- WAC 173-308-140 Biosolids sampling and analytical methods. (1) Sampling. Samples that are collected and analyzed must be representative of the biosolids that are applied to the land.
  - (2) Analytical methods.
- (a) The most current version of the publications listed in this subsection are incorporated by reference. These publications are available for review during normal working hours at the Washington State Department of Ecology headquarters located at 300 Desmond Drive in Olympia, Washington. Copies may be obtained from the standard producer or publisher.
- (b) Unless otherwise stipulated by the department, the following methods (or methods in 40 C.F.R. Part 136 or 40 C.F.R. Part 503) must be used to analyze samples of biosolids or sewage sludge.

## ANALYTICAL METHODS

Parameter	Analytical Method
Arsenic	SW-846 Method 6010
	SW-846 Method 6020
	SW-846 Method 7010
	SW-846 Method 7061
Cadmium	SW-846 Method 6010
	SW-846 Method 6020
	SW-846 Method 7000B
	SW-846 Method 7010
Copper	SW-846 Method 6010
	SW-846 Method 6020
	SW-846 Method 7000B
	SW-846 Method 7010
Lead	SW-846 Method 6010
	SW-846 Method 6020
	SW-846 Method 7000B
	SW-846 Method 7010
Mercury	SW-846 Method 7470
	SW-846 Method 7471
Molybdenum	SW-846 Method 6010
	SW-846 Method 6020
	SW-846 Method 7000B
	SW-846 Method 7010
Nickel	SW-846 Method 6010
	SW-846 Method 6020
	SW-846 Method 7000B
	SW-846 Method 7010
Selenium	SW-846 Method 6010
	SW-846 Method 6020
	SW-846 Method 7010
	SW-846 Method 7741
Zinc	SW-846 Method 6010
	SW-846 Method 6020
	SW-846 Method 7000B
	SW-846 Method 7010
Fecal Coliform	SM 9221 C or E

Parameter	Analytical Method
1 at affecter	SM 9222 D
	Appendix F, EPA/625/ R-92/013
	EPA 1680
	EPA 1681
Salmonella Bacteria	SM 9260 D
	Appendix G, EPA/625/ R-92/013
	EPA 1682
Helminth Ova	Appendix I, EPA/625/ R-92/013
Enteric Viruses	ASTM Designation: D 4994-89
	Appendix H, EPA/625/ R-92/013
Total Kjeldahl Nitrogen (TKN)	SM Method 4500, N <sub>org</sub> B
	SM Method 4500, N <sub>org</sub> C
Nitrate (as N)	SM Method 4500-NO <sub>3</sub> E, F, or H
Nitrite (as N)	SM Method 4500-NO <sub>2</sub> B
Ammonia (as N)	SM Method 4500-NH <sub>3</sub> B + C, D, E, or G
Organic Nitrogen	Value calculated as TKN minus NH <sub>3</sub> -N
Total Phosphorus	SM Method 4500-P B + E or F
Total Solids, Fixed Solids, or Volatile Solids	SM Method 2540 G
Volatile Solids Reduction	Appendix C, EPA/625/ R-92/013
Additional Volatile Solids Reduction for Anaerobically Digested Solids	Appendix D (1), EPA/625/ R-92/013
Additional Volatile Solids Reduction for Aerobically Digested Solids	Appendix D (3), EPA/625/ R-92/013
Specific Oxygen Update Rate	SM Method 2710 B
(SOUR)	Appendix D (2), EPA/625/ R-92/013
pН	SW-846 Method 9045D
TCLP	SW-846 Method 1311
Paint Filter Test	SW-846 Method 9095B
Viruses I Annual I Section Technolo	rd Practice for Recovery of From Wastewater Sludges," Book of ASTM Standards: 11-Water and Environmental ogy, ASTM, 1916 Race hiladelphia, PA 19103-1187.

Parameter		r	Analytical Method
EPA/625/ R-92/013	=	"Environmental Regulations and Technology, Control of Pathogens and Vector Attraction in Sewage Sludge (Including Domestic Septage) Under 40 C.F.R. Part 503,"	
		Agency, Develop Manager Center for	vironmental Protection Office of Research and ment, National Risk ment Research Laboratory, or Environmental Research tion, Cincinnati, OH 45268.
EPA 1680	=	Coliforn (Biosolie Ferment Broth (L Environ Office o	Method 1680: Fecal as in Sewage Sludge ds) by Multiple-Tube ation Using Lauryl-Tryptose TB) and EC Medium. U.S. mental Protection Agency, f Water, Washington, DC 1-R-06-012.
EPA 1681	=	Coliforn (Biosolic Ferment U.S. Env Agency,	Method 1681: Fecal ns in Sewage Sludge ds) by Multiple-Tube ation using A-1 Medium. vironmental Protection Office of Water, gton, DC EPA-821-R-06-013.
EPA 1682	=	USEPA. Method 1682: Salmonella in Sewage Sludge (Biosolids) by Modified Semisolid Rappaport-Vassiliadis (MSRV) Medium. U.S. Environmental Protection Agency, Office of Water, Washington, DC EPA-821-R-06-014.	
SM	=	Examina Wastewa Health A	and Methods for the attion of Water and atter," American Public Association, 1015 15th Street shington, DC 20005.
SW-846	=	Waste, F EPA pub from the Informat	ethods for Evaluating Solid Physical/Chemical Methods," blication SW-846. Available National Technical tion Service, 5285 Port oad, Springfield, VA 22161.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. WSR 07-12-010 (Order 06-06), § 173-308-140, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. WSR 98-05-101 (Order 97-30), § 173-308-140, filed 2/18/98, effective 3/21/98.]