Daniel J. Murray, Jr., P.E., Senior Environmental Engineer in EPA's National Risk Management Research Laboratory

Water Systems Division
Mailing Address

Murray.Dan@epa.gov

Areas of Expertise:

- Condition assessment, rehabilitation, and replacement of aging water infrastructure, specializing in wastewater collection systems;
- Identifying, evaluating, and adopting innovative technologies for the management and control of wet weather flows.

Select Publications:

Kertesz, R., L. Rhea, and Dan **Murray**. Spatial and temporal structure within moisture measurements of a stormwater control system. Journal of hydrology. Elsevier Science Ltd, New York, NY, 516:222-230, 2014.

Crow, M. and Dan **Murray**. Peak Stress Testing Protocol Framework. US EPA Office of Research and Development, Washington, DC, EPA/600/R-14/046, 2015.

RamMohan, G., T. F. Speth, D. J. **Murray**, and J. L. Garland. Municipal Wastewater: A Rediscovered Resource for Sustainable Water Reuse. Chapter 6, The Handbook of Environmental Chemistry, Volume 30, Potable Water: Emerging Global Problems and Solutions. Springer International Publishing AG, Cham (ZG), Switzerland, 30:153-179, 2014.

Murray, Dan, S. Panguluri, G. Skipper, and S. Donovan. Demonstration of Innovative Sewer System Inspection Technology SewerBatt. U.S. EPA Office of Research and Development, Washington, DC, EPA/600/R-14/081, 2014.

Murray, Dan, S. Panguluri, G. Skipper, and S. Donovan. Demonstration of Innovative Sewer System Inspection Technology: SL-RAT. U.S. EPA Office of Research and Development, Washington, DC, EPA/600/R-14/031, 2014.

View more research publications by Daniel J. Murray.

Education:

- M.S., Northeastern University, Boston, MA; Civil/Environmental Engineering, 1993
- B.S., Merrimack College, North Andover, MA; Civil/Environmental Engineering, 1977

Professional Experience:

Workgroups and Project Leads

- Intergovernmental Personnel Agreement assignment to the Metropolitan Sewer District of Greater Cincinnati (MSDGC), 2015-present
    - Provide expert advice to senior management and engineering staff on the adoption of innovative technologies for management and treatment of wet weather flows at District treatment facilities and remote combined sewer overflow sites.

    - Leading the design and implementation of wet weather treatment performance monitoring systems to evaluate treatment effectiveness and recommend system improvements to increase efficiencies and system optimization.
- Project advisory committee member of the European Commission's "Transitions to the Urban Water Services of Tomorrow" (TRUST) research program. TRUST is a 4-year, €7-million research program to provide innovations in governance, modeling, technologies, decision-support, and novel approaches for integrated water, energy and infrastructure asset management, 2012-2015
- Development and implementation of EPA's Aging Water Infrastructure Research Program, a 5-year initiative based on the strategic asset management framework and the investigation and demonstration of emerging and innovative technologies for condition assessment and rehabilitation/replacement, 2005

Committees and Affiliations

- Water Environment Federation, National Collection Systems Committee; Watershed & Wet Weather Technical Bulletin, Past Editorial Review Board Member
- Ohio Water Environment Association, Collection Systems Committee
- Registered Professional Engineer in Massachusetts and Ohio
- American Academy of Environmental Engineers Board Certified Environmental Engineer

Awards and Honors:

- Ohio Water Environment Association and Water Environment Federation, Golden Manhole Award, 2012 and 2017
- U.S. EPA Gold Medal for Exceptional Service for work in supporting the development of the Agency's CSO Policy, 1995