



Total Coliform Rule: A Quick Reference Guide

Overview of the Rule

Title	Total Coliform Rule (TCR) 56 FR 27544-27568, June 29, 1991, Vol. 54, No. 124 ¹
Purpose	Improve public health protection by reducing fecal pathogens to minimal levels through control of total coliform bacteria, including fecal coliforms and <i>Escherichia coli</i> (<i>E. coli</i>).
General Description	Establishes a maximum contaminant level (MCL) based on the presence or absence of total coliforms, modifies monitoring requirements including testing for fecal coliforms or <i>E. coli</i> , requires use of a sample siting plan, and also requires sanitary surveys for systems collecting fewer than five samples per month.
Utilities Covered	The TCR applies to all public water systems.

Public Health Benefits

Implementation of the TCR has resulted in . . .	▪ Reduction in risk of illness from disease causing organisms associated with sewage or animal wastes. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and associated headaches and fatigue.
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What are the Major Provisions?

ROUTINE Sampling Requirements

- Total coliform samples must be collected at sites which are representative of water quality throughout the distribution system according to a written sample siting plan subject to state review and revision.
- Samples must be collected at regular time intervals throughout the month except groundwater systems serving 4,900 persons or fewer may collect them on the same day.
- Monthly sampling requirements are based on population served (see table on next page for the minimum sampling frequency).
- A reduced monitoring frequency may be available for systems serving 1,000 persons or fewer and using only ground water if a sanitary survey within the past 5 years shows the system is free of sanitary defects (the frequency may be no less than 1 sample/quarter for community and 1 sample/year for non-community systems).
- Each total coliform-positive routine sample must be tested for the presence of fecal coliforms or *E. coli*.
- If any routine sample is total coliform-positive, repeat samples are required.

REPEAT Sampling Requirements

- Within 24 hours of learning of a total coliform-positive ROUTINE sample result, at least 3 REPEAT samples must be collected and analyzed for total coliforms:
 - One REPEAT sample must be collected from the same tap as the original sample.
 - One REPEAT sample must be collected within five service connections upstream.
 - One REPEAT sample must be collected within five service connections downstream.
 - Systems that collect 1 ROUTINE sample per month or fewer must collect a 4th REPEAT sample.
- If any REPEAT sample is total coliform-positive:
 - The system must analyze that total coliform-positive culture for fecal coliforms or *E. coli*.
 - The system must collect another set of REPEAT samples, as before, unless the MCL has been violated and the system has notified the state.

Additional ROUTINE Sample Requirements

- A positive ROUTINE or REPEAT total coliform result requires a minimum of five ROUTINE samples be collected the following month the system provides water to the public unless waived by the state.

¹ The June 1991 Rule was revised as follows: Corrections and Technical Amendments, 6/19/90 and Partial Stay of Certain Provisions (Variance Criteria) 56 FR 1556-1557, Vol. 56, No. 10.

Note: The TCR is currently undergoing the 6 year review process and may be subject to change.

Total Coliform Rule Quick Reference Guide

**Emily Alcott, Mark S Ashton, Bradford S
Gentry**



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Environmental Law Handbook Daniel M. Steinway, Christopher L. Bell, Kevin A. Ewing, David R. Case, Karen J. Nardi, William F. Brownell, 2011-09-16 The 21st edition of this well known handbook is thoroughly updated with changes to the Clean Air Act and the Oil Pollution Act a rewritten chapter on the Safe Drinking Water Act and a brand new chapter on Climate Change This is an essential reference for environmental students and professionals who want the most up to date information available

Environmental Law Handbook Christopher Bell, F. William Brownell, David R. Case, Andrew N. Davis, Kevin A. Ewing, Jessica O. King, Stanley W. Landfair, Duke K. McCall, III, Marshall Lee Miller, Karen J. Nardi, Austin P. Olney, Thomas Richichi, John M. Scagnelli, James W. Spensley, Daniel M. Steinway, Rolf R. von Oppenfeld, 2016-12-27 Now in its 23rd edition the Environmental Law Handbook gives readers a comprehensive and up to date look at the major environmental laws affecting U S businesses and organizations Written and compiled by the country s leading environmental law firms it provides the comprehensive and reliable guidance you can trust

[A small systems guide to the total coliform rule monitoring drinking water to protect public health.](#), 2001

