

Compilation of EPA Mixing Zone Documents

Comparison of All EPA Documents

Full document available at
<http://www.epa.gov/waterscience/standards/mixingzone>

Standards and Health Protection Division
Office of Water
U.S. Environmental Protection Agency

Comparison of Mixing Zone Documents from EPA Headquarters by Topic

	Technical guidance	Policy guidance	Recommends states specify whether mixing zones are allowed	Effluent characterization—WET	Effluent characterization—specific pollutants	Effluent characterization—bioconcentratable pollutants	Application of criteria in mixing zones	Size and/or area considerations	Lethality to passing organisms	Determining WLAs	Special situations: lake, marine, estuarine	Cautions about mixing zones in certain situations (e.g., near fish harvesting)	Mixing zone analyses (e.g., models)
Technical and Policy Guidance Documents													
<i>Technical Support Document for Water Quality-based Toxics Control</i> (USEPA, 1991)	●		●	●	●	●	●	●	●	●	●	●	●
<i>Water Quality Standards Handbook: Second Edition</i> (USEPA, 1994)	●		●					●	●				
<i>Memorandum: EPA Guidance on Application of State Mixing Zone Policies in EPA-Issued NPDES Permits</i> (USEPA, 1996)		●	●										
<i>Allocated Impact Zones for Areas of Non-Compliance</i> (USEPA, 1995)	●							⊙					
<i>Technical Guidance Manual for Performing Waste Load Allocations, Book III: Estuaries. Part 3: Use of Mixing Zone Models in Estuarine Waste Load Allocations</i> (USEPA, 1992)	●						●	●		●			●
<i>U.S. EPA NPDES Permit Writer's Manual</i> (USEPA, 1996)	●		●										●
Modeling Documents													
<i>Dilution Models for Effluent Discharges, 4th ed. (Visual Plumes)</i> (USEPA, 2003)	●												●
<i>Dilution Models for Effluent Discharges, 3rd ed.</i> (USEPA, 1994)	●												●
<i>CORMIX2: An Expert System for Hydrodynamic Mixing Zone Analysis of Conventional and Toxic Multiport Diffuser Discharges</i> (USEPA, 1991)	●	⊙											●
<i>User's Manual for CORMIX: A Hydrodynamic Mixing Zone Model and Decision Support System for Pollutant Discharges into Surface Waters</i> (USEPA, 1997)	●							⊙	●				●
<i>Expert System for Hydrodynamic Mixing Zone Analysis of Conventional and Toxic Single Port Discharges (CORMIX1)</i> (USEPA, 1990)	●												●
<i>Compendium of Tools for Watershed Assessment and TMDL Development</i> (USEPA, 1997)	●												●
<i>Initial Mixing Characteristics of Municipal Ocean Discharges: Volume 1—Procedures and Applications</i> (USEPA, 1985)	●												●
Great Lakes Rule													
<i>Final Rule to Amend the Final Water Quality Guidance for the Great Lakes System to Prohibit Mixing Zones for Bioaccumulative Chemicals of Concern</i> (USEPA, 2000)		●				●							

● The document describes in detail the associated topic; ⊙ The document provides very little detail concerning the associated topic