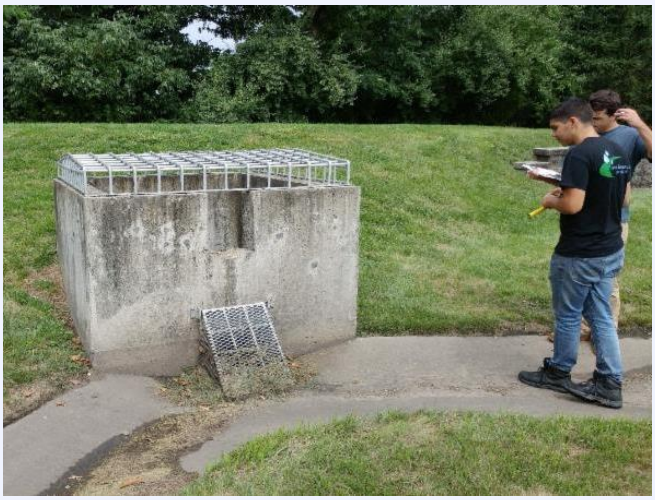
Rutgers Cooperative Extension (RCE) Water Resources Program
Water Pages eNewsletter

RUTGERS
New Jersey Agricultural Experiment Station

Hamilton Township Hydrologic Evaluation and Water Resources Recommendations



The Rutgers Cooperative Extension (RCE) Water Resources Program continued its ongoing partnership with Hamilton Township in Mercer County for its seventh year. During 2017, the RCE Water Resources Program staff and student interns continued to monitor and document the condition of stormwater basins and outfalls. This year, an additional 100 stormwater facilities were mapped and added to a digital database. Inspections of over 75 basins and 50 outfalls were also completed. Partners are working to develop a restoration plan for flood prone areas to protect residents and minimize risk for Township personnel and first responders. In the Pond Run Watershed, rainfall and flow are being monitored to better understand stream responses during storm conditions so that modeling can better predict the frequency and extent of flooding. Educational and technical assistance programs are also being planned and scheduled for next year. Through our municipal partnership, the RCE Water Resources Program looks forward to continuing to assist homeowners and residents to adopting green infrastructure practices that protect water resources and reduce flooding in Hamilton Township.

Green Infrastructure Municipal Outreach and Technical Assistance Program: A Partnership between Passaic Valley Sewerage Commission and the RCE Water Resources Program

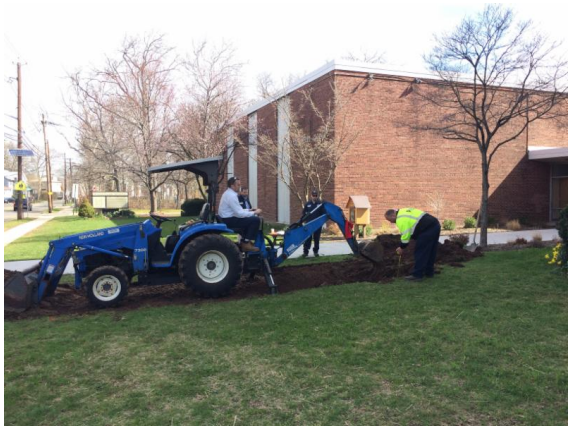
The Green Infrastructure Municipal Outreach and Technical Assistance Program is moving on to its fifth year of service to the 48 municipalities served by the Passaic Valley Sewerage Commission (PVSC). The program began in 2013 as a partnership between PVSC and the RCE Water Resources Program. The goal of the program is to provide guidance and direction regarding the benefits of and opportunities for

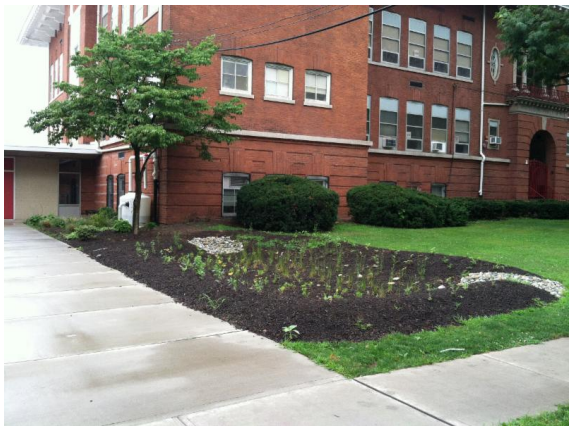
implementing green infrastructure practices throughout the PVSC service area.