Handbook of Water Purity and Quality Satinder Ahuja, 2021-04-21 Handbook of Water Purity and Quality Second Edition provides those involved in water purification research and administration with a comprehensive resource of methods for analyzing water to assure its safety from contaminants both natural and human caused The book includes an overview of the subject and discusses major water related issues in developing and developed countries Issues covered include sampling for water analysis regulatory considerations and forensics in water quality and purity investigations Microbial as well as chemical contaminations from inorganic compounds radionuclides disinfectants pesticides and pharmaceuticals including endocrine disruptors are discussed at length In addition the luxury of municipal water purified for human consumption is unavailable for a very large number of people To help solve this problem some economical water purification techniques including a million dollar Grainger prizewinner that can save millions of lives have been included This fully updated second edition includes four new chapters on topics such as the GenX Water Contamination Problem the impact of climate change on water and green chemistry solutions to water pollution Covers the scope of water contamination problems on a worldwide scale with an overview of major water related issues in developing and developed countries including monitoring techniques for potential terrorist related activities Provides a rich source of methods for analyzing water to ensure its safety from natural and deliberate contaminants Includes a review of water quality forensics with the objective of tracking new potential water contaminants

Water Resource Management Issues Louis Theodore, R. Ryan Dupont, 2019-11-26 Drinking Water Safety Basic Principles and Applications examines the technical and scientific as well as regulatory ethical and emerging issues of pollution prevention sustainability and optimization for the production and management of safe drinking water to cope with environmental pollution population growth increasing demand terrorist threats and climate change pressures It presents a

summary of conventional water and wastewater treatment technologies in addition to the latest processes Features include Provides a summary of current and future of global water resources and availability Summarizes key U S regulatory programs designed to ensure protection of water quality and safe drinking water supplies with details on modern approaches for water utility resilience Examines the latest water treatment technologies and processes including separate chapters on evaporation crystallization nanotechnology membrane based processes and innovative desalination approaches Reviews the specialized literature on pollution prevention sustainability and the role of optimization in water treatment and related areas as well as references for further reading Provides illustrative examples and case studies that complement the text throughout as well as an appendix with sections on units and conversion constants

Environmental Law Handbook Christopher L. Bell, F. William Brownell, David R. Case, Kevin A. Ewing, Jessica O. King, Stanley W. Landfair, Duke K. McCall III, Marshall Lee Miller, Karen J. Nardi, Austin P. Olney, Thomas Richichi, John M. Scagnelli, James W. Spensley, Daniel M. Steinway, Rolf R. von Oppenfeld, 2013-12-04 The environmental field and its regulations have evolved significantly since Congress passed the first environmental law in 1970 and the Environmental Law Handbook published just three years later has been indispensable to students and professionals ever since The authors provide clear and accessible explanations expert legal insight into new and evolving regulations and reliable compliance and management guidance The Environmental Law Handbook continues to provide individuals across the country professionals professors and students with a comprehensive up to date and easy to read look at the major environmental health and safety laws affecting U S businesses and organizations Because it is written by the country's leading environmental law firms it provides the best most reliable guidance anywhere Both professional environmental managers and students aspiring to careers in environmental management should keep the Environmental Law Handbook within arm's reach for thoughtful answers to regulatory questions like How do I ensure compliance with the regulations How do the latest environmental developments impact my operations How do we keep our operations efficient and our community safe This handbook begins with chapters on the fundamentals of environmental law and on issues of enforcement and liability It then dives headfirst into the major laws examining their history scope and requirements with a chapter devoted to each The 22nd edition of this well known handbook has been thoroughly updated covering major changes to the law and enforcement in the areas of Clean Air Clean Water Climate Change Oil Pollution and Pollution Prevention This is an essential reference for environmental students and professionals and anyone who wants the most up to date information available on environmental laws

The ABCs of Environmental Regulation Albert I. Telsey, 2021-10-30 Simplify the enormous array of U S environmental regulations This popular handbook simplifies the complex world of environmental law and regulations so you can quickly see which ones impact your job project or course of study This quick guide provides Easy to read research on a huge amount of environmental laws and regulations that will cut down your research time History and summary of major U S laws and regulations Definitions of acronyms This book simplifies numerous federal environmental

regulations including pollution prevention spills and notifications dumping hazardous waste storage tanks workplace safety nuclear energy marine mammal protection forests soil water conservation ecosystems wetlands federal lands management and wilderness protection This completely updated edition contains a new appendix on federal environmental regulations by act

Next Generation Compliance Cynthia Giles, Cynthia J. Giles, 2022 Nearly everyone accepts as gospel two assumptions compliance with environmental rules is high and enforcement is responsible for making compliance happen Both are wrong Next Generation Compliance shows how regulators can avoid the compliance calamities that plague far too many environmental rules today a lesson that is particularly urgent for regulations tackling climate change

