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**Draft Citation List**

**Chapter 173 – 201A WAC**

**Water Quality Standards for Surface Waters of the State of Washington**

**AO # 16 – 07**

This citation list contains references for data, factual information, studies, or reports on which the agency relied in the adoption for this rule making (RCW 34.05.370(f)).

At the end of each citation is a number in brackets identifying which of the citation categories below the sources of information belongs. (RCW 34.05.272).

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| 10 | Records of best professional judgment of Department of Ecology employees or other individuals. |
| 11 | Sources of information that do not fit into one of the other categories listed. |

1. Blatchley ER, Gong WL, Alleman JE, Rose JB, Huffman DE, Otaki M, Lisle JT. 2007. Effects of wastewater disinfection on waterborne bacteria and viruses. *Water Environment Research*, 79(1): 81-92. [#1]
2. Byappanahalli MN, Nevers MB, Korajkic A, Staley ZR, Harwood VJ. 2012. Enterococci in the environment. *Microbiology and Molecular Biology Reviews*, 76(4): 685-706. [#1]
3. Deller S, Mascher F, Platzer S, Reinthaler FF, Marth E. 2006. Effect of solar radiation on survival of indicator bacteria in bathing waters. *Central European Journal of Public Health*, 14(3). [#1]
4. Dufour A, Ballentine R. 1986. Ambient water quality criteria for bacteria, 1986: bacteriological ambient water quality criteria for marine and fresh recreational waters. National Technical Information Service, Department of Commerce, US. [#1]
5. Kadir K, Nelson KL. 2014. Sunlight mediated inactivation mechanisms of Enterococcus faecalis and Escherichia coli in clear water versus waste stabilization pond water. *Water Research*, *50*, 307-317. [#1]
6. Kühn KP, Chaberny IF, Massholder K, Stickler M, Benz VW, Sonntag HG, Erdinger L. 2003. Disinfection of surfaces by photocatalytic oxidation with titanium dioxide and UVA light. *Chemosphere*, 53(1): 71-77. [#1]
7. Miescier JJ, Cabelli VJ. 1982. Enterococci and other microbial indicators in municipal wastewater effluents. *Journal (Water Pollution Control Federation)*, 1599-1606. [#1]
8. Noble RT, Lee IM, Schiff KC. 2004. Inactivation of indicator micro‐organisms from various sources of faecal contamination in seawater and freshwater. *Journal of Applied Microbiology*, 96(3): 464-472. [#1]
9. Rice EW, Covert TC, Wild DK, Berman D, Johnson SA, Johnson CH. 1993. Comparative resistance of Escherichia coli and enterococci to chlorination. *Journal of Environmental Science & Health Part A*, 28(1): 89-97. [#1]
10. Tree JA, Adams MR, Lees DN. 2003. Chlorination of indicator bacteria and viruses in primary sewage effluent. *Applied and Environmental Microbiology*, 69(4): 2038-2043. [#1]
11. USDOI (United States Department of Interior). Federal Water Pollution Control Administration. (1968). Water quality criteria: report of the National Technical Advisory Committee to the Secretary of the Interior (Government Printing Office, Washington, D.C.). [#7]
12. USEPA (United States Department of Environmental Protection Agency). (2012). Recreational Water Quality Criteria. Office of Water 820-F-12-058. http://water.epa.gov/scitech/swguidance/ standards/criteria/health/recreation/upload/RWQC2012.pdf. [#7]
13. Lazarova V, Savoye P, Janex ML, Blatchley ER, Pommepuy M. 1999. Advanced wastewater disinfection technologies: state of the art and perspectives. *Water Science and Technology*, 40(4-5): 203-213. [#1]
14. Jacangelo J, Darby JL, Loge F, Tchobanoglous G, Heath M, Swaim P. 1995. Comparison of UV irradiation to chlorination: Guidance for achieving optimal UV performance. *Final Rep., Water Environment Research Foundation*. [#1]
15. Davies-Colley RJ, Bell RG, Donnison AM. 1994. Sunlight inactivation of enterococci and fecal coliforms in sewage effluent diluted in seawater. *Applied and Environmental Microbiology*, 60(6): 2049-2058. [#1]
16. Maclean M, MacGregor SJ, Anderson JG, Woolsey G. 2009. Inactivation of bacterial pathogens following exposure to light from a 405-nanometer light-emitting diode array. *Applied and Environmental Microbiology*, 75(7): 1932-1937. [#1]
17. Chang JC, Ossoff SF, Lobe DC, Dorfman MH, Dumais CM, Qualls RG, Johnson JD. 1985. UV inactivation of pathogenic and indicator microorganisms. *Applied and Environmental Microbiology*, 49(6): 1361-1365. [#1]
18. Guo M, Hu H, Bolton JR, El-Din MG. 2009. Comparison of low-and medium-pressure ultraviolet lamps: Photoreactivation of Escherichia coli and total coliforms in secondary effluents of municipal wastewater treatment plants. *Water Research*, 43(3): 815-821. [#1]
19. Tree JA, Adams MR, Lees DN. 2003. Chlorination of indicator bacteria and viruses in primary sewage effluent. *Applied and Environmental Microbiology*, 69(4): 2038-2043. [#1]
20. Mezzanotte, V., Antonelli, M., Citterio, S., & Nurizzo, C. (2007). Wastewater disinfection alternatives: Chlorine, ozone, peracetic acid, and UV light. *Water Environment Research*, *79*(12), 2373-2379. [#1]
21. Stampi S, De Luca G, Zanetti F. 2001. Evaluation of the efficiency of peracetic acid in the disinfection of sewage effluents. *Journal of Applied Microbiology*, 91(5): 833-838. [#1]
22. De Luca G, Sacchetti R, Zanetti F, Leoni E. 2008. Comparative study on the efficiency of peracetic acid and chlorine dioxide at low doses in the disinfection of urban wastewaters. *Annals of Agricultural and Environmental Medicine*, 15(2): 217-224. [#1]

