Amy N. Piscopo, Postdoctoral Researcher / Environmental Engineer, in EPA's National Health and Environmental Effects Research Laboratory

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Mailing Address

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Area of Expertise: My research involves developing and applying numerical models and optimization methods to watershed-scale and subsurface hydrology. During graduate school, I focused extensively on optimizing strategies to improve in situ groundwater remediation by enhancing delivery of the treatment solution to the groundwater contaminant. My interest in groundwater remediation research stemmed from prior experiences working at Superfund clean-up sites as an environmental engineer with GZA GeoEnvironmental Inc. Currently, my primary research at the US EPA involves applying multi-objective optimization to a watershed-scale decision-support tool designed to assist stakeholders in selecting management practices that balance their goals related to water supply and quality.

Education:

- Ph.D., University of Colorado, Boulder, CO; Civil and Environmental Engineering, 2015
- M.S., University of Colorado, Boulder, CO; Civil and Environmental Engineering, 2012
- B.S., Tufts University, Medford, MA; Environmental Engineering, 2009

Professional Experience (Several links exit this site)**:**

- Environmental Engineer, U.S. Environmental Protection Agency, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, Narragansett, RI, 2016-present
  - Piscopo, A., R. M. Neupauer, and J. R. Kasprzyk. Guidelines for active spreading during in situ chemical oxidation to remediate contaminated groundwater (Presentation). Environmental Water Resources Institute Congress, West Palm Beach, FL, May 22-26, 2016.
- Piscopo, A. N., R. M. Neupauer, and J. R. Kasprzyk. 2016. Optimal design of active spreading systems to remediate sorbing groundwater contaminants in situ. *Journal of Contaminant Hydrology* **190**:29-43.
- Piscopo, A. N., J. R. Kasprzyk, and R. M. Neupauer. 2015. An iterative approach to multi-objective engineering design: Optimization of engineered injection and extraction for enhanced groundwater remediation. Environmental Modeling and Software **69**:253-261.
- National Science Foundation GK-12 Teaching Fellow, University of Colorado, Integrated Teaching and Learning Laboratory, Boulder, CO, 2013-2014
- Piscopo, A. N., R. M. Neupauer, and D. C. Mays. 2013. Engineered Injection and

Extraction to Enhance Reaction for Improved In Situ Remediation. Water Resources Research **49**:3618-3625.

- Teaching Assistant, University of Colorado, Sustainable By Design Residential Academic Teaching Program, Boulder, CO, 2011-2012
- Seasonal Engineer, U.S. Forest Service, Abandoned Mine Lands Program, Boulder, CO, 2011
- Graduate Research Assistant, University of Colorado, Department of Civil, Environmental, and Architectural Engineering, Boulder, CO, 2010-2015
- Engineer, GZA GeoEnvironmental Inc., Manchester, NH, June 2009 - July 2010
- Summer Intern, NH Department of Environmental Services, Watershed Bureau, Concord, NH, 2008
- Teaching Fellow, Tufts University, Center for Engineering Education Outreach, Medford, MA, 2006-2008