

Appendix G

Annotated List of Relevant, Reviewed Documents

Annotated List of Reviewed Materials

Material Reviewed	Description/Relevance
<i>Groundwater</i>	
Dry Wells and the Risk of Groundwater Contamination: An Annotated Bibliography (Hamad et al. 2016)	Documentation to consider regarding use of dry wells in the ARB region
The Water Report™ Deep Infiltrating Stormwater (Torrent 2015)	
Soil Survey of Sacramento County, California (USDA SCS 1993)	Soil, climate, and geologic history of Sacramento County region
Coupling distributed stormwater collection and managed aquifer recharge: Field application and implications (Beganskas and Fisher 2017)	Strategies like managed aquifer recharge can improve groundwater supplies, mitigating the negative consequences of persistent groundwater overdraft.
Influencing Factors and a Proposed Evaluation Methodology for Predicting Groundwater Contamination Potential from Stormwater Infiltration Activities (Clark and Pitt 2007)	Methodology for evaluating infiltration as a groundwater quality management option and methods for evaluating contamination potential
Linking Stormwater Collection to Managed Aquifer Recharge: Mapping, Modeling, Measurement, and Monetization (Fisher et al. 2016)	Presentation on stormwater collection and aquifer recharge
An Evaluation of California's Adjudicated Groundwater Basins (Langridge et al. 2016)	An evaluation of the current condition of California's adjudicated basins and the potential for future improvements to the adjudication process
Underground Injection Control (UIC) Program Class V Well Identification Guide (USEPA 2008)	Clarification on which stormwater infiltration practices/technologies have the potential to be regulated as "Class V" wells
Contamination of Soil Groundwater Due to Stormwater Infiltration Practices (Weiss, LeFevre, and Gulliver 2008)	The fate of contaminants infiltrated from stormwater runoff and the potential for groundwater contamination was investigated by reviewing literature published in peer-reviewed scientific and engineering journals.

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How much groundwater did California's Central Valley lose during the 2012-2016 drought?: CA Groundwater Loss Over 2012-2016 (Xiao et al. 2017)	An investigation of groundwater modeling and pumping during recent California droughts
<i>Impacts of Urbanization on Water Quality</i>	
The impact of urban patterns on aquatic ecosystems: An empirical analysis in Puget lowland sub-basins (Alberti et al. 2007)	Water quality study on impact based on amount and configuration of impervious area and forest land
The Linkage Analysis: Landscape characterization, receiving-water conditions, watershed processes, and human disturbance. (D. B. Booth et al. 2011)	Task 4 of the Central Coast Joint Effort for Hydromodification Control - identifying relationships between dominant watershed processes, disturbance, and receiving-water conditions.
Watershed Characterization Part 2: Watershed Management Zones and Receiving-Water Conditions (D. Booth and Gilliam 2011)	Task 3 of the Central Coast Joint Effort for Hydromodification Control
Stormwater effects handbook: a toolbox for watershed managers, scientists, and engineers (Burton and Pitt 2002)	A review of pollutant sources, receiving ecosystems, strengths and weaknesses of assessment tools, and proper quality assurance and quality control practices.
Estimation of Volumetric Runoff Coefficients for Texas Watersheds Using Land-Use and Rainfall-Runoff Data (Dhakal et al. 2012)	An evaluation of runoff coefficients
Urban Storm-Runoff Modeling--Madison Wisconsin (Grant and Goddard 1979)	Study on the effects of physical changes to storm-sewer conduits and increased runoff detention/infiltration on storm runoff in urban basins
The effect of urbanization on floods of different recurrence interval (Hollis 1975)	Studies have shown that the urbanization of a catchment can drastically change the flood characteristics of a river. Published results are synthesized to show the general relationship between the increase in flood flows following urbanization and both the percentage of the basin paved and the flood recurrence interval.

