

KELLY L SMALLING

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PROFESSIONAL EXPERIENCE

2013 – Present	Research Hydrologist, USG Geological Survey, New Jersey Water Science Center
2009 – 2013	Research Hydrologist, US Geological Survey, California Water Science Center
2004 – 2009	Hydrologist, US Geological Survey, California Water Science Center
2003 – 2004	Research Technician II, Skidaway Institute of Oceanography, GA
2001 – 2003	Research Assistant, University of South Carolina,
1999 – 2001	Research Technician I, Skidaway Institute of Oceanography, GA

EDUCATION

2001 – 2003	M.S.P.H in Environmental Health Sciences, University of South Carolina
1994 – 1998	B.S. in Chemistry, University of Alabama in Huntsville

RESEARCH INTERESTS

My research is focused on the sources, fate and environmental exposures of complex contaminant mixtures and their potential health implications to humans, fish and wildlife. My current research focuses on the actual versus perceived health risks of contaminant mixtures to human health and the environment (including fish and wildlife). I am co-Lead of the US Geological Survey's Drinking-Water and Wastewater Infrastructure Integrated Science Team, which emphasizes multi-institution (e.g., EPA, NIEHS, academia, utilities, homeowners) collaborative studies focused on human exposures to inorganic and organic contaminant mixtures in drinking water at the point of use (tap). Other research includes the occurrence and potential effects of pesticides on aquatic and terrestrial organisms including anurans throughout the United States; the occurrence and effects of endocrine disrupting compounds in agricultural and urban watersheds in the Chesapeake Bay; as well as storm-water basins and wetlands as sinks for organic contaminants including currently used pesticides.

PROFESSIONAL MEMBERSHIPS

SETAC (Society of Environmental Toxicology and Chemistry)
ACS (American Chemical Society)

SELECTED PUBLICATIONS

Smalling, K.L., Breitmeyer, S.E., Bunnell, J.F., Laidig, K.J., Burritt, P.M., Sobel, M.C., Cohl, J., Hladik, M.L., Romanok, K.M., Bradley, P.M. Assessing the ecological functionality and integrity of natural ponds, excavated ponds and stormwater basins for conserving amphibian diversity. *Global Ecology and Conservation* 30, e01765. <https://doi.org/10.1016/j.gecco.2021.e01765>

Smalling, K.L., Oja, E.B., Cleveland, D., Daveport, J.M., Eagles-Smith, C., Grant, E.H.C., Kleeman, P.M., Halstead, B.J., Stemp, K.M., Tornabene, B.J., Bunnell, Z.J., Hossack, B.R. Metal accumulation varies with life history, size, and development of larval amphibians. *Environmental Pollution* 287, e117638. <https://doi.org/10.1016/j.envpol.2021.117638>

Blazer, V.S., Gordon, S., Jones, D.K., Iwanowicz, L.R., Walsh, H. L., Sperry, A.J., **Smalling, K.L.** 2021. A Retrospective Analysis of Estrogenic Endocrine Disruption and Land-Use Influences in the Chesapeake Bay Watershed. *Chemosphere*, 266 e129009. <https://doi.org/10.1016/j.chemosphere.2020.129009>

Bradley, P.M., LeBlanc, D.R., Romanok, K.M., **Smalling, K.L.**, Focazio, M.J., et al. 2021. Public and private tapwater: Comparative analysis of contaminant exposure and potential risk, Cape Cod, Massachusetts, USA. *Environment International*, 152, e106487 <https://doi.org/10.1016/j.envint.2021.106487>

Iwanowicz, L.R.; **Smalling, K.L.**; Blazer, V.S.; Braham, R.P.; Sanders, L.R.; Boetsma, A.; Procopio, N.A.; Goodrow, S.; Buchanan, G.A.; Millemann, D.R.; Ruppel, B.; Vile, J.; Henning, B.; Abatemarco, J. 2020. Reconnaissance of Surface Water Estrogenicity and the Prevalence of Intersex in Smallmouth Bass (*Micropterus Dolomieu*) Inhabiting New Jersey. *Int. J. Environ. Res. Public Health*, 17, 2024

Smalling, K.L., Eagles-Smith, CA, Katz, RA, Grant, EHC. 2019. Managing the trifecta of disease, climate, and contaminants: Searching for robust choices under multiple sources of uncertainty. *Biological Conservation*, 236:153-161. <https://doi.org/10.1016/j.biocon.2019.05.026>

Nilsen, E., **Smalling, K.L.**, Ahrens, L. Gros, M., Miglioranza, K.S.B., Pico, Y., Schoenfuss, H.L. 2019. Critical Review: Grand challenges in assessing the adverse effects of contaminants of emerging concern on aquatic food webs. *Environmental Toxicology and Chemistry*. 38(1) 46-60. <https://doi.org/10.1002/etc.4290>

Swanson, J.E., Muths, E., Pierce, C.L., Dinsmore, S.J., Vandever, M.W., Hladik, M.L., **Smalling, K.L.** 2018. Exploring the amphibian exposome in an agricultural landscape using telemetry and passive sampling. *Scientific Reports* 81: 10045, DOI:10.1038/s41598-018-28132-3

Hladik, M.H., Vandever, M. **Smalling, K.L.** 2016. Exposure of native bees foraging in an agricultural landscape to current-use pesticides. *Science of the Total Environment* 542: 469-477.

Smalling, K.L., Reeves, R., Muths, E., Vandever, M., Battaglin, W.A., Hladik, M.H., Pierce, C.L. 2015. Pesticide concentrations in frog tissue and wetland habitats in a landscape dominated by agriculture. *Science of the Total Environment* 502: 80-90.

Smalling, K.L., Fellers, G.M, Kleeman, P.M, Kuivila, K.M. 2013. Accumulation of pesticides in Pacific Chorus frogs (*Pseudacris regilla*) from California's Sierra Nevada Mountains, USA. *Environmental Toxicology and Chemistry* 32(9): 2026-2034.

Smalling, K.L., Reilly, T.J., Sandstrom, M.W., Kuivila, K.M. 2013. Occurrence and persistence of fungicides in bed sediments and suspended solids from three targeted uses areas in the United States, *Science of the Total Environment* 447: 179-185

Smalling, K.L., Morgan, S and Kuivila, K.M. 2010. Accumulation of current-use and organochlorine pesticides in crab embryos from Northern California, USA. *Environmental Toxicology and Chemistry* 29: 2593-2599.