

# PROTECTING PITTSBURGH'S WATER

## IMPROVING THE STEEL CITY'S NATURAL RESOURCES THROUGH ENHANCED GREEN STORMWATER INFRASTRUCTURE

**ETNA BOROUGH—SCHOOL STREET PARKING LOT; BUTLER STREET; GARDEN ALLEY**

**Year completed:** 2014–2015

**Product(s) Used:** R-Tank; FocalPoint Biofiltration System; open-joint permeable pavers

**Project Description:** Drainage enhancements via permeable surfaces and underground stormwater storage to reduce volume to sewer treatment plant. *School Street*—small-footprint FocalPoint biofilter with expanded R-Tank beneath parking area; *Butler Street*—porous concrete sidewalks with R-Tank storage below; *Garden Alley*—open-joint paver alleyway.



**ETNA BOROUGH—LOVE STREET; RAIN PARK**

**Year completed:** 2017

**Product(s) Used:** R-Tank HD Quads; R-Tank HD Pent; FocalPoint Biofiltration System; open-joint permeable pavers

**Project Description:** *Love Street*—an open-joint permeable paver alley with an expanded stormwater storage system underneath; *Rain Park*—A FocalPoint biofilter system with expanded stormwater storage beneath and a radial trench drain collection system upstream to deliver water to the biofilter.



**ETNA BOROUGH—BRIDGE STREET**

**Year completed:** 2018

**Product(s) Used:** Fabco StormBasin Cartridge Filter

**Project Description:** Cartridge-based filter inserts installed in curblin drains that sit on the frame of the drain structure to provide water quality treatment. Designed to trap TSS and remove phosphorus and nitrogen.



# WE COULD GREEN UP YOUR NEIGHBORHOOD.

## HILLCREST STREET & NORTH ATLANTIC AVENUE

**Year Completed:** 2017

**Product(s) Used:** R-Tank; Fabco inlet filters

**Project Description:** Attractive terraced curblines rain gardens catch and pretreat water before entering enhanced underground storage system for gradual infiltration.



## CENTRE AVENUE & HERRON AVENUE

**Year Completed:** 2017

**Product(s) Used:** R-Tank; Fabco inlet filters; Fabco domed overflow filters

**Project Description:** A terraced bioretention system comprising two tiers—each with an expanded R-Tank and domed overflow with filter inserts and supported by filter inserts in adjacent street drains.



## WIGHTMAN PARK

**Year completed:** 2020

**Product(s) Used:** R-Tank (combination of HD and UD modules); Fabco inlet filters

**Project Description:** Enhanced stormwater storage underneath a newly installed playground, paired with filters in upstream drain inlets. Complex layout and arrangement of modules to work around playground equipment foundations. Additional geogrid installed below the system to improve soft subgrade.



## HARVARD STREET & BEATTY STREET

**Year completed:** 2021

**Product(s) Used:** R-Tank; Fabco inlet filters

**Project Description:** A series of narrow, curblines rain garden systems with linear underground storage and domed overflows with filter inserts.

## MELWOOD AVENUE, FINLAND STREET & BETHOVEN STREET

**Year Completed:** 2018

**Product(s) Used:** R-Tank; R-Tank treatment rows; FocalPoint Biofiltration System; Fabco inlet filters; Rain Guardian Turret units

**Project Description:** A series of five curblines bioretention systems in a residential/commercial neighborhood; each system comprises Rain Guardian Turret units for pretreatment, expanded underground storage and filter inserts, both on the curblines and inside the domed overflow. Two of the five systems include FocalPoint modular biofiltration systems due to space constraints.



Ferguson Waterworks is grateful to our partners at the Pittsburgh Water and Sewer Authority, surrounding boroughs and local engineering consultants and landscape architects for their dedication and collaboration in improving Pittsburgh's water infrastructure.

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