

Catherine Davis
443-221-8325
Davis.katie@epa.gov

Biologist | U.S. Environmental Protection Agency, Office of Water | Washington, DC | 2022-present

- Manage \$600,000 task order for processing over 700 fish tissue samples for multiple analyses for statistical survey and assessment of contaminants impacting human health through recreational fishing in U.S. estuaries and the Great Lakes; coordinate with contractors, collaborate with states, review and update technical documents, communicate with management.
- Evaluate stakeholder adoption and usefulness of web application tool developed by EPA for surveying recreational waters, will make final recommendations to senior leadership on whether and how to continue to support project.
- Facilitate quarterly National Recreational Water Quality call and assist with quarterly National Fish and Shellfish call for state, territory and Tribes audience
- Developed technically and scientifically sound revisions of national fish and shellfish consumption advisory guidance, communicated and collaborated with experts and stakeholders to convert 700 pages of a 24 year old multi-volume text to useful webpages.
- Drafted Report to Congress submitted on time by EPA Administrator, worked collaboratively across EPA and with leadership, developed schedule and shepherded document through lengthy review process, created strategy for future reports in response to four year old Office of Inspector General recommendations resulting in removal from OIG audit list.
- Completed 15 month part-time detail as One Health Program Analyst for EPA One Health Coordination Team, created and gave presentations to multiple entities at EPA, designed posters to communicate One Health approaches at EPA and One Health approach for mercury monitoring, contributed to crosswalk of EPA Strategic Plan and EPA One Health priorities.
- Reviewed abstracts and organized sessions focused on PFAS for a multi-day national forum on fish contaminant issues with over 700 attendees from government agencies and academia

Life Scientist (Ecological Risk Assessor) | U.S. Environmental Protection Agency | Ft Meade, MD and Philadelphia, PA | 2003-2022

- Established and maintained effective collaborative working relationships with over 80 Superfund site teams on complicated multi-year contaminated site projects.
- Completed over 100 technical reviews annually and composed comment letters for Superfund site documents – Work Plans, Tech Memos, Ecological Risk Assessments, Remedial Investigations, Feasibility Studies, Proposed Plans, and Records of Decisions.
- Conducted Five Year Reviews as a part of scores of Superfund site teams to evaluate success of remedial design by measuring effectiveness of the remedy and to ensure compliance with Superfund guidance, contributed to sample design strategy, coordinated with states and site owners, reviewed final report which included data analysis, key findings and future recommendations.
- Provided guidance, assistance, ecological advice, and expertise to Remedial Project Managers utilizing Superfund policy and guidance.
- Developed detailed plans, provided oversight and technical advice for ecological field sampling, data collection and monitoring programs and exercised data-driven decision making.

- Analyzed, interpreted, and evaluated scientific and environmental data in technical reviews for validity, accuracy, and completeness of assessments and conclusions.
- Collaborated with EPA, US Navy, and state colleagues to author a white paper on analytical methodologies for Superfund sites.
- Conducted science synthesis through literature review and hierarchy development to produce defensible ecological screening level values for various media used in the ecological risk assessment process for US EPA Region 3.
- Served as spokesperson at public meetings and conferences for ecological risk and project work at Superfund sites, briefed management on technical issues, presented technical information at national risk assessor conferences.
- Applied in daily work extensive knowledge and understanding of site investigation methods, toxicology, contaminant fate and transport, food chain modeling, research design, statistics, hydrogeology, aquatic ecology, soil science, remedial design, restoration and natural resource protection practices and principles.
- Created, organized, and edited text based on extensive research and provided design input for updated guidance on Risk Communication for Fish Consumption Advisories website for use by states during a detail with EPA Office of Water.
- Conducted initial petition review for citizens' group which concerned possible health impacts from an underground natural gas storage operation during six-month detail with the Agency for Toxic Substances and Disease Registry.
- Assistant Safety Officer for Hurricane Katrina emergency response.

Education:

Rutgers University

New Brunswick, NJ

Master's degree

Major: Environmental Science

Wake Forest University

Winston-Salem, NC

Bachelor's degree

Major: Biology