We would like to thank all of our partners and celebrate the notable accomplishments from the past four years:

- A total of 39 municipal-wide green infrastructure feasibility studies have been completed.
- A total of 25 municipalities have met with the project team to discuss green infrastructure partnership opportunities in their respective communities.
- A total of 13 municipalities have committed to installing two (2) green infrastructure projects in their communities.
- Representatives from Bergen, Essex, Hudson, and Passaic Counties have met with project partners to discuss green infrastructure opportunities.
- Seven (7) green infrastructure workshops, trainings, and presentations have been held and attended by over 200 community participants.
- Seven (7) educational programs for youth have been delivered, and over 150 youth in the service area have participated in these programs and demonstration green infrastructure projects at their schools.
- Six (6) demonstration green infrastructure projects have been installed by the PVSC River Restoration Team and the RCE Water Resources Program in Bayonne, Bloomfield, Kearny, Newark, and Paterson.

PVSC and the RCE Water Resources Program continue to work with municipalities in the service area to update green infrastructure feasibility studies and provide guidance on green infrastructure projects and policies. We look forward to working with community leaders in moving beyond the planning phase to implement green infrastructure projects across the service area. In the fifth year of this program, the partners will continue to implement demonstration green infrastructure projects, provide support to municipal action teams, work to develop and expand partnerships in combined sewer system communities, and assist in developing a green infrastructure database to track projects in the service area. For more information about this program, please click here.





Happy Holidays!

From all of us at the RCE Water Resources Program!

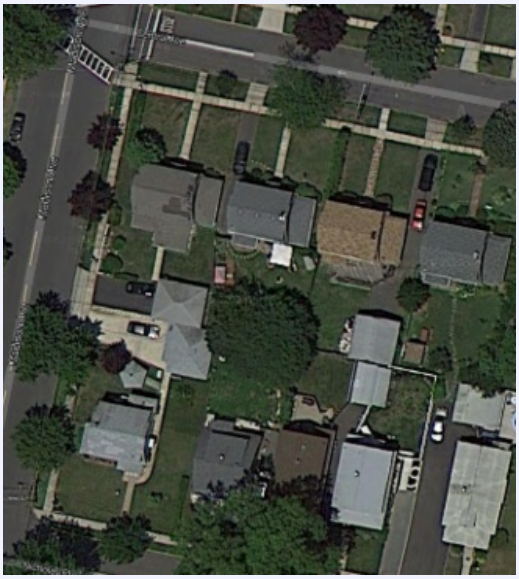
~Christopher, Jeremiah, Lisa, Sara, Rosana, Chris, Michelle, Hollie, Matt, Liz, Rahman, and Jason

Improving the Effectiveness of Green Infrastructure by Enhancing the Urban Tree Canopy: A McIntire-Stennis Project

The amount of tree canopy within a city has become a growing concern in municipalities worldwide as urbanization has led to land-use conversion and a corresponding loss of urban forests. Urban forests play important roles in improving air, water, and land quality, absorbing and mitigating carbon dioxide and many pollutants, lowering urban temperature, and reducing storm water runoff.

New Jersey is the most urbanized state in the United States. The RCE Water Resources Program has created regional stormwater management plans and watershed restoration and protection plans utilizing green infrastructure practices (urban tree planting, rain gardens, etc.) in New Jersey. Green infrastructure manages stormwater runoff from impervious surfaces in a cost-effective, sustainable, and environmentally friendly manner. Throughout New Jersey, green infrastructure can be used to reduce flooding, improve water quality, and reduce the occurrence of combined sewer overflows (CSOs). Green infrastructure projects capture, filter, absorb, and reuse stormwater to maintain or mimic natural systems and treat runoff as a resource.

As part of a McIntire-Stennis project, the RCE Water Resources Program is exploring the urban tree canopy of six communities – Camden, Jersey City, Newark, Paterson, Perth Amboy, and Trenton. Hydraulic models of each sewershed within each community will be created to quantify current stormwater loading on sewer infrastructure to determine high priority areas for stormwater reduction. The tree canopy and land cover of these cities will be analyzed to identify green infrastructure and tree planting opportunities. This information will be used to help develop tree canopy and green infrastructure goals for each municipality. These results will be shared with the established municipal action teams that have been developed in each community to assist in strategically identifying demonstration green infrastructure projects.



Complying with New Jersey Stormwater Regulations

Tuesday, January 16, 2018 via webinar starting at 6:30 pm

The program will highlight steps to guide you and your municipality to ensure that new development is in compliance with the New Jersey stormwater management regulations. The presentation will include a review of the Stormwater eLearning Tool.

Participation fee: $10, each webinar

To register please email ANJEC with name and affiliation, or call (973) 539-7547.
