

# James W. Weaver, Ph.D.

## Biographical Information

**Name:** James W. Weaver, Ph.D.

**Title:** Hydrologist

## Contact Info:

Ecosystems Research Division  
National Exposure Research Laboratory  
Office of Research and Development  
U.S. Environmental Protection Agency  
960 College Station Road  
Athens, Georgia 30605

Telephone: 706-355-8329

FAX: 706-355-8329

e-mail: [weaver.jim@epa.gov](mailto:weaver.jim@epa.gov)

## Expertise/Research Interests:

- Subsurface transport of contaminants
- Simulation modeling

## Professional:

- American Society of Civil Engineers
- National Ground Water Association

## Links

- The Hydrocarbon Spill Screening Model ([HSSM](#))
- The Lock Lake [Field Study](#)
- Underground Storage Tank [Research](#)
- Gasoline Composition [Study](#)
- The [OnSite](#) on-line calculators
- [Oil Spill](#) Modeling
- [Vapor Intrusion](#) modeling and field research

## Select Publications:

Boufadel, Michel C., Kemei Du, Vikram Kaku, and **James Weaver**, 2007, Lagrangian simulation of oil droplets transport due to regular waves, Environmental Modelling and Software, 22(7), 978-986.

Tillman, Fred D and **James W. Weaver**, 2007, Temporal Moisture Content Variability Beneath and External to a Building and the Potential Effects on Vapor Intrusion Risk Assessment, *The Science of the Total Environment*, 379(1) 1-15.

Tillman, Fred D and **James W. Weaver**, 2006, Uncertainty from Synergistic Effects of Multiple Parameters in the Johnson and Ettinger (1991) Vapor Intrusion Model, *Atmospheric Environment*, 40(22) 4098-4112.

Boufadel, M.C., and **James W. Weaver**, 2005, The Movement of Oil Under Non-breaking Waves, *Marine Pollution Bulletin*, 52(9), 1056-1065.

Weaver, James W., and Fred D Tillman, 2005, Uncertainty and the Johnson-Ettinger Model for Vapor Intrusion Calculations, U.S. Environmental Protection Agency, Washington DC, EPA/600/R-05/110.

Tillman, Fred D, and **James W. Weaver**, 2005, Review of Recent Research on Vapor Intrusion, U.S. Environmental Protection Agency, Washington DC, EPA/600/R-05/106.

Subhashini Chandrasekar, Subhashine, George A. Sorial, and **James W. Weaver**, 2005, Dispersant Effectiveness on Three Oils Under Various Simulated Environmental Conditions, *Environmental Engineering Science*, 22(3), 324-336.

Willson, Clint, R. J. Charbeneau, and **J.W. Weaver**, 2005, A Screening Model for Simulating DNAPL Flow and Transport in Porous Media: Theoretical Development, *Environmental Modelling and Software*, Vol 21/1 pp 16-32.

**Weaver, J.W.**, L. Jordan, and D.B. Hall, 2005, Predicted Ground Water, Soil and Soil Gas Impacts from US Gasolines, 2004 First Analysis of the Autumnal Data, U.S. Environmental Protection Agency, Washington, DC, EPA 600/R-05/032

### **Current Projects:**

- Oil Spill Modeling
- Methyl tert-Butyl Ether (MTBE) in gasoline
- Object oriented approaches to Environmental Simulation Models