

Curriculum Vitae: Pixie A. Hamilton

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Education

M.E. Civil and Environmental Engineering, University of Virginia, 1984
B.S., Environmental Sciences, College of William and Mary, 1980

Job Experience

1984-Current, U.S. Geological Survey

- 2008 – Present, GS-15, Co-Leader of the National Water Quality Monitoring Council and Staff Hydrologist and Communication Lead for the Office of Water Quality, National Water-Quality Assessment (NAWQA) Program

Seeks out new opportunities to lead and promote partnerships that foster collaboration among the water monitoring community; advance the science, data integration and analysis, and monitoring; and improve management of water resources. Spearheads the development of collaborative water information strategies that improve the integration of monitoring and assessment across organizations. Continues to lead communication activities and regional and national synthesis products, as described below.

- 1997–2008, GS-14, Staff Hydrologist and Water Information Coordinator for the Office of Water Quality, National Water-Quality Assessment (NAWQA) Program.

Assessed regional and national water-quality conditions and trends in some of the Nation's most important streams and aquifers. Promoted oral and written communication of USGS science to governmental, research, and interest-group partners in order to help guide water-resource management and protection strategies and policy (see 80 publications in bibliography).

- 1994–1997, GS-14, District Chief, Water Resources Division, Virginia Office.

Managed a 50-person workforce across three state-offices and the operation of a five-million dollar annual budget. Developed a high-quality water program with local, State, regional, and federal cooperators and partners. Provided technical oversight for a multitude of water-resource projects addressing quantity and quality issues in Virginia.

- 1991–1994, GS-13, Staff Hydrologist, National Nutrient Synthesis for the National Water-Quality Assessment Program.

Conducted a national analysis of nutrients in ground water across the United States.

- 1986–1991, GS-12/13, Staff Hydrologist, Delmarva Peninsula Project for the National Water-Quality Assessment Program.

Conducted a regional analysis of water-quality conditions in streams and ground water on the Delmarva Peninsula. Results were used by local, State, and national decision makers and managers. Findings were articulated in multiple formats, meeting multiple audience needs, including the first in a USGS Circular Series “Are Fertilizers and Pesticides in the Ground Water?”

- 1984–1986, GS-9/12, Staff Hydrologist, Virginia District, Water Resources Division.

Developed a regional flow model of ground water underlying the southeastern Coastal Plain of Virginia. Results were used by local and State agencies for regulating water use and permits.

1982 – 1984, Virginia Highway and Transportation Research Council

- Research associate; primary research on the temporal distribution of rainfall in Virginia.

1980-1982, Versar Inc.

- Environmental Scientist on contract with U.S. Environmental Protection Agency to conduct industrial inspections for management of PCBs and other regulated toxic compounds.

1980 (June – September), Bureau of Land Management

- Environmental Geologist Intern charged with mapping the distribution of zeolite in the Wyoming High Plains

Professional Service

- 2006 to present, USGS representative on the multi-organizational Source-Water Collaborative
- 2006 to 2009, USGS representative on Water Environment Federation (WEF) technical committee for World Water Monitoring Day
- 2004 to 2009, Board member of the Ground Water Protection Council Research Foundation
- 2004 to 2006, Council panelist for Water Environment Research Foundation, Project 04-WEM-4—Waterbody Assessment Processes—Integration of Monitoring and Evaluative Techniques
- 2004, Scientific Review Panelist, USDA-ARS Conservation Programs
- 1998-2000, Clean Water Action Plan Task Force
- 1996-1998, Office of the White House, Committee for Environment and Natural Resources (CENR), Monitoring and Assessment Task Force

Community Service

- Volunteer for Comfort Zone—a non-profit organization helping children who have lost family members (2010-Present)
- Court Appointed Special Advocate (CASA) for neglected and abused children of Hanover County, Virginia (2003 – Present)
- Meals on Wheels Volunteer (2003 – Present)
- Virginia Blood Services For-Life Donor (Annually since 1999)

Professional Awards and Honors

- Food and Drug Administration's Leveraging/Collaboration Award as a member of the Polonium Contamination Response Group (June 27, 2008)
- September 2007 – USGS Shoemaker Award for Communications Product Excellence
- May 2007 – Certificate of appreciation for commitment to excellence in water-quality research, Water Environment Research Foundation
- September 2005 – USGS Shoemaker Award for Communications Product Excellence
- April 2004 – Virginia Secretary of Natural Resources Stewardship Certificate
- February 2004 – U.S. Department of Interior Recognition for Twenty Years of service in the United States government
- July 2003 – NASA's Certificate of Appreciation for outstanding contributions to the NASA SCI Files, Education program
- December 2002 – Journal of Soil and Water Conservation Best Feature Article, Honorable Mention

