



Ohio Administrative Code

Rule 3745-599-03 Beneficial use and harbor sediment authorization - incorporation by reference.

Effective: February 11, 2024

Incorporation by reference. The text of the incorporated materials is not included in the rules contained in this chapter. The materials are hereby made a part of this chapter. For materials subject to change, only the specific version specified in this rule is incorporated. Any amendment or revision to a referenced document is not incorporated unless and until this rule has been amended to specify the new version.

(A) Availability. The materials incorporated by reference are available as follows:

(1) Specifications of the "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, third edition, including Volume IV, Field Manual (SW-846)." Information and copies may be obtained by writing to: "National Technical Information Service, U.S. Department of Commerce, 5301 Shawnee Road, Alexandria, VA 22312." The full text is also available in electronic format at <https://www.epa.gov/hw-sw846/sw-846-compendium>. These test methods are also available for inspection and copying at most public libraries and "The State Library of Ohio."

(2) Other publications. The availability of these documents is provided in paragraph (B)(2) of this rule. However, many of the documents are also available for inspection and copying at most public libraries and "The State Library of Ohio."

(B) Incorporated materials.

(1) Appropriate "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)," as amended through May 2019 including the following:

(a) Method 1311, "Toxicity Characteristic Leaching Procedure."

(b) Method 1312, "Synthetic Precipitation Leaching Procedure."



(c) Method 1313, "Liquid-Solid Partitioning as a Function of Extract pH Using a Parallel Batch Extraction Procedure."

(d) Method 1314, "Liquid-Solid Partitioning as a Function of Liquid-Solid Ratio for Constituents in Solid Materials Using an Up-Flow Percolation Column Procedure."

(e) Method 1315, "Mass Transfer Rates of Constituents in Monolithic or Compacted Granular Materials Using a Semi-Dynamic Tank Leaching Procedure."

(f) Method 1316, "Liquid-Solid Partitioning as a Function of Liquid-Solid Ratio Using a Parallel Batch Extraction Procedure."

(g) Method 3050B, "Acid Digestion of Sediments, Sludges, and Soils."

(h) Method 3500C "Organic Extraction and Sample Preparation."

(i) Method 6010D, "Inductively Coupled Plasma-Optical Emission Spectrometry."

(j) Method 7000B or 7010, "Flame Atomic Absorption Spectrophotometry," or "Graphite Furnace Atomic Absorption Spectrophotometry."

(k) Method 8081B, "Organochlorine Pesticides by Gas Chromatography."

(l) Method 8082A, "Polychlorinated Biphenyls (PCBs) by Gas Chromatography Guidance."

(m) Method 8260D, "Volatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS)."

(n) Method 8270E, "Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)."

(o) Method 9095B, "Paint Filter Liquids Test."



(2) Other publications as follows:

(a) American Public Health Association, American Water Works Association, and Water Environment Federation "Standard Methods for the Examination of Water and Wastewater;" 24th Edition, 2023. The full text of this document is available in electronic format at: www.standardmethods.org/.

(b) Battelle Memorial Institute, "Visual Sample Plan Version 7.0 User's Guide;" March, 2014. The full text is also available in electronic format at: <https://vsp.pnnl.gov>.

(c) Ohio environmental protection agency, "Rainwater and Land Development Manual;" March, 2023. The full text is available in electronic format at: <https://epa.ohio.gov/divisions-and-offices/surface-water/guides-manuals/rainwater-and-land-development>.

(d) Ohio environmental protection agency, "Total (Extracellular and Intracellular) Microcystins - ADDA by ELISA Analytical Methodology Version 2.4," November 2021. The full text is available in electronic format at: <https://epa.ohio.gov/static/Portals/28/documents/rules/701.0-TotalMicrocystins-V2.4.pdf>.

(e) Ohio hydrologic soil groups. A listing of these soils can be found on the United States department of agriculture, natural resources conservation service web site at: <https://www.nrcs.usda.gov/conservation-basics/conservation-by-state/ohio/ohio-data-maps-analysis>.

(f) Ohio state university, "Standard Operating Procedure Mehlich 3," Version 13, 2012. The full text is available in electronic format at: <https://swel.osu.edu/sites/swel/files/imce/Mehlich%203%20SOP%20SHI.pdf>.

