul> <li>Routine or repeat sample is EC+; and/or</li> <li>Your system has an <i>E. coli</i> MCL violation</li> </ul>