- October 2002 – America’s Clean Water Foundation Certificate of Appreciation for contributions to the Year of Clean Water: The Commemoration of the 30th Anniversary of the Clean Water Act and to the World Watershed Summit
- September 2002 – USGS Shoemaker Award for Communications Product Excellence (release of the pharmaceutical information)
- August 2002 – Elizabeth Jester Fellows Environmental Partnership Award (ASIWPCA)
- July 2000 – Clean Water Action Plan Principal’s Award
- January 1998 – U.S. Department of Interior Certificate of Commendation for contributions of the Clean Water Action Plan
- 1996 – U.S. Geological Survey, Northeastern Water Resources Region Plaque in appreciation for technical and managerial contributions in Virginia
- 1996 – Virginia Association of RC&D Councils Outstanding Sponsor Achievement Award
- 1993 – NAGC Blue Pencil Honorable Mention for publication “Are Fertilizers and Pesticides in the Ground Water”
- 1993 – American Association of Professional Geologist’s Bernold M. “Bruno” Hanson Excellence of Presentation Award
- 1992 – Department of Interior Superior Service Award

Publications

- Ragsdale, Rob, Vowinkel, Eric, Porter, Dwayne, Hamilton, Pixie A., Morrison, Ru, Kohut, Josh, Connell, Bob, Kelsey, Heath, and Trowbridge, Phil, 2011, *Successful integration efforts in water quality from the Integrated Ocean Observing System Regional Associations and the National Water Quality Monitoring Network*: Marine Technology Society Journal, Spring 2011
- Larsen, M.C., Hamilton, P.A., Haines, John, and Mason, Jr, Robert R., 2010, *USGS Perspectives on an Integrated Approach to Watershed and Coastal Management*: Marine Technology Society Journal, Nov/Dec 2010, Volume 44, Number 6.
- Dubrovsky, N.M. and Hamilton, P.A., 2010, *Nutrients in the Nation’s Streams and Groundwater: National Findings and Implications*: USGS Fact Sheet 2010-3078, 6 p.
- Dubrovsky, N.M., Burow, K.R., Clark, G.M., Gronberg, J.M., Hamilton, P.A., Hitt, K.J., Mueller, D.K., Munn, M.D., Nolan, B.T., Puckett, L.J., Rupert, M.G., Short, T.M., Spahr, N.E., Sprague, L.A., and Wilber, W.G., 2010, *Nutrients in the Nation’s Streams and Groundwater, 1992-2004*: U.S. Geological Survey Circular 1350, 174 p.
- Larsen, M.C., Hamilton, P.A., and Myers, D.N., 2010, Water Quality Status and Trends in the United States: *Abstract* in American Chemical Society National Meeting and Exposition, Boston, MA, August 22-26, 2010, 1 p.
- Rowe, G.L. Jr., Belitz, K., Essaid, Hedeff, Gilliom, R.J., Hamilton, P.A., Hoos, A.B., Lynch, D.D., Munn, M.D., and Wolock, D.W., 2009, *Design of Cycle 3 of the National Water-Quality Assessment Program, 2013-2022: Part 1: Framework of Water-Quality Issues and Potential Approaches*, U.S. Geological Survey Open-File Report 2009-1296, 54 p.
- Ging, P.G., Delzer, G.C., and Hamilton, P.A., 2009, *Organic compounds in Elm Fork Trinity River water used for public supply near Carrollton, Texas, 2002–05*: U.S. Geological Survey Fact Sheet 2009–3090, 6 p. (<http://pubs.usgs.gov/fs/2009/3090/>)