(g) Soil temperatures. The college of food, agriculture, and environmental sciences at the Ohio state university provides daily site specific data at several sites around Ohio for soil temperatures at the following internet address: <https://weather.cfaes.osu.edu/>.

(h) United States environmental protection agency, "Beneficial Use Compendium: A Collection of Resources and Tools to Support Beneficial Use Evaluations, EPA 530-R-16-009," June 2016. The



full text is available in electronic format at: https://www.epa.gov/sites/production/files/2016-06/documents/ben_use_compendium_062216.pdf.

(i) United States environmental protection agency, "Determination of microcystins and nodularin in drinking water by solid phase extraction and liquid chromatography/tandem mass spectrometry (LC/MS/MS) (EPA Method 544)," September 8, 2015. The full text is available in electronic format at: https://cfpub.epa.gov/si/si_public_record_report.cfm?Lab=NERL&dirEntryId=306953.

(j) United States environmental protection agency, "Determination of Total Microcystins and Nodularins in Drinking Water and Ambient Water by ADDA Enzyme-Linked Immunosorbent Assay (EPA Method 546)," September 2016. The full text is available in electronic format at: <https://www.epa.gov/sites/default/files/2016-09/documents/method-546-determination-total-microcystins-nodularins-drinking-water-ambient-water-adda-enzyme-linked-immunosorbent-assay.pdf>.

(k) United States environmental protection agency, "Ecological Soil Screening Levels for Aluminum," November 2003. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_aluminum.pdf.

(l) United States environmental protection agency, "Ecological Soil Screening Levels for Antimony," February 2005. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_antimony.pdf.

(m) United States environmental protection agency, "Ecological Soil Screening Levels for Arsenic," March 2005. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_arsenic.pdf.

(n) United States environmental protection agency, "Ecological Soil Screening Levels for Barium," February 2005. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_barium.pdf.

(o) United States environmental protection agency, "Ecological Soil Screening Levels for Beryllium," February 2005. The full text is available in electronic format at:



https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_beryllium.pdf.

(p) United States environmental protection agency, "Ecological Soil Screening Levels for Cadmium," March 2005. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_cadmium.pdf.

(q) United States environmental protection agency, "Ecological Soil Screening Levels for Chromium," April 2008. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_chromium.pdf.

(r) United States environmental protection agency, "Ecological Soil Screening Levels for Cobalt," March 2005. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_cobalt_.pdf.

(s) United States environmental protection agency, "Ecological Soil Screening Levels for Copper," February 2007. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_copper.pdf.

(t) United States environmental protection agency, "Ecological Soil Screening Levels for DDT and Metabolites," April 2007. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_ddt.pdf.

(u) United States environmental protection agency, "Ecological Soil Screening Levels for Dieldrin," April 2007. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_dieldrin.pdf.

(v) United States environmental protection agency, "Ecological Soil Screening Level for Iron," November 2003. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_iron.pdf.

(w) United States environmental protection agency, "Ecological Soil Screening Levels for Lead," March 2005. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_lead.pdf.



(x) United States environmental protection agency, "Ecological Soil Screening Levels for Manganese," April 2007. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_manganese.pdf.

(y) United States environmental protection agency, "Ecological Soil Screening Levels for Nickel," March 2007. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_nickel.pdf.

(z) United States environmental protection agency, "Ecological Soil Screening Levels for Pentachlorophenol," April 2007. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_pcp.pdf.

(aa) United States environmental protection agency, "Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs)," June 2007. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_pah.pdf.

(bb) United States environmental protection agency, "Ecological Soil Screening Levels for Selenium," July 2007. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_selenium.pdf.

(cc) United States environmental protection agency, "Ecological Soil Screening Levels for Silver," September 2006. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_silver.pdf.

(dd) United States environmental protection agency, "Ecological Soil Screening Levels for Vanadium," April 2005. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_vanadium.pdf.

(ee) United States environmental protection agency, "Ecological Soil Screening Levels for Zinc," June 2007. The full text is available in electronic format at:

https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_zinc.pdf.



(ff) United States environmental protection agency, "Integrated Risk Information System," April 2023. The full text is available in electronic format at: <https://www.epa.gov/iris>.