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Hydrology for Urban Land Planning - A Guidebook on the Hydrologic Effects of Urban Land Use (Leopold 1968)	A summary of existing knowledge regarding the effects of urbanization on hydrologic factors
Stream ecosystem function in urbanizing landscapes (Meyer, Paul, and Taulbee 2005)	Analysis of the correlation between stream water quality and level of urbanization
Assessing the impact of urbanization on storm runoff in a peri-urban catchment using historical change in impervious cover (Miller et al. 2014)	This paper investigates changes in storm runoff resulting from the transformation of previously rural landscapes into peri-urban areas.
Urban hydrology and water management – present and future challenges (Niemczynowicz 1999)	Study of challenges facing urban hydrology and water management
Small Storm Flow and Particulate Washoff Contributions to Outfall Discharges (Pitt 1987)	A study investigating the accuracy of particulate wash off models
Hydromodification Assessment and Management in California (Stein et al. 2014)	Document focuses on assessing and managing effects to streams because they are most prevalent, widely studied, and arguably the most responsive type of receiving water
Increasing summer river discharge in southern California, USA, linked to urbanization: Increasing River Discharge in California (Townsend-Small et al. 2013)	Analysis of the correlation between stream water quality and level of urbanization
NPS Pollution Runoff of Rain and Snowmelt-Our Biggest Water Quality Problem (USEPA 1991b)	EPA Journal on water quality of rain and snowmelt runoff
Urban Stormwater Runoff: A New Class of Environmental Flow Problem (Walsh, Fletcher, and Burns 2012)	Analysis of the effect of urbanization on streams
The importance of upland flow paths in determining urban effects on stream ecosystems (Walsh and Kunapo 2009)	Mitigation of urban effects on streams requires an understanding of the paths by which urban effects are transmitted from catchments to streams and how those effects are attenuated with distance
Restoration of aquatic ecosystems: science, technology, and public policy (NRC 1992)	Outlines national strategy for aquatic restoration, with practical recommendations, and features case studies of aquatic restoration activities around the country

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Low Impact Development (LID)	
MS4 Catchment Delineation and Attribute Generation Guidance (2nd Nature 2016)	Link to CASQA for Case Studies, Barriers, and Gap Analysis Tool for review of planning and development standards and procedures for LID implementation
Central Coast LID's Municipal Landscape Gap Analysis Tool (AHLB undated)	Tool for identifying and addressing municipal standards that act as barriers to LID implementation
From Rain Tanks to Catchments: Use of Low-Impact Development To Address Hydrologic Symptoms of the Urban Stream Syndrome (Askarizadeh et al. 2015)	A study on the most efficient and cost effective ways to implement LID technologies.
California LID Portal CASQA - California Stormwater Quality Association (CASQA n.d.)	CASQA website portal with links to LID material available from other sources, info, and LID tools.
Lot-level approaches to stormwater management are gaining ground (Hager 2005)	Overview of Low Impact Development strategies and comparison against conventional approaches
Barriers and Opportunities for Low Impact Development: Case Studies from Three Oregon Communities (Godwin et al. 2008)	A study of benefits and barriers facing Low Impact Development

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Modeling Tools	
Sacramento Area Hydrology Model (SAHM) Guidance Document (Clear Creek 2013)	Tool for analyzing hydromodification effects of land development projects and sizing solutions to mitigate the increased runoff from these projects.
GreenPlan-IT ToolKit (GreenPlan-IT 2016)	A modeling tool that helps aid municipalities in efforts to place green infrastructure in the landscape and track the effectiveness of these installations.
ARB OPTI (RWA 2017)	On-line planning tool and information center for ARB IRWMP. Tool will be updated to accommodate SWRP needs
Management Watersheds with WMOST (USEPA 2014)	Watershed management support tool focused on determining the effect of management decisions on the watershed
One Water Management Strategies	
CUWA Policy Principles "One Water" (CUWA 2016a)	One Water principles as defined by the California Urban Water Agencies (CUWA)
Blueprint for one water (Paulson, Stephens, and Broley 2017)	One Water principles as defined by the Water and Environment Foundation (WEF)
One Water Roadmap: The Sustainable Management of Life's Most Essential Resource (US Water Alliance 2016)	One Water principles as defined by the US Water Alliance
Public Engagement	
Public Buy-In-We Can't Succeed Without It (Kubick 2016)	Discussion on why San Francisco Public Utilities Commission needs more public support
Recycled Water	
Recycled Water Policy-Water Board (California State Water Board 2013)	An overview of recycled water policy from the State Board