- Preston, S.D., Alexander, R.A., Woodside, M.D., and Hamilton, P.A., 2009, *SPARROW Modeling—Enhancing Understanding of the Nation's Water Quality*, U.S. Geological Survey Fact Sheet 2009-3019, March 2009, 6 pp.
- DeSimone, L.A., Hamilton, P.A., Gilliom, R.J., 2009, *Quality of Water from Domestic Wells in Principal Aquifers of the United States, 1991-2004*, U.S. Geological Survey Circular 1332, 48 pp.
- DeSimone, L.A., Hamilton, P.A., Gilliom, R.J., 2009, *Quality of Ground Water from Private Domestic Wells*, Water Well Journal of the National Ground Water Association, April 2009, pp. 33-37.
- Kingsbury, J.A., Delzer, G.C., and Hamilton, P.A., 2008, *Man-Made Organic Compounds in Source Water of nine Community Water Systems that Withdraw from Streams, 2002-05*, U.S. Geological Survey Fact Sheet 2008-3094, November 2008, pp. 6.
- Brayton, M.J., Denver, J.M., Delzer, G.C., and Hamilton, P.A., 2008, *Organic Compounds in Potomac River Water Used for Public Supply near Washington, D.C., 2003-05*, U.S. Geological Survey Fact Sheet 2007-3085, November 2008, pp. 6.
- Hirsch, R.M., Miller, T.L., Hamilton, P.A., and Gilliom, R.J., 2008, *Key Water Issues Now Facing Our Nation*, AWRA Impact, v. 10, no. 3, May 2008, p. 31.
- Hirsch, R.M., Hamilton, P.A., Miller, T.L., and Myers, D.M., 2008, *Water Availability—The Connection Between Water Use and Quality*, U.S. Geological Survey Fact Sheet 2008-3015, April 2008, pp. 4.
- Delzer, Gregory C. and Hamilton, Pixie A., 2007, *National Water-Quality Assessment Program—Source Water-Quality Assessments*, U.S. Geological Survey Fact Sheet 2007-3069, August 2007.
- Gilliom, R.J., Barbash, J.E., Crawford, C.G., Hamilton, P.A., Martin, J.D., Nakagaki, Naomi, Nowell, L.H., Scott, J.C., Stackelberg, P.E., Thelin, G.P., and Wolock, D.M., 2006, *The Quality of our Nation's Waters—Pesticides in the Nation's Streams and Ground Water, 1992-2001*, U.S. Geological Survey Circular 1291, March 2006, Reston, Virginia, 172 p.
- Gilliom, Robert J. and Hamilton, Pixie A., 2006, *Pesticides in the Nation's Streams and Ground Water, 1992-2001—A Summary*: U.S. Geological Survey Fact Sheet 2006-3028, 6 p.
- Makle, Denver and Hamilton, Pixie A., 2006, *World Water Monitoring Day—A Splash at USGS* [in] Department of Interior People, Land, and Water, December 2006.
- Hirsch, Robert M., Hamilton, Pixie A., and Miller, Timothy L., 2006, *The Increasing Need for Science to Inform Policy—More than 30 Years After Passage of the Clean Water Act*: Water Environment Research, v. 78, no. 9, October 2006, pp. 899-900.
- Moran, Michael J., Hamilton, Pixie A., and Zogorski, John S., 2006, *Volatile Organic Compounds in the Nation's Ground Water and Drinking-Water Supply Wells—A Summary*: U.S. Geological Survey Fact Sheet 2006-3048.
- Hirsch, Robert M., Hamilton, Pixie A., and Miller, Timothy L., 2006, *U.S. Geological Survey Perspective on Water-Quality Monitoring and Assessment*: Journal of Environmental Monitoring, v. 8, May 2006, pp. 512-518.
- Van Metre, Peter C., Mahler, Barbara J., Scoggins, Mateo, and Hamilton, Pixie A., 2006, *Parking Lot Sealcoat: A Major Source of Polycyclic Aromatic Hydrocarbons (PAHs) in Urban and Suburban Environments*: U.S. Geological Survey Fact Sheet 2005-3147, 4 p.
- Hamilton, Pixie A., 2005, *Groundwater and Surface Water: A Single Resource*: Water Environment and Technology, May 2005, v. 17, no. 5: pp. 37 – 41.

