

## Dr Amey S. Tilak PhD

Postdoctoral Research Fellow

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### About

Dr Amey S. Tilak's expertise are in the area of modeling hydrology, biogeochemistry of agricultural watersheds, and soil remediation techniques.

### Qualifications

PhD in Biological and Agricultural Engineering (North Carolina State University, Raleigh, NC USA),  
Master of Science (MS) in Civil and Environmental Engineering (University of Mississippi, Oxford, MS, USA)  
Bachelor's degree (BS) in Civil Engineering (University of Mumbai, India)

### Biography

Dr Amey S. Tilak worked on "Modeling Groundwater Hydrology and Nitrate-Nitrogen Dynamics of Two Riparian Buffers Located in Eastern North Carolina, USA (January 2008-August 2012). Prior to that he performed experimental work on producing "Manganese Oxide Coatings onto Sand Particles for Adsorption of Trace Metals from Groundwater" at University of Mississippi (Chemical Engineering Department) and the United States Army Corp of Engineers at Engineering Research and Development Center (ERDC) at Vicksburg, MS. His expertise is on hydrology (modeling) and biogeochemistry of riparian buffers and soil remediation techniques for heavy metals removal.

### Doctoral research

**PhD title** Modeling Groundwater Hydrology and Nitrate-Nitrogen Dynamics of Two Riparian Buffers Located in Eastern North Carolina USA using Riparian Ecosystem Management Model (REMM)

### Research

#### Research interests

Hydrologic Modeling of Peatlands, and Riparian Buffers, Soil Remediation

### Other activities

Member Engineer of American Society of Agricultural and Biological Engineers (ASABE) (2008-2012).

### Publications

**Tilak, A.S.**, M.R. Burchell II, M.A. Youssef, R.R. Lowrance and R.G. Williams. **2013**. Field Testing the Riparian Ecosystem Management Model (REMM) on a Riparian Buffer in NC Upper Coastal Plain- **Accepted for Publication in Journal of American Water Resources Association (JAWRA), December 05 2013. (This article is accepted in the "Riparian Buffer Featured Collection" of JAWRA.**

**Tilak, A.S.**, S. Ojewole, C. W. Williford, G.A. Fox, T. M. Sobacki, and S. L. Larson. **2013**. Formation of Manganese Oxide Coatings for Adsorption of Trace Metals from Groundwater. Accepted in Journal of Environmental Quality on August 14 2013. doi:10.2134/jeq2013.04.0142.