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Conserving Water With Rainwater Harvesting: Preventing Pollution With Green Infrastructure (Foster, n.d.)	Addresses the capture of rainwater for use onsite, and discusses the value of green infrastructure that returns rain and stormwater to the soil and into groundwater
Centralised Urban Stormwater Harvesting for Potable Reuse (McArdle et al. 2011)	An evaluation of the cost associated with using treated stormwater as a source.
Using Graywater and Stormwater to Enhance Local Water Supplies: An Assessment of Risks, Costs, and Benefits (NAS 2016)	Study outlining the risk/cost/benefit assessment of graywater/stormwater use
The Potential for Urban Stormwater as a Water Supply (CUWA 2016b)	Characterization of current urban stormwater uses and the opportunities/challenges associated with increased stormwater capture
Streamlining Regulations: San Francisco's Non-potable Water Program (Kehoe, n.d.)	A presentation discussing San Francisco's effort to diversify the city's water portfolio by streamlining regulations and providing guidelines for developers
Australian Guidelines for Water Recycling: Managing Health and Environmental Risks (Natural Resource Management Ministerial Council 2009)	Guidelines for stormwater harvesting and reuse
Evaluation of three full-scale stormwater treatment systems with respect to water yield, pathogen removal efficacy and human health risk from fecal pathogen (Pettersen et al. 2016)	Study on water quality in 3 different stormwater harvesting systems
A Blueprint for Onsite Water Systems: A Step-by-Step Guide for Developing a Local Program to Manage Onsite Water Systems (SFPUC 2014)	A guide for developing local programs created by the San Francisco Public Utilities Commission
<i>State Water Resources Management</i>	
California Water Action Plan California Natural Resources Agency (CNRA 2016)	2016 Update of the California Water Action Plan
California Water Plan Update 2013 (DWR 2013)	Water management strategies for the state
California Water Plan Update 2018 (DWR 2018)	Draft of the 2018 CA Water Plan update

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Integrated Water Resources Plan (MWD 2016)	2015 Update of the Integrated Water Resources Plan
Results of Nationwide Urban Runoff Program (USEPA 1983)	1983 Final Report of the USEPA Urban Runoff Program
<i>Storage</i>	
California's Water: Storing Water (Lund et al. 2016)	Discussion of improved reservoir operations and groundwater management to improve storage
<i>Stormwater Design Manuals</i>	
The Stormwater Quality Design Manual for the Sacramento Region (SSQP 2014)	Draft manual providing guidance on selecting and designing LID for projects in SSQP jurisdictions
West Placer Stormwater Design Manual (West Placer 2016)	Manual providing design guidance for LID in West Placer
Controlling Urban Runoff: A practical Manual for Planning and Designing Urban BMPs (Schueler and Board 1987)	A BMP design manual to promote water quality and BMPs to minimize negative environmental effects associated with urban runoff
<i>Stormwater Funding</i>	
Maximizing Stormwater Program Effectiveness Through Risk-Based Asset Management (Van Auken, Ahmed, and Slaven 2016)	Use of Asset Management to optimize program effectiveness and overcome a lack of stormwater funding
Paying for water in California (Hanak et al. 2014)	Examines how well California is meeting water management goals and areas in which lack of funding is a key obstacle
Storm-Water Utility User Fee Credits (Reese 1996)	Discussion on different bases for stormwater utility credits
<i>Stormwater Management and Technology</i>	
Stormwater and Green Infrastructure: The Next Generation of Los Angeles Stormwater Infrastructure (Brandt 2015)	Argues for creating a water right for stormwater capture in California