1. Dell'Erba A, Falsanisi D, Liberti L, Notarnicola M, Santoro D. 2004. Disinfecting behaviour of peracetic acid for municipal wastewater reuse. *Desalination*, 168: 435-442. [#1]
2. Borok, A. 2016. Issue Paper: Revisions to the Water Quality Standard for Bacteria. Oregon State Department of Environmental Quality. Environmental Solutions/Standards and Assessment. Portland, OR. [#7]
3. Cude CG. 2005. Accommodating change of bacterial indicators in long term water quality datasets. *Journal of the American Water Resources Association*, 41(1): 47-54. [#1]
4. Edberg SCL, Rice EW, Karlin RJ, Allen MJ. 2000. Escherichia coli: the best biological drinking water indicator for public health protection. *Journal of Applied Microbiology*, 88(S1). [#1]
5. Xu HS, Roberts N, Singleton FL, Attwell RW, Grimes DJ, Colwell RR. 1982. Survival and viability of nonculturable Escherichia coli and Vibrio cholerae in the estuarine and marine environment. *Microbial Ecology*, 8(4): 313-323. [#1]
6. Stevenson AH. 1953. Studies of bathing water quality and health. *American Journal of Public Health and the Nation’s Health*, 43(5\_Pt\_1): 529-538. [#1]
7. USEPA. 2012. Recreational Water Quality Criteria. Office of Water. 820-F-12-058. [#7]
8. USEPA. 1986. Quality Criteria for Water. Office of Water. EPA 440/5-86-001. [#7]
9. Hicks, M. 2001. Setting Standards for the Bacteriological Quality of Washington’s Surface Water. Draft Discussion Paper and Literature Summary. Washington Department of Ecology Publication Number 00-10-072. [#2]
10. USEPA. 2018. Table IA—List of Approved Biological Methods for Wastewater and Sewage Sludge. https://www.ecfr.gov/cgi-bin/text-idx?SID=a6bb8a02b6d783f9356758b5ff0ed106&mc=true&node=pt40.25.136&rgn=div5#se40.25.136\_13. Accessed February 2018. [#7]
11. USEPA. 2018. About the BEACH Act. https://www.epa.gov/beach-tech/about-beach-act. Accessed February 2018. [#7]
12. Duncan IBR. 1988 Health Significance of Klebsiella in the Environment. Queen’s Printer for Ontario. ISBN 0-7729-3574-2. March, 1988. [#1]
13. Rennie RP, Anderson CM, Wensley BG, Albritton WL, Mahony DE. 1990. Klebsiella pneumoniae Gastroenteritis Masked by Clostridium perfringens. Journal of Clinical Microbiology. 28(2): 216-219. [#1]
14. Storm PC. 1981. A Literature Review of the Bacterium Klebsiella Spp. US Army Corps of Engineers, Seattle District. Grays Harbor and Chehalis River Improvements to Navigation Environmental Studies. April, 1981. [#1]
15. Hardy, J. 2011. Washington State Provisional Recreational Guidance for Cylindrospermopsin and Saxitoxin. Washington State Department of Health: Division of Environmental Health. Final Report. DOH 332-118. [#7]
16. USEPA. 2018. Microbial (Pathogen)/Recreational Water Quality Criteria. https://www.epa.gov/wqc/microbial-pathogenrecreational-water-quality-criteria. Accessed November 2017 – March 2018. [#7]
17. Chapter 173-201A WAC, “Water Quality Standards for Surface Waters of the State of Washington.” [#5]
18. USEPA. 2016. Human Health Recreational Ambient Water Quality Criteria or Swimming Advisories for Microcystins and Cylindrospermopsin. EPA 822-P-16-002. https://www.epa.gov/wqc/draft-human-health-recreational-ambient-water-quality-criteria-andor-swimming-advisories. Accessed June 2018. [#7]