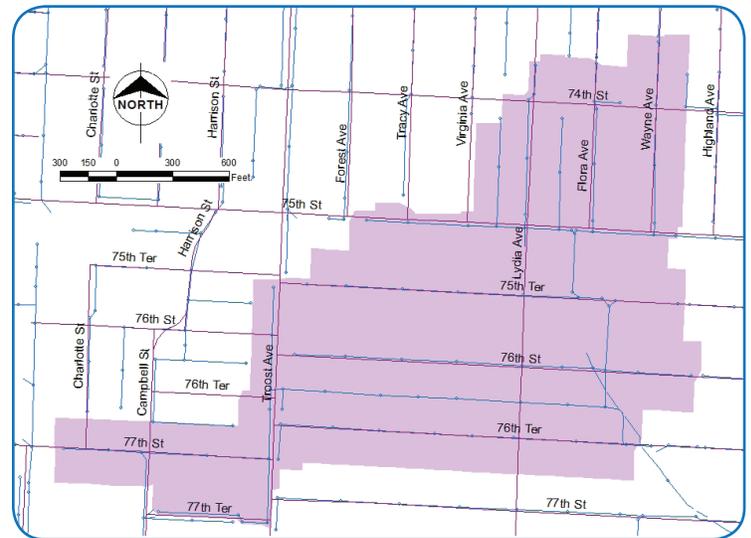


Middle Blue River Basin Green Solutions Pilot Project



What is the Middle Blue River Basin Green Solutions Pilot Project?

Kansas City's Middle Blue River Basin Green Solutions Pilot Project is the first green infrastructure project to be completed as part of the City's 25-year Overflow Control Program, which is designed to improve water quality by reducing the frequency and volume of sewer overflows. Kansas City's Overflow Control Program represents the largest infrastructure investment in Kansas City's history. The Program's city-wide approach to addressing sewer overflows will improve water quality, support local workforce development, and is the first federally approved Consent Decree to incorporate green solutions such as the improvements implemented as part of the Middle Blue River Basin Green Solutions Pilot Project.



Pilot Project Area Boundaries

Why is the Pilot Project Significant?

The Middle Blue River Basin Green Solutions Pilot Project allows Kansas City to examine the effectiveness of green infrastructure solutions in addressing sewer overflows. The Pilot Project tested a wide range of infrastructure solutions and streetscape improvements throughout the 100-acre area of the Middle Blue River Basin located between 74th and 78th Streets and between Troost Avenue and Paseo Boulevard.

Kansas City residents collaborated with design and construction professionals, City representatives, and local utility companies to maximize the benefits of the completed project. The project included green infrastructure installments, sewer system rehabilitation and street improvements. These improvements not only improved water quality in this area, but have also enhanced the natural beauty of the Marlborough Neighborhood and helped encourage private investment.

For more background about the Pilot Project visit:

<http://youtu.be/pi7WHysURGs> 

Green Infrastructure Installations

1,100
Linear Feet
Permeable Pavers



4,300
Linear Feet
Porous Sidewalk



67
Rain Gardens



2
Cascade
Rain Gardens



28
Curb Extension
Rain Gardens



36
Bioretention
Rain Gardens



Pilot Project Results



What Was the Result of the Completed Pilot Project?

Monitoring of the Pilot Project during the first year of installation indicates that the improvements in this area are effective in reducing the amount of rainwater entering the combined sewer system, which in turn helps prevent overflows. Overall, the Pilot Project's benefits include:

- ◆ Improved water quality;
- ◆ Reduced peak stormwater volume at Pilot Area Outlet;
- ◆ Reduced peak stormwater flow at Pilot Area Outlet;
- ◆ Repair of 75-year old sewers to "like new" conditions;
- ◆ Increased community green space;
- ◆ Replacement of aging trees;
- ◆ Traffic calming through the installation of curb extensions;
- ◆ Replacement of sidewalks, street curbs and gutters, and street resurfacing; and
- ◆ Enhanced neighborhood beautification and community pride.

What Happens Next?

The positive results and the lessons learned from the Middle Blue River Basin Green Solutions Pilot Project will be used to effectively install additional green infrastructure solutions throughout Kansas City. As part of the Overflow Control Program, Kansas City Water Services is working with local partners to design similar solutions for the adjoining 644 acres in the Middle Blue River Basin which will begin construction in the spring of 2015.

Maintenance and monitoring of the Middle Blue River Basin Green Solutions Pilot Project will continue for years to come. The Pilot Project has become a national example of effective green solutions for the improvement of regional water quality. Kansas City Water Services is committed to improving area water quality through the investment of more than \$4.5 to \$5.0 billion over the span of the 25 year Overflow Control Program.



Pilot Project Improvement Costs

**Sewer Rehabilitation
& Construction**

\$2,967,094

Street Improvements

\$1,420,000

Green Infrastructure

\$6,023,217

For more information, please visit the Kansas City Water Services website at:
www.kcwaterservices.org/overflow-control-program