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<p>Hydrologic shortcomings of conventional urban stormwater management and opportunities for reform (Burns et al. 2012)</p>	<p>Argues that urban stormwater management should emphasize the restoration and protection of natural hydrologic processes at small scales, with the aim of restoring natural flow regimes at large scales downstream.</p>
<p>Management and Control Technology for Urban Stormwater Pollution (Finnemore and Lynard 1982)</p>	<p>Best management practices used to control urban runoff are emphasized because of their great potential. They include institutional approaches, land use planning, street cleaning, erosion controls, percolation ponds, and detention/sedimentation basins, with the major emphasis on source storage.</p>
<p>Fresno Metropolitan Flood Control District 2016 Service Plan Update (FMFCD 2016)</p>	<p>A municipality focused on capturing stormwater and maximizing infiltration by utilizing detention basins</p>
<p>Source-control stormwater management for mitigating the impacts of urbanization on baseflow: A review (Hamel, Daly, and Fletcher 2013)</p>	<p>Study on the impact of infiltration source-control technologies on baseflow</p>
<p>Natural Treatment System Design Guidelines (IRWD 2012)</p>	<p>Irvine Ranch Water District, in cooperation with the County of Orange and various cities within the San Diego Creek Watershed is developing an ecosystem-based network of constructed water treatment facilities, known as natural treatment systems (NT).</p>
<p>Principles for urban stormwater management to protect stream ecosystems (J. Walsh et al. 2016)</p>	<p>A set of ideal principles for stream protection intended as a guide for innovators who seek to develop new approaches to stormwater management rather than accept seemingly insurmountable historical constraints, which guarantee future, ongoing degradation.</p>
<p>Urban Stormwater Management and Technology: An Assessment (Lager and Smith 1974)</p>	<p>A comprehensive investigation and assessment of promising, completed, and ongoing urban stormwater projects, representative of state-of-the-art in abatement theory and technology</p>

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<p>Urban stormwater management in the United States (National Research Council (U.S.) et al. 2008)</p>	<p>This book calls for an entirely new permitting structure that would put authority and accountability for stormwater discharges at the municipal level. A number of additional actions, such as conserving natural areas, reducing hard surface cover (e.g., roads and parking lots), and retrofitting urban areas with features that hold and treat stormwater, are recommended.</p>
<p>Soil Moisture Relations in the Southern California Chaparral (Ng and Miller 1980)</p>	<p>Study on soil moisture and vegetation patterns on the north and south facing slopes of the southern California chaparral</p>
<p>Green Infrastructure Design for Pavement Systems Subject to Rainfall-Runoff Loadings (Raje et al. 2013)</p>	<p>A comparison of cost and treatment effectiveness of green infrastructure vs. conventional construction.</p>
<p>Volume reduction of highway runoff in urban areas (Strecker 2015)</p>	<p>Explores the practices of the reduction of stormwater volumes in urban highway environments</p>
<p>Water and Wastes: A Retrospective Assessment of Wastewater Technology in the United States, 1800-1932 (Tarr et al. 1984)</p>	<p>Focuses on increased understanding of water-related environmental problems and to inform policymakers about the larger context of contemporary wastewater questions</p>
<p>America's Wetlands Our Vital Link Between Land and Water (USEPA 1995)</p>	<p>An overview of the rich variety of wetlands, their importance, how they are threatened, and what can be done to conserve them for future generations</p>
<p>Green infrastructure implementation: a special publication (WEF 2014)</p>	<p>A document intended for those embarking on new green infrastructure programs and for those who want to grow and expand their programs</p>
<p>Managing California's water: from conflict to reconciliation (Hanak 2011)</p>	<p>Given anticipated changes in demographic, economic, climatic, and ecosystem conditions, today's conflicts are likely to worsen unless California can quickly develop significant, forward-looking changes in water policy</p>

