Stella Wang
Scientist

Education and Credentials

M.E.M., Ecotoxicology & Environmental Health, Duke University, Durham, North Carolina, 2020

B.S., Environmental Science, Duke University, Durham, North Carolina, 2019

Professional Affiliations

Member of Society of Environmental Toxicology and Chemistry

Professional Profile

Ms. Stella Wang is an environmental scientist with training in chemistry, toxicology, and risk assessment. She complements her experience in analytical chemistry research with quantitative data analyses. By utilizing her strengths related to research and data management, Ms. Wang effectively supports a wide variety of projects.

Relevant Experience

Toxicology and Risk Assessment

Risk Assessments for Former Wood Treatment Facility, Mississippi—Assisting in human health and ecological risk assessments for a former wood treatment facility. Work includes chemical screening, developing exposure parameters, compiling toxicity criteria, calculating receptor risks, and using in-house R statistical programming upper confidence limit (UCL) and risk assessment calculation tools. Chemicals of concern include PAHs and dioxins/furans.

Assessment of Pesticide Use, Tule Lake and Lower Klamath National Wildlife Refuges, California—Contributing to a multiyear project with federal agencies in developing pesticide use profiles for several active ingredients. Evaluating the potential toxicological effects of pesticide use on wildlife resources using publicly available data from EPA ecological risk assessments, USDA pesticide use risk assessments, the Pesticide Action Network (PAN) Pesticide Database, the Office of Pesticide Programs (OPP) Pesticide Ecotoxicity Database, CompTox, and ECOTOX.

Evaluation of Brass Rod Alloy Products for Proposition 65 Compliance, California—Supported assessment of consumer and worker exposures to a number of brass rod alloy–based plumbing fittings containing lead, a California Proposition 65–listed chemical. Researched exposure models and parameter values for chemical intakes resulting from drinking water ingestion and hand-to-mouth transfer exposures.

Frenchtown Mill, Missoula, Montana—Assisted with ecological and human health risk assessments by identifying data gaps relevant to the remedial investigation, risk assessments, and feasibility studies.

31 West 34th Street
Suire 7196
New York, NY 10001

212.440.6704
swang@integral-corp.com

Human Health Risk Assessment for Extended Floodplain, New York—Participated in human health risk assessment for an extended river floodplain area in New York State where PCBs are the chemical of concern. Completed review of current and anticipated future use for study area parcels.

1,2,3-Trichloropropane (TCP) Toxicity Assessment—Supported a critical assessment of EPA's toxicological review for 1,2,3-TCP. Compiled available maximum contaminant levels and risk-based screening levels for 1,2,3-TCP. Conducted reviews of 1,2,3-TCP toxicity literature.

Technical Review of Vanadium Public Health Goal—Reviewed EPA's public health goal for vanadium. Evaluated available noncancer toxicity criteria and the underlying toxicity data. Assessed the relative contributions from various media to evaluate the use of a default relative source contribution term.

Product Stewardship

Improving the Sustainability Profile of a Portfolio of Consumer Products, U.S.—Assessed the biodegradability and ecotoxicity of chemical ingredients of interest to the client using the European Chemicals Agency (ECHA), ECOTOX, National Industrial Chemicals Notification and Assessment Scheme (NICNAS), and CompTox databases. Grouped ingredients according to chemical structure and determined surrogates appropriate for read-across. In cases where data were lacking, used ECOSAR and EPISUITE to model data.

Analysis of Monitoring Data of Fragrance Material in Surface Waters, U.S.—Evaluated the monitoring data available for the fragrance material 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta[g]-2-benzopyran (HHCB) by gathering surface water data from the National Water Information System (NWIS). Compared data from 2015–2021 to literature data to determine whether environmental concentrations had changed in recent years.

Litigation Support

Human Health Risk Assessment regarding PCBs, Multiple U.S. Locations—Providing technical support for data analysis of PCB concentrations in surface water, sediment, and fish, including calculation of UCLs using EPA's ProUCL software. Researching exposure parameter values associated with fish consumption, recreational activities, and demographics. Conducting quality assurance review of probabilistic human health risk assessment.

Exposure Assessment regarding PCBs, U.S.—Assisting with data management, analysis, and visualization regarding potential exposure to PCBs via inhalation of indoor air. Supporting preparation of expert reports.

Exposure Analysis based on Fate and Transport of Landfill Gas, Louisiana—Analyzing and visualizing frequency, duration, and concentration data related to potential exposure of communities to gas emitted from a nearby landfill. Performing various quality assurance tasks in support of expert report.

Data Analytics and Statistics

R Statistical Programming—Experience with R programming language to analyze and visualize data in support of litigation, ecological risk assessments, human health risk assessments, and other client projects.

Presentations/Posters

Wang, S., P. DeLeo, D. Ferrer, and A. Lapczynski. 2021. Analysis of monitoring data for the fragrance material HHCB in surface waters of the United States from 2015-2021. Poster presentation at SETAC North America 42nd Annual Meeting, SciCon4 Virtual Meeting. November 14–18.