

# Résumé

## Sarah Lynn Cunningham, PE Environmental Engineer and Educator

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### Summary Profile

Via my interdisciplinary education, experience and talents, I offer the technical problem-solving abilities of an engineer, the communication skills of an educator, the creativity of an artist and the enthusiasm of an advocate.

### Employment History

**Executive Director**, Louisville Climate Action Network, 2007 to present

Leads staff providing education, advocacy and services programming.

**Freelance Consultant and Instructor**, January 2005 to December 2021

Taught University of Louisville's CEE 681—Green Engineering and Sustainable Design, and CEE 309—Introduction to Environmental Engineering. Has taught the UofL Honors Scholars Seminar in green design. Provides clients with environmental engineering, teaching, research, technical writing, expert witness and facilitation services.

**CERES Principles Engineer**, Louisville & Jefferson County (KY) Metropolitan Sewer District, Executive Offices, December 1993 to December 2004 (retired from civil service)

Assisted Executive Director with shaping a culture of best practices, where employees believed management welcomed and listened to shop-floor ideas. Facilitated and coordinated the progressive implementation of MSD's commitment to the CERES Principles (Coalition for Environmentally Responsible Economies), including environmental management systems (EMS), environmental auditing, biosolids management (e.g., participation in the National Biosolids Partnership), energy efficiency (E2), pollution-prevention (P2), environmental education and public participation with citizen environmental groups. Participated on teams responsible for planning and overseeing construction of capital projects (up to \$65 million). Provided tailored education programs to student, adult and community groups, showing each audience what MSD's public health mission meant to their lives and/or classroom learning. Created the award-winning After We Flush fieldtrip program for 5<sup>th</sup> graders to tap kids' interest in poop to meet interdisciplinary learning standards. Designed needs-based agendas for and led visits from international peers.

**Planning Engineer**, MSD Engineering Division, June 1990 to December 1993

Reviewed, critiqued and approved connection requests, and plans and specifications for expanded and new wastewater treatment plants. Wrote small treatment plant design standards. Managed pilot composting project.

**Water Pollution Control and Office Paper Recycling Programs Manager**

Louisville & Jefferson County Board of Health, January 1985 to June 1990

Regulated the operation, maintenance and effluent quality of 500 wastewater facilities, by supervising inspection, enforcement and stream monitoring. Oversaw design and development of PC-based enforcement tracking system. Drafted regulation revisions. Organized and managed office paper recycling program. Advised businesses, institutions and governmental agencies on office and community recycling programs. By improving staff training, follow-through on orders for correction and prosecution, my team and I reduced recidivism, and improved local water quality and public health.

**Environmental Engineer**, Division of Water, KY Dept of Environmental Protection, Frankfort, KY, September 1981 to January 1985

Wrote plain-English field handbook for the coal industry, outlining required erosion prevention and pollution control measures; supervised illustration. Assisted with similar construction industry handbook. Approved compliance plans for POTWs (publicly owned treatment works). Surveyed statewide wastewater facility needs, costs and financial impacts; analyzed data and proposed financing methods. Studied on-site wastewater treatment technologies, and drafted policy revisions.

### **Education and Certifications**

**Master of Science**, Interdisciplinary Studies, with a major in environmental education and a minor in environmental history, University of Louisville, 2006

**Bachelor of Applied Science**, Environmental Engineering, University of Louisville, 1981

**Professional Engineer**, Commonwealth of Kentucky, License #16592

**Nonformal Environmental Educator**, Commonwealth of Kentucky, 2006 (expired)

References, continuing education courses, writing samples, teaching tools, auditing scopes, media experience, international technical assistance, undergraduate cooperative-internship and part-time employment, language proficiencies, honors, fellowships, scholarships, community and professional involvement and travel history available on request.