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Stormwater Governance and Future Cities (Porse 2013)	For all cities, local management innovations, including decisions regarding public engagement, will be critical in shaping future urban stormwater systems
The Organization of Government in Metropolitan Areas (Ostrom 1962)	Autonomous units of government, acting on their own behalf, are considered incapable of resolving diverse problems of the wider metropolitan community
Water Resources Protection Technology: A Handbook of Measures to Protect Water Resources in Land Development (ULI 1981)	A handbook developed to minimize negative effects on water resources associated with land development
<i>Stormwater Management</i>	
TMDLs and Impaired Water Bodies 303(d) List (CVRWQCB 2016)	Relevant water quality standards for the ARB Region
NPDES Permit for MS4 Discharges (CVRWQCB 2016)	Stormwater management requirements for several MS4s in the ARB Region
NPDES Permit for MS4 Discharges (CVRWQCB 2015a)	Previous stormwater management requirements for several MS4s in the ARB Region
NPDES Permit for City of Sacramento Combined Wastewater Collection and Treatment (CVRWQCB 2015b)	Waste discharge requirements for the City of Sacramento combined wastewater collection and treatment system.
Sacramento and San Joaquin River Basin Plan (CVRWQCB 2011)	Relevant water quality standards and beneficial for the ARB Region
California Trash Amendments (SWRCB 2015a)	Trash provisions adopted to reduce the impacts of trash on water quality.
California Industrial General Permit (SWRCB 2015b)	Permit adopted to reduce the impacts of industrial activities on stormwater quality.
California Construction General Permit (SWRCB 2009)	Permit adopted to reduce the impacts of construction activities on stormwater quality.

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Technical Support Document for Post-Construction Stormwater Management Requirements for Development Projects in the Central Coast Region (Regional Water Quality Control Board, Central Coast 2013)	Central Cost Post-Construction Requirements
Guidance for Water Quality Based Decisions: The TMDL process (USEPA 1991a)	Intended to clarify the requirements under section 303 (d) of the Clean Water Act.
Integrated Municipal Stormwater and Wastewater Planning Approach Framework (USEPA 2012)	Guidance on developing and implementing effective integrated plans
Water Quality Order 2015-0075 (Water Board 2015)	Waste discharge requirements for MS4 discharges within the coastal watersheds of Los Angeles County
Proposition 1 Storm Water Grant Program Guidelines (Water Boards 2015)	An established process and criteria that the State Board will use to solicit applications, evaluate and select proposals, and award grants for multi-benefit storm water management projects
Water Quality Order No. 2013-0001-DWQ (Water Boards 2013)	Waste discharge requirements for stormwater discharges from small MS4s
<i>Valuing Stormwater</i>	
Downstream Economic Benefits from Storm-Water Management (Braden John B. and Johnston Douglas M. 2004)	Using benefits transfer methods, this paper assesses the downstream economic consequences of development designs that promote greater on-site water retention.
Stormwater Funding Options (Farfsing and Watson 2014)	Exploring options for sustainable water quality funding in LA County
Drivers, Hindrances, Planning and Benefits Quantification - Economic Pathways and Partners for Water Reuse and Stormwater Harvesting (USEPA 1992)	This report focuses on the drivers, hindrances, and planning of water reuse projects and reports on how utilities that have and have not built reuse projects see them differently.
What Will Be the Cost of Future Sources of Water For California (Marie and Zafar 2016)	Study of the costs of various sources of water in California
A Triple Bottom Line Assessment of Traditional and Green Infrastructure Options for Controlling CSO Events in Philadelphia's Watersheds	Cost-Benefit analysis of Combined Sewer Overflow control alternatives

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(Raucher 2009)	
Harvesting the value of water: stormwater, green infrastructure, and real estate (ULI 2017)	An analysis of stormwater policies and introduction to real estate development projects that have begun in response to these policies.

