Protecting Aquatic Life and Human Health from Chemicals and Microbes in Water

From EPA

EPA Expands List of Safer Chemical Ingredients. 130 chemicals added to EPA's Safer Chemical Ingredients List.  
Go to Article

Literature Review of Contaminants in Livestock and Poultry Manure and Implications for Water Quality. Information on emerging contaminants, such as antimicrobials and hormones that may affect water quality.  
Go to Report

Launch of ChemView Tool. Tool improves public access to health and safety data on Toxic Substances Control Act chemicals.  
Go to Tool

From Collaborators

USGS – Factors Affecting Public-Supply-Well Vulnerability to Contamination: Understanding Observed Water Quality and Anticipating Future

Water Quality. Circular 1385. Insight on vulnerability of public-supply wells to contamination.  
Go to Report or oh.water.usgs.gov

Go to Report or www.waterrf.org

USGS – Real-time Monitoring Pays Off for Tracking Nitrate Pulse in Mississippi River Basin to the Gulf of Mexico. On-line tool provides real-time nitrate monitoring.  
Go to Tool or waterwatch.usgs.gov

Go to Report or pubs.er.usgs.gov

Go to Report or www.nap.edu


Go to Report or www.watereuse.org

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Probabilistic Analysis of Risks to UD Drinking Water Intakes from 1,4-Dioxane in Domestic Wastewater Treatment Plant Effluents. Simonich, S.M., 2013. *Integrated Environmental Assessment and Management*, 9(4), 554-559.

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Go to Article or [www.cdc.gov/mmwr/index2013.html](http://www.cdc.gov/mmwr/index2013.html)


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### Recent and Upcoming Meetings

- **GWPC 2013 Spotlight Series - Stray Gas Incidence & Response Forum; Unconventional Oil & Gas Water Management Forum.** July 9-11, 2013 in Grapevine, TX.
  Go to Meeting Page or [www.gwpc.org](http://www.gwpc.org)

- **Review of the IRIS Process.** November 5-6, 2013, Washington, DC.
  Go to Meeting Page or [www.nas.edu](http://www.nas.edu)

- **SETAC North America 34th Annual Meeting.** November 17-21, 2013 in Nashville, TN.
  Go to Meeting Recording or [www.setac.org](http://www.setac.org)

- **Briefing on New and Emerging Information Related to Hydraulic Fracturing.** November 20, 2013 - teleconference.
  Go to Meeting Page

- **GWPC 2014 UIC Conference.** January 21-23, 2014 in New Orleans, LA.
  Go to Meeting Page or [www.gwpc.org](http://www.gwpc.org)

  Go to Meeting Page or [www.ngwa.org](http://www.ngwa.org)

- **2014 WateReuse California Annual Conference.** March 16-18, 2014 in Newport Beach, CA.
  Go to Meeting Page or [www.wateruse.org](http://www.wateruse.org)

- **29th Annual WateReuse Symposium.** September 7-10, 2014 in Dallas, TX.
  Go to Meeting Page or [www.wateruse.org](http://www.wateruse.org)

- **GWPC 2014 Annual Forum.** October 6-8, 2014 in Seattle, WA.
  Go to Meeting Page or [www.gwpc.org](http://www.gwpc.org)

  Go to Meeting Page or [www.setac.org](http://www.setac.org)
Innovative and Affordable Tools and Technologies for Sustainable Public Health Protection

**From EPA**

**EPA Releases Strategies Supporting for Efficient Water Use.** Information on issues related to water supply availability and variability, and energy efficiency.

Go to [Article](#) or [Report](#)

**Drinking Water Infrastructure Needs Survey and Assessment: Fifth Report to Congress.** EPA 816-R-13-006. Funding and operational needs of public water systems estimated at $384 billion for drinking water infrastructure through 2030.

Go to [Report](#)

**From Collaborators**

**Transformation of Amines to Nitrosamines on Activated Carbons.** Huang, C., 2013. WRF Project No. 4343. Strategies for water industry to minimize undesirable nitrosamine formation associated with AC adsorbents.

Go to [Report](#) or [www.waterrf.org](#)

**Feasibility Study on Model Development to Estimate and Minimize Greenhouse Gas Concentrations and Carbon Footprint of Water Reuse and Desalination Facilities.** Hokanson, D.R., et al., 2013. Interprets literature to assist utilities with water reuse and desalination to estimate GHG emissions and carbon footprint.

Go to [Report](#) or [www.watereuse.org](#)

**Evaluation of Impact of Nanoparticle Pollutants on Water Reclamation.** WateReuse Association. WRF-07-04-01. Obtains preliminary information on fate and impact of manufactured nanomaterials in key water reclamation unit processes.

Go to [Report](#) or [www.watereuse.org](#)


Go to [Report](#) or [www.iwapublishing.com](#)


Go to [Report](#) or [www.allianceforwaterefficiency.org](#)

**Pilot-Scale Oxidative Technologies for Reducing Fouling Potential in Water Reuse and Drinking Water Membranes.** Stanford et al., 2013. Evaluates oxidative technologies as pretreatment for RO membrane feed water to address issues with organic fouling.

Go to [Report](#) or [www.watereuse.org](#)

**Predictive Models to Aid in Design of Membrane Systems for Organic Micropollutant Removal.** Drewes, J. 2013. Models to predict rejection of a wide variety of organic compounds by NF and RO membranes.

Go to [Report](#) or [www.watereuse.org](#)

**Review of Nanomaterial Research and Relevance for Water Reuse.** Li Q., 2013. Reviews applications of nanomaterials in water reuse; summarizes existing research on ecological and health risks they could pose.

