

Project Highlights

- Support of MSDGC's sustainable engineering initiatives.
- Significant reduction of stormwater from MSDGC's combined sewer system.
- Naturalized channels for stormwater removal in lieu of traditional grey infrastructure.
- Bioswales, bioretention basins, and floodplain enhancements.

Services Provided

- Planning
- Design
- Cost Estimating
- Risk Management
- Data Analysis

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Environmental Program Management:

RA staff members have served MSDGC's Environmental Program Management (EPM) group providing engineering and support services for sustainable engineering projects. RA staff have provided engineering and project management services in the Lick Run and West Fork watersheds as part of the Revised Lower Mill Creek Partial Remedy. RA managed the Rapid Run Source Control project on behalf of MSDGC. The project includes 1,600 LF of bioswales, and 1,900 LF of storm sewer ranging from 12 to 24 inches in diameter. Ultimately, the proposed project will offload 14.6 MG of storm water from the combined sewer system. The projected construction cost is \$1,800,000.

RA also managed other projects such as the Queen City and Cora Avenues R/W Sewer Separation, the Quebec Heights Sewer Separation, and the Harrison Ave Early Success Project. These projects utilized various forms of sustainable infrastructure Best Management Practices. Two of these, including Queen City & Cora R/W Sewer Separation, utilize sealing existing storm inlets to daylight storm flow to a naturalized channel. The projected construction cost is \$2,600,000.

Supported the West Fork Creek Riparian/ Floodplain Restoration project. The project is located on 0.8 acres of land purchased by Hamilton County through a FEMA grant. The total project cost was \$350,000. The project received over \$200,000 in grant money from OPWC through the Clean Ohio Fund.

Coordinated with EPA Region 5 to update MSD's demolition specifications to make them more "sustainable" (e.g. requirements for tracking waste streams, specified fill materials, etc.). MSD PM for the deconstruction and salvage of 12 properties in South Fairmount and the (upcoming) full structure deconstruction of 6 buildings (and traditional demolition of 14 more).

Created rainwater harvesting modeling program for MSD and public/private entities to estimate rainwater capture potential and helped update Cincinnati Municipal Code language to allow wider use of rainwater harvesting.

Managed the CSO 217/483 Source Control Phases A-C which is part of the Lower Mill Creek Partial Remedy. The source control solution includes five detention basins, conversion of portions of the combined system to a storm sewer, strategic separation via installation of 7,200 linear feet of combined sewers and 5,700 linear feet of storm sewers.