

Katherine von Stackelberg

Ms. von Stackelberg holds a B.A. from Harvard College, an M.S. from the Harvard School of Public Health Environmental Science and Risk Management program, and is currently completing her Sc.D. at the Harvard School of Public Health.

Ms. von Stackelberg is the team leader for the quantitative modeling group at Menzie-Cura & Associates, Inc. She specializes in identifying and characterizing adverse effects associated with exposure to hazardous substances in the environment using statistical and spreadsheet modeling data analyses. Peer-reviewed publications include journal articles on the advantages of using probabilistic methodologies, such as Monte Carlo simulations, in risk analyses. She has authored and co-authored numerous consulting reports related to the quantification of multimedia exposures and risks and has presented papers at numerous conferences. Topics have included: the influence of gas-particle partitioning on exposures to heavy organic carcinogens, a composite risk index approach for the assessment of risks from municipal solid waste landfill gas contaminants, air pathway exposures and health risks of processing incinerator ash, and on the use of risk assessment in environmental impact statements in developing countries.

She was the technical lead and Project Manager in developing a probabilistic food chain model, FISHRAND, for the Hudson River RI/FS. The work included developing a joint distributional analysis in which exposure concentrations and effects concentrations were expressed as probability distributions to quantify population-level effects. She is also the technical lead and Project Manager under a series of projects for the Army Corps of Engineers evaluating sources of uncertainty and variability and how they might be addressed in the management of dredged materials. These projects have included evaluating and ranking sources of uncertainty contributing to ecological risk assessment, a quantitative evaluation of sources of uncertainty in trophic transfer, and the development of *TrophicTrace*, a tiered spreadsheet tool to quantify potential human health and ecological risks via fish ingestion associated with dredged materials.