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Water Quality	
Real-Time PCR Detection of Pathogenic Microorganisms in Roof-Harvested Rainwater in Southeast Queensland, Australia (Ahmed et al. 2008)	Assessment of microbial quality of roof harvested rainwater
Coliforms, biofilms, microbial diversity and the quality of roof-harvested rainwater (Evans et al. 2006)	Study on water quality in roof-harvested rainwater once in tanks
Rooftop runoff as a source of contamination: A review (Lye 2009)	Scientific reports concerning chemical and microbiological contaminant levels of rainwater runoff from rooftop collection in both urban and rural areas are reviewed
Microbial health risks associated with exposure to stormwater in a water plaza (Sales-Ortells and Medema 2015)	Assessment of microbial quality and health risk of rainwater collected in a water plaza
Water Sustainability	
2004 National Water Initiative (NWI) Assessment (Australian National Water Commission 2014)	10 year assessment of Australia's 2004 National Water Initiative - a document that lays out a plan for the governments to increase their water use efficiency.
Vision and Strategic Actions for Managing Stormwater in the 21st Century (CASQA 2015)	A description of CASQA's vision to managing stormwater
Climate Change-State and Regional Water Boards Take Action (CASQA 2017)	CASQA brief summary of the recent 2017 State Water Board Resolution No. 2017-0012 - Comprehensive Response to Climate Change
The Water-Sustainable City: Science, Policy and Practice (Feldman 2017)	This book assesses the challenges facing the world's cities in providing reliable, safe, and plentiful supplies through infrastructural, economic, legal, and political strategies.
LADWP Stormwater Capture Master Plan (Geosyntec 2015)	Enhancing reliability of the city's water supply by promoting capture for direct use and infiltration.

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Water and land use: planning wisely for California's future (Johnson and Loux 2004)	A link between water quality and supply related to California's land use and continually growing population
pLAn Transforming Los Angeles (Mayor's Sustainability Team 2015)	Information packet about LA Mayor's water/environmental sustainability plan (pLAn)
Aura, the city of colour – Australia's shining example of widescale integrated water cycle management (McAlister, Stephens, and Allen 2017)	Report on experimental water sustainable city in Australia
LA Sustainable Water Project: Los Angeles River Watershed (Mika et al. 2017)	A study of the complex interrelationships within urban water management
Fresh Coast Green Solutions Weaving Milwaukee's Green and Grey Infrastructure into a Sustainable Future (MMSD 2012)	Milwaukee Metro Sewer District's operations and future plans
Stormwater Capture Potential in Urban and Suburban California (NRDC 2014)	Investigating the viability of stormwater capture and use to augment water supply
Water Centric Sustainable Communities: Planning, Retrofitting, and Building the Next Urban Environment (Novotny, Ahern, and Brown 2010)	This book emphasizes the need for a new approach to urban water management, and makes the case that these changes are not only possible but imperative.
Water Tomorrow Integrated Water Resources Plan (MWD 2015)	Metropolitan's long-term plan to assure adequate water supplies for Southern California
Water 4.0: The Past, Present, and Future of the World's Most Vital Resource (Sedlak 2014)	A discussion of how water systems will require reinvention in order to maintain reliable, clean, and abundant supplies
Future-Proof Water Where the Bay Area Should Get Its Water in the 21st Century (SPUR 2013)	Analysis of the Bay Area's current water supply and future growth projections as well as recommendations for the best tools for meeting future water needs
Precious Commodity: Providing Water for Americas Cities (Melosi 2011)	An examination of whether water is an inalienable right of citizens, and if government is responsible for its distribution as a public good

Watershed Management

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Upper San Gabriel Watershed Water Augmentation Study Research, Strategy, and Implementation Report (LASGWC 2010)	A study examining the benefits and practicality of implementing broad-based approach to stormwater infiltration within the Los Angeles region.
ARB IRWMP (RWA 2013)	Water-related agency background information and integrated management plan for ARB region.
SSQP Annual Reports (2014/15 & 2015/16) (SSQP 2015 & 2016)	Stormwater program activities, data, and performance for SSQP municipalities over last 2 years
What is a watershed? Website (USGS 2017)	Defining a watershed
A Common Thread Rediscovered: San Gabriel River Corridor Master Plan (LADWP 2006)	An Overview of watershed management strategies for the San Gabriel River
Prado Wetlands FAQ Sheet (Orange County Water District (OCWD) n.d.)	An overview of the Prado Wetlands used to naturally remove nitrates and other contaminants from Santa Ana River flows
The Political Economy of Water Development (Ostrom 1962)	This paper outlines the economics of water resource use as well as the politics associated with water management approaches.
Managing Floods in California (Taylor 2017)	Report on floods and flood management in California
The Watershed Protection Approach (USEPA 1992)	A discussion of a holistic strategy for more effectively restoring and protecting aquatic ecosystems and protecting human health (e.g., drinking water supplies and fish consumption)

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