(gg) United States environmental protection agency internet-based resources relating to BMPs for erosion and sedimentation, including the sector specific "Industrial Storm Water Fact Sheet Series;" February 2021. The full text is available in electronic format at:
<https://www.epa.gov/npdes/industrial-stormwater-fact-sheet-series>.

(hh) United States environmental protection agency, "Background Information for the Leaching Environmental Assessment Framework (LEAF) Test Methods," November 2010. The full text is available in electronic format at: https://clu-in.org/download/remed/EPA_LEAF_P1009TQ9.pdf.

(ii) United States environmental protection agency, "Determination of Ammonia Nitrogen by Semi-Automated Colorimetry (EPA method 350.1)," Revision 2.0, August 1993. The full text is available in electronic format at: <https://www.epa.gov/sites/default/files/2015-06/documents/epa-350.1.pdf>.

(jj) United States environmental protection agency, "Determination of Total Kjeldahl Nitrogen by Semi-Automated Colorimetry (EPA method 351.2)," Revision 2.0, August 1993. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2015-08/documents/method_351-2_1993.pdf.

(kk) United States environmental protection agency, "Determination of Nitrate-Nitrite Nitrogen by Automated Colorimetry (EPA method 353.2)," Revision 2.0, August 1993. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2015-08/documents/method_353-2_1993.pdf.

(ll) United States environmental protection agency, "Phosphorous, All Forms (Colorimetric, Ascorbic Acid, Two Reagent)(EPA method 365.3)," 1978. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2015-08/documents/method_365-3_1978.pdf.

(mm) United States environmental protection agency, "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, EPA-821-R-02-012;" Fifth Edition, October 2002. The full text is available in electronic format at:



https://www.epa.gov/sites/default/files/2015-08/documents/acute-freshwater-and-marine-wet-manual_2002.pdf.

(nn) United States environmental protection agency, "Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79/020;" March 1983. The full text is available in electronic format at: <http://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=30000Q10.txt>.

(oo) United States environmental protection agency, "Methodology for Evaluating Beneficial Uses of Industrial Non-Hazardous Secondary Materials, EPA 530-R-16-011;" April 2016. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2016-10/documents/methodology_for_evaluating_beneficial_use_of_secondary_materials_4-14-16.pdf.

(pp) United States environmental protection agency, "National Management Measures to Control Nonpoint Source Pollution from Urban Areas, EPA-841-B-05-004;" November 2005. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2015-09/documents/urban_guidance_0.pdf.

(qq) United States environmental protection agency, "National Menu of Best Management Practices (BMPs) for Stormwater;" as updated through August 2023. The full text is available in electronic format at: <https://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater#edu>.

(rr) United States environmental protection agency, "RCRA Waste Sampling Draft Technical Guidance, Planning, Implementation, and Assessment, EPA 530-D-02-002;" as amended through August 2002. Information and copies may be obtained by writing to "U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue N.W., Washington, DC 20460." The full text is also available in electronic format at: https://www.epa.gov/sites/default/files/2015-10/documents/rwsdtg_0.pdf.

(ss) United States environmental protection agency, "Regional Screening Levels (RSLs) - Generic Tables," May 2023. The full text is available in electronic format at: <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>.

(tt) United States environmental protection agency, "Regional Screening Levels (RSLs) - User's



Guide," November 2023. The full text is available in electronic format at:
<https://www.epa.gov/risk/regional-screening-levels-rsls-users-guide>.

(uu) United States environmental protection agency, "Risk Assessment of Spent Foundry Sands In Soil-Related Applications, EPA-530-R-14-003;" October 2014. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2016-03/documents/risk_assessment_sfs_in_soil.pdf.

(vv) United States environmental protection agency, technical support center for monitoring and site characterization, "Statistical Software ProUCL 5.2 for Environmental Applications for Data Sets with and without Nondetect Observations, EPA-600-R-07-041;" June 2022. The full text is available in electronic format at: <https://www.epa.gov/land-research/proucl-software>.

(ww) United States environmental protection agency, "Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens," March 2005. The full text is available in electronic format at: https://www.epa.gov/sites/default/files/2013-09/documents/childrens_supplement_final.pdf.