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Kim Reynolds Reid

Principal Scientist

Ms. Reynolds Reid is a senior environmental chemist with over 20 years of experience evaluating and interpreting laboratory data, designing and providing quality assurance oversight of sampling and analysis programs, and determining the validity and usability of chemical data. More recently, she has been focusing her expertise on product safety evaluations, green chemistry, and chemical hazard assessment. Her responsibilities at Gradient include providing technical support to hydraulic fracturing and human health and ecological risk assessment projects, as well as quality assurance, forensic chemistry, and data interpretation projects. She applies her laboratory experience and knowledge of laboratory preparation and sampling techniques to the interpretation of inorganic, wet chemistry, and organic data generated in support of environmental forensic studies, risk assessment, and litigation. Ms. Reynolds Reid has previous experience as an inorganic analyst at Enseco's Erco Laboratory, where her responsibilities included sample preparation for trace metals, wet chemistry analyses, and training in GFAA and ICP analyses.

Areas of Expertise

- Environmental Chemistry
- Product Safety
- Sampling & Analysis Design
- Inorganic/Organic Data Interpretation
- Quality Assurance Oversight Services
- Project Management

Services

- Chemistry/Forensics
- Data Quality Management
- Global Chemical Registration
- Biocompatibility Analysis
- Sustainability Consulting
- Third-Party Profiling
(GreenScreen®, EPA Safer Choice, Chemforward)
- Alternative Analysis

Education

- B.A., Biology,
State University of New York at Potsdam
- Ph.D. Candidate, Boston University

Selected Projects

CPSIA Lead Exclusion Petition: Managed a project involving potential exposure to lead-containing components under several contact scenarios. Assisted in preparing a petition to the US CPSC for exclusion of the lead-containing components from certain requirements of the Consumer Product Safety Improvement Act (CPSIA).

Green Chemistry Assessment: Managed and provided technical support for an alternatives assessment of a product using criteria outlined by US EPA's Design for the Environment (DfE) program. The evaluation was submitted for US EPA third-party review.

Arsenic in Dietary Supplement: Assisted in design and provided QA oversight for a specialized sampling and analysis program involving arsenic speciation in a dietary supplement. The results were used to determine potential human health impacts.

PCB Fingerprinting: Provided analytical chemistry oversight and technical support for a cost recovery case involving polychlorinated biphenyls (PCBs) at a transportation facility. Reviewed and analyzed PCB congener (fingerprinting) data.

PCB Chemistry Oversight: Provided chemistry consulting and oversight of data quality issues at a transformer manufacturing plant being investigated for PCBs and dioxins/furans while undergoing remediation for PCBs. Compared extensive field chemistry PCB results with fixed laboratory results.

Arsenic in Mine Tailings: Managed and performed QA/QC oversight for an investigation involving potential residential exposure to arsenic in mining tailings. Reviewed arsenic data results, designed sampling and analysis programs for further site investigations, and performed risk assessment.

Analytical Program QA Oversight: Provided QA/QC oversight for a complex analytical program in support of the decommissioning of a nuclear plant in Massachusetts. Wrote a QAPP, coordinated with validators, and performed a comprehensive usability assessment of site data in support of ecological and human health risk assessments.

Selected Publications

Wait, AD; **Reid, KR**. 2012. "Defenseless without defensible data." *For the Defense* 54(1):78-83,88.

Lewis, AS; **Reid, KR**; Pollock, MC; Campleman, S. 2011. "Speciated arsenic in air: Measurement methodology and risk assessment considerations." *J. Air Waste Manage. Assoc.* 62(1):2-17.

Saxe, JK; Bowers, TS; **Reid, KR**. 2006. "Arsenic." In *Environmental Forensics: Contaminant Specific Guide*. (Eds.: Morrison, RD; Murphy, BL), Academic Press, Burlington, MA, p279-292.

Slayton, TM; Beck, BD; **Reynolds, KA**; Chapnick, SD; Valberg, PA; Jost, LJ; Schoof, RA; Gauthier, TD; Jones, L. 1996. "Issues in arsenic cancer risk assessment." *Environ. Health Perspect.* 104(10):1012-1014.