

Compilation of EPA Mixing Zone Documents

Subject Comparison Table

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

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

Major Topics in EPA Headquarters Mixing Zone Documents

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

● The topic is discussed in detail in the associated document; ⊙ Very little detail about the topic is provided in the associated document