Go to [Report](#) or [www.watereuse.org](#)


Go to [Report](#) or [www.werf.org](#)
Application of Filters for Evaluating Lead and Copper Concentrations in Tap Water. Cantor, A.F. et al., 2013. WRF Project No. 4415. Results of stakeholder meeting addressing revisions to the Lead and Copper Rule.

Go to Report or www.waterrf.org

National and California Treatment Costs to Comply With Potential Hexavalent Chromium MCLs. Seidel, C. et al., 2013. WRF Project No. 4432. Estimates costs for 4 technologies: reduction, coagulation, filtration; strong base anion exchange; weak base anion exchange; and reverse osmosis.

Go to Report or www.waterrf.org


Go to Report or www.watereuse.org


Go to Report or pacinst.org/publications


Go to Report or www.iwapublishing.com


Go to Report or www.watereuse.org

Update by Algae of Dissolved Organic Nitrogen from BNR Treatment Plant Effluents. Neethling, J.B., 2013. WERF Project No: NUTR1R06e. Recalcitrant or very slowly reactive forms of DON can be separated from the bioavailable effluent DON with an XAD-8 resin cartridge.

Go to Report or www.werf.org


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Recent and Upcoming Meetings

**WateReuse Symposium.** September 15-18, 2013 in Denver, CO.
Go to Meeting Page or www.watereuse.org

**WEFTEC, the Water Environment Federation's Annual Technical Exhibition and Conference.** October 5-9, 2013 in Chicago, IL.
Go to Meeting Page or www.wef.org

**2013 Water Quality Technology Conference and Exposition.** November 3-7, 2013 in Long Beach, CA.
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**American Water Summit 2013: Accelerating Change.** November 5-6, 2013, Washington, DC.
Go to Meeting Page

Go to Meeting Page or www.werf.org

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**WEF Midyear Meeting.** January 29-February 1, 2014 in New Orleans, LA.
Go to Meeting Page

**AWWA/AMTA Membrane Technology Conference & Exposition.** March 10-13, 2014 in Las Vegas, NV.
Go to Meeting Page

**WaterPro Conference.** October 6-8, 2014 in Seattle, WA.
Go to Meeting Page

**NWRA Annual Conference.** November 12-14, 2014 in Coronado, CA.
Go to Meeting Page
## Ecological Systems Approach to Protect and Restore Sustainable Water Quality and Water Quantity on a Watershed Basis

### From EPA

**Waters of the United States Proposed Rule.** In March 2014, EPA and the Army Corps of Engineers jointly released a proposed rule to clarify protection under the Clean Water Act for streams and wetlands that form the foundation of the nation’s water resources.

**Watershed Modeling to Assess the Sensitivity of Streamflow, Nutrient, and Sediment Loads to Potential Climate Change and Urban Development in 20 U.S. Watersheds.** Climate change impacts on streamflow and water quality.

**Go to Report**

**Reassessment 2013: Assessing Progress Made Since 2008.** Hypoxia Task Force reports on progress and need to accelerate reduction of nutrient pollution in Mississippi River and Gulf of Mexico.

**Go to Report**

**Aquatic Life Ambient Water Quality Criteria For Ammonia – Freshwater 2013.** Final national recommended water quality criteria for protection of aquatic life from toxic effects of ammonia in freshwater.

**Go to Report**

**Connectivity of Streams and Wetlands to Downstream Waters: A Review and Synthesis of the Scientific Evidence.** Review of peer reviewed literature to inform rulemaking to enhance protection of the nation’s waters by clarifying CWA jurisdiction.

**Go to Report**

**National Stormwater Calculator.** Desktop application that estimates annual amount of rainwater and frequency of runoff from a specific site anywhere in U.S.

**Go to Tool**

### Toolkit of Resources to Provide States with Flexibility in Adopting and Implementing Numeric Nutrient Criteria.** Provides states with flexibility in adopting and implementing numeric nutrient criteria.

**Go to Article**

### From Collaborators

**Literature Synthesis on Climate Change Implications for Water and Environmental Resources.** Technical Memorandum 86-68210-2013-06. Summary of recent literature on current and projected effects of climate change on hydrology and water resources.

**Go to Report or** [www.usbr.gov](http://www.usbr.gov)


**Go to Report or** [www.werf.org](http://www.werf.org)

**USFWS/NOAA – Status and Trends of Wetlands in the Coastal Watersheds of the Conterminous United States 2004 to 2009.** Continuing coastal wetlands losses in U.S.

**Go to Report or** [www.fws.gov/wetlands/Documents/search.asp](http://www.fws.gov/wetlands/Documents/search.asp)

**Federal Agencies Release Sea Level Rise Planning Tool for Parts of New York and New Jersey Impacted by Hurricane Sandy.** Tool from U.S. Global Change Research Program, NOAA, Army Corps of Engineers, and FEMA.

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Go to Report or www.noaa.gov


Go to Report or www.usbr.gov/newsroom


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Recent and Upcoming Meetings

Subsurface Characterization, Modeling, Monitoring, and Remediation of Fractured Rocks. September 30 - October 1, 2013 in Irvine, CA.
Go to Meeting Page or www.nas.edu/

AWRA Annual Water Resources Conference. November 4-7, 2013 in Portland, OR.
Go to Meeting Page or www.awra.org

NRC Committee on Mississippi River Water Quality Science and Interstate Collaboration. November 18-19, 2013 in St. Louis, MO.
Go to Meeting Page or www.nas.edu

The National Ground Water Association’s 2013 Expo. December 3-6, 2013 in Nashville, TN.
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