

## **WENDY MUSSOLINE, P. E.**

### **CONTACT**

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### **EDUCATION**

Currently enrolled in Doctoral Program, Department of Global Health, USF  
Master of Engineering in Environmental and Civil (minor), Univ. of Florida, 1997  
Bachelor of Science in Environmental Engineering, Univ. of Florida, 1995

### **PROFESSIONAL EXPERIENCE**

#### **Feb 2003 - Present**

Professional Engineer, Environmental Engineering Consultants, Inc. in Tampa, FL  
Conduct Phase I and Phase II Environmental Site Assessments for commercial real estate including former gasoline stations, agricultural land, chemical manufacturing facilities, etc. Prepare emergency plans for oil spill prevention and design septic systems.

#### **Sept 2000 – Feb 2003**

Project Engineer, TASK Environmental, Inc. in Tampa, FL  
Prepared remedial action plans and contamination assessments for petroleum and pesticide-contaminated sites in Florida. Conducted source removal activities at two cattle dip vats on agricultural land and evaluated the impacts on groundwater using a geoprobe to detect the dispersion of arsenic contamination. Participated in numerous field activities including monitoring well installations, groundwater sampling events, soil sampling, and soil screening with an organic vapor analysis photo and/or flame ionization detector.

#### **March 1998 – Sept 1999**

Engineer I, St. John's River Water Management District in Palatka, FL  
Lake Apopka Restoration Project in Central Florida. Involved the acquisition of over 13,000 acres of agricultural lands for the St. Johns River Water Management District. Participated in field investigations, worked with FDEP, and reviewed all submitted documentation including Phase I and II Environmental Site Assessments and Remedial Action Plans and Reports as the District representative. Primary contaminants involved chlorinated pesticides and petroleum constituents.

### **TRAINING AND CERTIFICATIONS**

Professional Engineering License #61785  
ASTM 20-Hour Course on Environmental Site Assessments for Commercial Real Estate  
OSHA 40-Hour Hazardous Waste Safety Training  
TRIMBLE 20-hour GPS Mapping Course  
OSHA 8-hour Hazwoper Annual Refresher Training Annually  
FDEP 8-hour Regulatory Course on Storage Tanks  
FDEP Stormwater Inspector Certification  
Certificate in Christian Ministry from King's Seminary in Los Angeles, CA

## **RESEARCH PROJECTS**

### **Spring 2008 – Present**

Department of Global Health in College of Public Health, USF, Tampa, FL

My current research objective is to incorporate a global health perspective into wastewater treatment systems in the developing world. As part of the interdisciplinary project focused on the millennium development goals, I am evaluating a decentralized wastewater treatment system from an engineering, health and anthropological perspective.

### **August 2005 – December 2007**

Department of Civil & Environmental Engineering in College of Engineering, USF, Tampa, FL

My research focus as on microbial pathogens and indicators in reclaimed water. I conducted a review of current monitoring and assessment practices, summarized the current regulatory guidelines and evaluated associated health risks.

### **August 1995 - August 1997**

Research Assistantship, Department of Environmental Engineering in College of Engineering, UF, Gainesville, FL

Research project involved the design and implementation of a full-scale biological treatment system for landfill leachate at Alachua County Landfill in Archer, Florida. Significantly reduced excessive ammonia concentrations in the leachate by utilizing bacteria from digested wastewater sludge to perform the nitrification process. Monitored pH, alkalinity, dissolved oxygen, and nitrate and ammonia concentrations daily for the duration of the project. Final Thesis was defended in August 1997.

## **TEACHING EXPERIENCE**

### **August 1995**

Teaching Assistantship for Solid Waste Design Course (ENV4932), Department of Environmental Engineering, College of Engineering, UF, Gainesville, FL

### **Fall 2008**

Teaching Assistantship for Exotic and Infectious Disease (PHC6510), Department of Global Health, College of Public Health, USF, Tampa, FL

Teaching Assistantship for Overview of US and International Disaster Management (PHC6182), Department of Global Health, College of Public Health, USF, Tampa, FL

### **Spring 2009**

Teaching Assistantship for Foundations of Food Safety (HSC4580), Department of Global Health, College of Public Health, USF, Tampa, FL