

# Donald M Stoeckel

## Office Address:

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## Degrees/certifications:

Bachelor of Science in Microbiology, the Ohio State University, 1992  
Master of Science in Environmental Engineering, University of Cincinnati, 1994  
Doctor of Philosophy in Soil Science, Auburn University, 1999

## Position and Assignments:

Title: Hydrologist  
Function: Research scientist in aquatic microbiology  
Assignments:  
Subject matter specialist, [microbial source tracking](#)  
Instructor, microbiology, [National Training Center](#)  
Principal investigator, USGS cooperative water program research projects

## Memberships and affiliations:

Member, [American Society for Microbiology](#)  
Member, [Water Management Association of Ohio](#)  
Affiliated Scientist, [the Ohio State University Environmental Sciences Graduate Program](#)

## Research Interests:

Microbial source tracking  
Status and trends in microbiological water quality  
Application of molecular markers to detect microbial populations and functions

## Selected Publications:

- Stoeckel, D.M. and Harwood, V.J., 2007, Performance, design, and analysis in microbial source tracking studies: Applied and Environmental Microbiology, 73(8):2405-2415.
- Lamendella, R., Santo Domingo, J.W., Oerther, D.B., Vogel, J.R., and Stoeckel, D.M., 2007, Assessment of fecal pollution sources in a small northern-plains watershed using PCR and phylogenetic analysis of *Bacteroidetes* 16S rDNA: FEMS Microbiology Ecology, 59:651-660.
- Vogel, J.R., Stoeckel, D.M., Lamendella, R., Zelt, R.B., Santo Domingo, J.W., Walker, S.R., and Oerther, D.B., 2007, Fecal-source identification using multiple source-tracking tools in a selected subcatchment: Journal of Environmental Quality, 36:718-729.
- Stoeckel, D.M. and Mancl, K., 2006, Fecal-oral pathogens in water. Extension Fact Sheet AEX-769-06, The Ohio State University, Columbus, Ohio.
- Stoeckel, D.M., 2005, Selection and application of microbial source tracking tools for water-quality investigations: USGS Techniques and Methods 2-A3, 43 p. Available at [http://pubs.usgs.gov/tm/2005/tm2a3/pdf/Book2\\_Collection%20of%20Environmental%20Data.pdf](http://pubs.usgs.gov/tm/2005/tm2a3/pdf/Book2_Collection%20of%20Environmental%20Data.pdf).
- Stoeckel, D.M., Bushon, R.N., Demcheck, D.K., Skrobialowski, S.C., Kephart, C.M., Bertke, E.E., Mailot, B.E., Mize, S.V., and Fendick, Robert B., Jr., 2005, Bacteriological water

- quality in the Lake Pontchartrain Basin, Louisiana, following Hurricanes Katrina and Rita, September 2005: USGS Data Series 143. Available at <http://pubs.usgs.gov/ds/2005/143/>.
- Dumouchelle, D.D., and Stoeckel, D.M., 2005, Occurrence and sources of wastewater-related contaminants near home sewage treatment systems in Ohio: USGS Open-file Report 2005-1282. Available at [http://pubs.usgs.gov/of/2005/1282/pdf/OFR2005\\_1282.pdf](http://pubs.usgs.gov/of/2005/1282/pdf/OFR2005_1282.pdf).
- Santo Domingo, J., Edge, T., Griffith, J., Hansel, J., Harwood, V.J., Jenkins, M., Layton, A., Molina, M., Nakatsu, C., Oshiro, R., Sadowsky, M., Shanks, O., Stelma, G., Stewart, J., Stoeckel, D., Wiggins, B., and Wilbur, J., 2005, Microbial source tracking guide document: EPA/600-R-05-064, 150 p. Available at <http://www.epa.gov/nrmrl/pubs/600r05064/600r05064.pdf>.
- Stoeckel, D.M., Mathes, M.V., Hyer, K.E., Hagedorn, C., Kator, H., Lukasik, H., O'Brien, T.L., Fenger, T.W., Samadpour, M., Strickler, K.M., and Wiggins, B.A., 2004, Comparison of seven protocols to identify fecal contamination sources using *Escherichia coli*: Environmental Science and Technology, v. 38, p. 6109-6117.
- Stoeckel, D.M., and Covert, S.A., 2002, Water quality in the Mahoning River and selected tributaries in Youngstown, Ohio: USGS Water Resources Investigations Report 2002-4122. Available at <http://oh.water.usgs.gov/reports/wrir/wrir02-4122.pdf>.