

Kasey D. Kovalcik, Chemist, in EPA's National Exposure Research Laboratory

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Area of Expertise: Kasey's area of expertise is elemental analysis by High Resolution Inductively Coupled Plasma Mass Spectrometry (HR-ICPMS) and Ion Chromatography. His emphasis has been multi-element quantification of field samples.

Select Publications:

Landis, M.S.; Kamal, A.S.; Kovalcik, K.D.; Croghan, C.; Norris, G.A.; Bergdale, A. The Impact of Commercially Treated Oil and Gas Produced Water Discharges on Bromide Concentrations and Modeled Brominated Trihalomethane Disinfection Byproducts at Two Downstream Municipal Drinking Water Plants in the Upper Allegheny River, Pennsylvania, USA. *Science of the Total Environment*, 542, 2016, 505-520.

Pancras, J.P.; Norris, G.A.; Landis, M.S.; Kovalcik, K.D.; McGee, J.K.; Kamal, A.S. Application of ICP-OES for Evaluating Energy Extraction and Production Wastewater Discharge Impacts on Surface Waters in Western Pennsylvania. *Science of the Total Environment*. 529, 2015, 21-29.

Farraj, A.K.; Walsh, L.; Haykal-Coates, N.; Malik, F.; McGee, J.; Winsett, D.; Duvall, R.; Kovalcik, K.; Cascio, W.E.; Higuchi, M.; Hazari, M.S. Cardiac Effects of Seasonal Ambient Particulate Matter and Ozone Co-Exposure in Rats. *Particle and Fibre Toxicology*, 2015, 12:12.

Norris, G.; Landis, M.S.; Kovalcik, K.; Kamal, A.; Croghan, C.; Bergdale, A. Sources Contributing Inorganic Species to Drinking Water Intakes During Low Flow Conditions on the Allegheny River in Western Pennsylvania. Technical Report. May 2015.

Gantt, B.; Hoque, S.; Willis, R.D.; Fahey, K.M.; Delgado-Saborit, J.M.; Erdakos, G.B.; Harrison, R.M.; Bhave, P.V.; Zhang, K.M.; Kovalcik, K.; Pye, H.O. Near-Road Modeling and Measurement of Cerium-Containing Particles Generated by Nanoparticle Diesel Fuel Additive Use. *Environmental Science and Technology*, 2014, 48(10).

Kim, Y.H.; Tong, H.; Daniels, M.; Boykin, E.; Krantz, Q.T.; McGee, J.; Hays, M.; Kovalcik, K. Dye, J.A.; Gilmour, M.I. Cardiopulmonary Toxicity of Peat Wildfire Particulate Matter and the Predictive Utility of Precision Cut Lung Slices. *Particle and Fibre Toxicology*. 2014, 11:29

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Education:

- Ph.D., Analytical Chemistry, University of Toledo, 2001
- B.S., Chemistry, Westminster College, 1995

Professional Experience:

- Chemist, USEPA, ORD, NERL, Research Triangle Park, NC 2007-present
- Chemist, Metametrix Clinical Laboratory, Norcross, GA 2005-2007
- Assistant Professor, Appalachian State University, Boone, NC 2001-2004