

## **I. CREDENTIALS AND EXPERIENCE: VALERIE J. HARWOOD, Ph.D.**

1. My education includes a Bachelor's degree in French from Iowa State University, a Bachelor's degree in Biology from the State University of New York at Plattsburgh, and a Ph.D. in Biomedical Sciences from Old Dominion University & Eastern Virginia Medical School in Norfolk, VA (1992).

2. From 1992 to 1995 I held a full-time postdoctoral research position at the University of Maryland Center of Marine Biotechnology. In 1995 I joined the Department of Natural Sciences at the University of North Florida as a tenure-track Assistant Professor, where I taught microbiology and related courses, and maintained a research laboratory until I joined USF in 1998. Since August, 1998 I have been employed by the University of South Florida (USF) in Tampa, FL in a full-time, tenure-track position. In 2004 I was promoted from Assistant Professor to Associate Professor, which is my current rank. My responsibilities at USF include teaching undergraduate and graduate courses in microbiology, mentoring undergraduate and graduate research students, university and community service, and maintaining an active research program. My research laboratory personnel currently include two technicians, seven Ph.D. students and one Master's student. My research focuses on microbial water quality, with particular emphasis on microbial source tracking (MST), a field of environmental microbiology that seeks to determine the source of fecal contamination in water by identifying specific molecular signatures in the DNA of fecal microorganisms.

3. I am the author of 28 peer-reviewed publications, over 30 technical reports, a book chapter, and have been an invited speaker on water quality research and MST over 50 times across the U.S., in the U.K. and in New Zealand. I also contributed substantially to the U.S. Environmental Protection Agency Microbial Source Tracking Guide Document. I am a reviewer for many scientific journals including Environmental Science & Technology, Microbiology and Journal of Applied Microbiology, and am a member of the editorial review board of Applied & Environmental Microbiology. I have served on state and federal grant panels including Sea Grant, National Oceanic and Atmospheric Administration (NOAA) and the United States Department of Agriculture (USDA), and have been awarded over \$3 million in grant funding from various agencies including the National Science Foundation, NOAA, Sea Grant, USDA, United States Environmental Protection Agency (USEPA) and National Institutes of Health. My current funding for MST and related environmental microbiology research totals over one-half