Characterization and Simulation of Flow in the Lower Arkansas River Alluvial Aquifer, South-central Kansas Xiaodong Jian, L. J. Combs, Cristi V. Hansen, 2004

Global Citizenship Education at TAMIU Elevating Education at the Frontera Sara Abi Villanueva, Tonya Huber, 2023-02-01 International Education Inquiries is a book series dedicated to realizing the global vision of Education 2030a This vision involves ensuring inclusive and equitable quality education and promoting lifelong learning opportunities for all The founding editors seek to provide a forum for the diverse voices of scholars and practitioners from across the globe asking questions about transforming the vision of Education 2030 into a reality Published chapters will reflect a variety of formats free of methodological restrictions involving disciplinary as well as interdisciplinary inquiries We expect the series will be a leading forum for pioneers redefining the global discussion about the people places and perspectives shaping Education 2030 outcomes Education 2030 topics of interest include but are not limited to Improving access to quality early childhood development care and pre primary education Ensuring equal access for all women and men to affordable and quality education Increasing the number of youth and adults who have skills relevant for sustainable living and livelihoods Ensuring equal access for the vulnerable including persons with disabilities indigenous peoples and children in vulnerable situations Achieving levels of literacy and numeracy required to engage in communities and employment Acquiring the knowledge and skills needed to promote sustainable development including education for sustainable development and sustainable lifestyles human rights gender equality promotion of a culture of peace and non violence global citizenship education and the appreciation of cultural diversity and of culture s contributions to sustainable development Providing safe non violent inclusive and effective learning environments for all Recruiting preparing supporting and retaining quality teachers

Total Coliform Rule United States. Environmental Protection Agency. Office of Water, 2001

WATER HEALTH - Volume II, 2010-10-24 Water Health is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias These volumes discuss matters of great relevance to our world on desalination which is a critically important as clearly the only possible means of producing fresh water from the sea for many parts of the world The two volumes present state of the art subject matter of various aspects of water health such as Water And Health Classification Of

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The Fecal Bacteria Michael J. Sadowsky,Richard L. Whitman,2010-11-19 A unique holistic approach to understanding fecal bacteria Offers a balanced integrated discussion of fecal bacteria and their presence and ecology in the intestinal tract of mammals in the environment and in the food supply Covers the use of fecal bacteria to examine and assess water quality to offer protection from illnesses related to swimming in or ingesting contaminated water in addition to discussing their use in engineering considerations of water quality modeling monitoring and regulations Includes perspectives from an internationally recognized group of experts that integrates medicine public health environmental and microbiological topics Serves as a resource for microbiologists clinicians animal scientists engineers environmental scientists food safety experts water quality managers and students **Natural and Engineered Solutions for Drinking Water Supplies** Emily Alcott,Mark S Ashton,Bradford S Gentry,2013-03-26 Illuminating opportunities to develop a more integrated approach to municipal water system design Natural and Engineered Solutions for Drinking Water Supplies Lessons from the

Northeastern United States and Directions for Global Watershed Management explores critical factors in the decision making processes for municipal water system delivery Th Pocket Sampling Guide for Operators of Small Water Systems Jim Walasek,1992 Applications of Environmental Aquatic Chemistry Eugene R. Weiner,2012-12-07 Professionals and students who come from disciplines other than chemistry need a concise yet reliable guide that explains key concepts in environmental chemistry from the fundamental science to the necessary calculations for applying them Updated and reorganized Applications of Environmental Aquatic Chemistry A Practical Guide Third Edition provides the essential background for understanding and solving the most frequent environmental chemistry problems Diverse and self contained chapters offer a centralized and easily navigable framework for finding useful data tables that are ordinarily scattered throughout the literature Worked examples provide step by step details for frequently used calculations drawing on case histories from real world environmental applications Chapters also offer tools for calculating quick estimates of important quantities and practice problems that apply the principles to different conditions This practical guide provides an ideal basis for self study as well as short courses involving the movement and fate of contaminants in the environment In addition to extensive reorganization and updating the Third Edition includes a new chapter Nutrients and Odors Nitrogen Phosphorus and Sulfur two new appendices Solubility of Slightly Soluble Metal Salts and Glossary of Acronyms and Abbreviations Used in this Book and new material and case studies on remediation stormwater management algae growth and treatment odor control and radioisotopes Andrew W. Breidenbach Environmental Research Center Small Systems Resource Directory ,1992 **Water Quality** ,2010

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