



Jennifer Liggett

GLOBAL PRINCIPAL FOR DRINKING WATER QUALITY

Jennifer is the Global Principal for Drinking Water Quality in the Drinking Water & Reuse Solutions team. Jennifer has over 15 years of experience with water quality and corrosion research, regulatory compliance, and drinking water quality issue mitigation from her work with USEPA and Jacobs. Jennifer researched the effects of water quality on pipe corrosion in premise plumbing during her 7 years as a contracted research chemist and a master's research trainee to the USEPA Office of Research and Development in Cincinnati and has provided regulatory compliance consulting services for water systems at Jacobs. Jennifer has supported water systems, data centers, medical centers, and naval installations with water quality control in source water, distribution systems and buildings.

She is a co-author of *“Impact of water quality on chlorine demand of corroding copper”* in Water Research, *“Preventing Disease from Legionella is a Shared Responsibility”* in Opflow, and first author of *“Service Line Material Identification: Experiences from North American Water Systems”* in JAWWA and *“Applying Microelectrodes to Investigate Aged Ductile Iron and Copper Coupon Reactivity during Free Chlorine Application”* submitted to Water Research.

EDUCATION/QUALIFICATIONS

PhD, Environmental Engineering, University of Colorado-Boulder (*in progress*)

Master of Science, Environmental Science, University of Cincinnati 2015

Bachelor of Science, Environmental Studies, University of Cincinnati 2008

MEMBERSHIPS AND AFFILIATIONS

AWWA Lead and Copper Rule Technical Advisory Workgroup Member

AWWA Distribution System Water Quality and Premise Plumbing Committee Member

AWWA Lead in Water Subcommittee Past Chair

AWARDS/HONORS

2016 AWWA Academic Achievement Award

2014 Holly A Cornell Scholarship

LANGUAGES

Spanish – Intermediate

OTHER

- Length of service in the profession: 15 years
- Year joined Jacobs: 2015
- Office location: Greenwood Village, CO

Relevant Project Experience

American Water Works Association WITAF #074, Denver, CO

Client: American Water Works Association

Title: Drinking Water Technologist

Start/End Dates: April 2022 - present

Scope/Description: Development of technical memorandum determining the impact of galvanized service lines on inventory and service line replacements

Responsibilities: Technical expert, project manager, and project lead. Review of technical memorandum for quality assurance and technical accuracy. Client coordination.

American Water Works Association WITAF #067, Denver, CO

Client: American Water Works Association and Lead Service Line Replacement Collaborative

Title: Drinking Water Technologist

Start/End Dates: December 2021 – June 2022

Scope/Description: Development of website content focused on equity based prioritization of lead service line replacements

Responsibilities: Technical expert, project manager, and project lead. Review of website content for quality assurance and technical accuracy. Client coordination.

LCRR Programs City of Newport, Rhode Island & Wilmington, Delaware & Wisconsin DNR

Clients: Newport Water Division, City of Wilmington Department of Public Works, Wisconsin DNR

Title: Drinking Water Technologist

Start/End Dates: March 2022 – present

Scope/Description: Program and technical support for Lead and Copper Rule Revisions

Responsibilities: Technical expert and project QA/QC. Review of technical content for deliverables and compliance.

LCRR Programs Salt Lake City Department of Public Utilities, Utah & Confidential Client, USA

Client: Salt Lake City Department of Public Utilities & Confidential Client

Title: Drinking Water Technologist

Start/End Dates: September 2020 – present

Scope/Description: Program and technical support for Lead and Copper Rule Revisions

Responsibilities: Technical expert and project lead. Development of compliance plans and consulting service for compliance with the revised Lead and Copper Rule. Program and project management

Department of Water Management Lead Sampling, Chicago, Illinois

Client: City of Chicago Department of Water Management

Title: Drinking Water Technologist

Start/End Dates: April 2016 – October 2016

Scope/Description: Management and development of lead sampling program.

Responsibilities: Developed a lead sampling program for the Water Quality Surveillance Section at the Jardine Water Purification Plant in response to increased customer requests and Lead and Copper Rule compliance. Worked with IT and GIS specialists to develop websites, reporting applications, data collection applications, and database structures to collect and manage customer data. Reviewed data received from customer samples and provided input on water quality and corrosion mechanisms.

Office of Research and Development Laboratory Support Service, Cincinnati, Ohio

Client: USEPA Office of Research and Development

Title: Research Chemist with Pegasus Technical Services and Masters Trainee

Start/End Dates: March 2008 – August 2015

Scope/Description: Lab support for Work Assignment Manager, Pegasus Technical Services (on-site contractor to the USEPA) and Masters Traineeship Program.

Responsibilities: Conducted lead and copper corrosion bench-top experiments and coupon studies. Maintained and collected data on a re-circulating copper loop system to evaluate corrosion fundamentals for regulatory compliance. Maintained and collected data on a re-circulating iron pipe system to elucidate arsenic adsorption to iron pipes. Developed reports and technical memoranda discussing distribution and premise plumbing pipes and water samples sent from communities and various distribution centers. Fabricated and applied dissolved oxygen, pH, free chlorine, and monochloramine microelectrodes to analyze surface water chemistries of corroded iron and copper coupons.