

Sean A. Woznicki, Postdoctoral Environmental Engineer, in EPA's National Exposure Research Laboratory

Systems Exposure Division

[Mailing Address](#)

woznicki.sean@epa.gov

Area of Expertise: My areas of expertise are hydrology and watershed modeling. Current research focuses include projecting the impacts of land use change on water resources and drinking water treatment costs, evaluating the impacts of green infrastructure on neighborhood scale hydrology and water quality, and validation of green infrastructure modeling tools. My research interests include GIS, climate and land use change impacts assessment on water resources, ecological restoration, ecosystem services, green infrastructure/best management practices/LID, and applications of soft computing in environmental models.

Select Publications:

Woznicki, S.A., Nejadhashemi, A.P., Abouali, M., Herman, M.R., Esfahanian, E., Hamaamin, Y.A. and Zhang, Z., 2016. Ecohydrological modeling for large-scale environmental impact assessment. *Science of The Total Environment*, 543, pp.274-286.

Herman, M.R., Nejadhashemi, A.P., Daneshvar, F., Ross, D.M., Woznicki, S.A., Zhang, Z. and Esfahanian, A.H., 2015. Optimization of conservation practice implementation strategies in the context of stream health. *Ecological Engineering*, 84, pp.1-12.

Woznicki, S.A., Nejadhashemi, A.P., Ross, D.M., Zhang, Z., Wang, L. and Esfahanian, A.H., 2015. Ecohydrological model parameter selection for stream health evaluation. *Science of The Total Environment*, 511, pp.341-353.

Woznicki, S.A. and Pouyan Nejadhashemi, A., 2014. Assessing uncertainty in best management practice effectiveness under future climate scenarios. *Hydrological Processes*, 28(4), pp.2550-2566.

Einheuser, M.D., Nejadhashemi, A.P. and Woznicki, S.A., 2013. Simulating stream health sensitivity to landscape changes due to bioenergy crops expansion. *Biomass and Bioenergy*, 58, pp.198-209.

Einheuser, M.D., Nejadhashemi, A.P., Sowa, S.P., Wang, L., Hamaamin, Y.A. and Woznicki, S.A., 2012. Modeling the effects of conservation practices on stream health. *Science of The Total Environment*, 435, pp.380-391.

View more research publications by [Sean Woznicki](#).

Education:

- Michigan State University, PhD, 2015, Biosystems and Agricultural Engineering

- Michigan State University, MS, 2011, Biosystems and Agricultural Engineering
- Michigan State University, BS, 2009, Biosystems and Agricultural Engineering

Professional Experience:

- Postdoctoral Environmental Engineer, MRLC Director, USEPA, NERL, 07/2016-Present