- Lapham, Wayne W., Hamilton, Pixie A., and Myers, Donna A., 2005, *National Water-Quality Assessment Program—Cycle 2, Regional Assessments of Aquifers*: U.S. Geological Survey Fact Sheet 2005-3013, May 2005, 4 p.
- Eberts, Sandra M., Erwin, Martha L., and Hamilton, Pixie A., 2005, *Assessing the Vulnerability of Public-Supply Wells to Contamination from Urban, Agricultural, and Natural Sources*: U.S. Geological Survey Fact Sheet 2005-3022, April 2005, 4 p.
- Capel, Paul D., Hamilton, Pixie A., and Erwin, Martha L., 2004, *Studies by the U.S. Geological Survey on Sources, Transport, and Fate of Agricultural Chemicals*: U.S. Geological Survey Fact Sheet 2004-3098, September 2004, 4 p.
- Hamilton, Pixie A., Miller, Timothy L., and Myers, Donna N., 2004, *Water Quality in the Nation's Streams and Aquifers—Overview of Selected Findings, 1991-2001*: U.S. Geological Survey Circular 1265, May 2004, 20 p.
- Hamilton, Pixie A., Miller, Timothy L., and Myers, Donna N., 2004, *New Reports on Our Nation's Water Quality*: U.S. Geological Survey Fact Sheet 2004-3045, May 2004, 2 p.
- Miller, Timothy L., Hamilton, Pixie A., and Myers, Donna N., 2004, *Monitoring and Assessing Nation's Water Quality*: [in] Department of Interior People, Land, and Water, v. 10, no. 4, March 2004, pp. 26-27.
- Munn, Mark D. and Hamilton, Pixie A., 2003, *New Studies Initiated by the U.S. Geological Survey—Effects of Nutrient Enrichment on Stream Ecosystems*: U.S. Geological Survey Fact Sheet 118-03, December 2003, 4 p.
- Hamilton, Pixie A., and Miller, Timothy L., 2003, *Chemicals in Agriculture*: [in] *Water: Science and Issues*, Macmillan Reference, ISBN: 0-02-865611-3, May 2003, p 150-154.
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- Mallard, Gail E. and Hamilton, Pixie A., 2002, *Monitoring and Assessing Our Nation's Water Quality*: U.S. Geological Survey Fact Sheet 076-02, August 2002, 6 p.
- Hamilton, Pixie A., 2002, *Assessing the Quality of the Nation's Water Resources*, Associate Editor, *Water Resources Impact*, v. 4, no. 4, July 2002, 37 p. (including authoring feature article, *Water-Quality Patterns in Some of the Nation's Major River Basins and Aquifers*, pp. 5-11).
- Hamilton, Pixie A. and Miller, Timothy L., 2002, *Managing the Water Above and Below*: [in] *Geotimes*, American Geological Institute, v. 47, no. 5, May 2002, pp. 21-24.
- Couch, Carol and Hamilton, Pixie A., 2002, *Effects of Urbanization on Stream Ecosystems*: U.S. Geological Survey Fact Sheet 042-02, May 2002, 2 p.

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- Hamilton, Pixie A., 2001, *U.S. Water Quality Suitable; But River Basins Face Threats from Urban Growth* [in] U.S. Department of Interior People, Land, and Water, June-July 2001, p. 35.
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- Mueller, David K., Hamilton, Pixie A., Helsel, Dennis R., Hitt, Kerie J., and Ruddy, Barbara C., 1995, *Nutrients in Ground Water and Surface Water of the United States—An Analysis of Data Through 1992*: U.S. Geological Survey Water-Resources Investigations Report 95-4031, 74 pp.
- Dunkle, S.A., Plummer, L.N., Busenberg, E., Phillips, P.J., Denver, J.M., Hamilton, P.A., Michel, R.L. and Coplen, T. B., 1993, *Chlorofluorocarbons (CCl₃F and CCl₂F₂) as Dating Tools and Hydrologic Tracers in Shallow Groundwater of the Delmarva Peninsula, Atlantic Coastal Plain, United States*: Water Resources Research, v. 29, no. 12, December 2003, pp. 3837-3860.
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- Hamilton, Pixie A., Welch, Alan H., Christenson, Scott C., and Alley, William M., 1993, *Uses and Limitations of Existing Ground-Water-Quality Data*: [in] *Regional Ground-Water Quality*, edited by William M. Alley, Van Nostrand Reinhold, ISBN 0-442-00937-2, New York, pp. 613-622.
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- Hamilton, Pixie A., Denver, Judith M., Phillips, Patrick J. and Shedlock, Robert J., 1993, *Water-Quality Assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia—Effects of Agricultural Activities on, and Distribution of, Nitrate and Other Inorganic Constituents in the Surficial Aquifer*: U.S. Geological Survey Open File Report 93-40, 87 p.
- Hamilton, Pixie A., and Shedlock, Robert J., 1992, *Are Fertilizers and Pesticides in the Ground Water*: U.S. Geological Survey Circular 1080, 16 p.
- Phillips, Patrick J., Shedlock, Robert J., and Hamilton, Pixie A., 1992, *National Water-Quality Assessment Program Activities on the Delmarva Peninsula in Parts of Delaware, Maryland, and Virginia*: [in] *Proceedings of the 1988 U.S. Geological Survey Workshop on the Geology and Geohydrology of the Atlantic Coastal Plain*, U.S. Geological Survey Circular 1059, pp. 75-78.
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