

Meet the Presenters

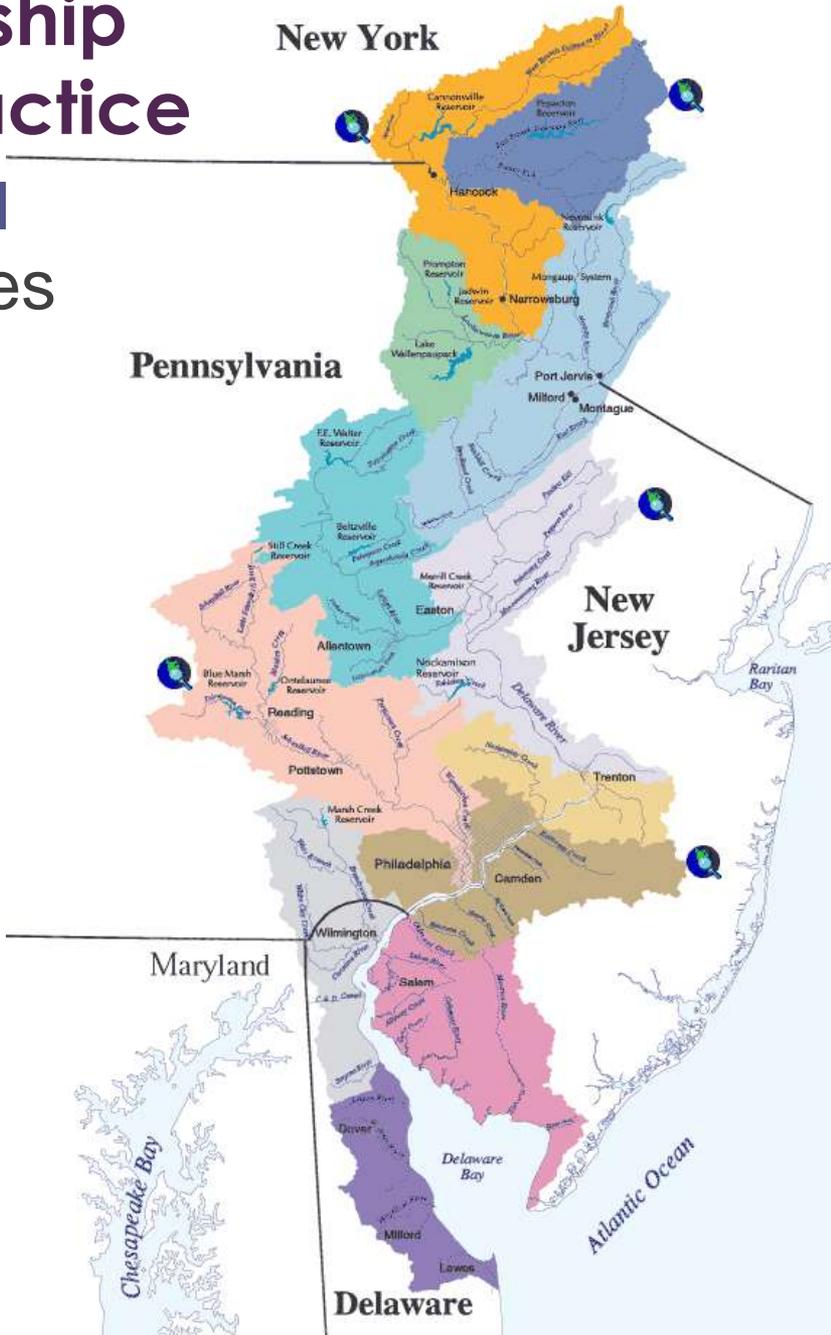


NJDEP Brownfield Project Manager (2004-present)
NJDEP Camden Collaborative Initiative (2013-present)
NJDEP Hydrogeologist (1988-2003)
BS Fairleigh Dickinson University, Chemistry (1985)
MS Rutgers University, Geological Sciences (1988)
MS Rutgers University, Environmental Sciences(2006)
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Urban Waters Federal Partnership Brownfields Community of Practice

- Large inventory of brownfield sites
- Brownfields: Strategic locations
- Great Opportunities
 - Economic Development
 - Stormwater Management
 - Reconnecting Communities
 - Habitat Restoration/Enhancement
 - Delaware River Watershed



In Camden & other communities... **ISSUES & PRIORITIES ARE LOCAL**



...issues don't match single-program approach

First Camden Collaboration...

Camden SMART 2011-2013



992 Trees
Planted

+



27 Green Infrastructure
Projects Installed

= **3.1 million**
gallons of
stormwater
captured annually



2014
Projects

=

>55
million
gallons of
stormwater
captured annually

www.CamdenSMART.com



Camden Collaborative Initiative

“...is a solutions-oriented partnership between governmental, non-profit, private, and community-based agencies formed to plan and implement innovative strategies to improve the environment and the quality of life of Camden's residents” (formalized 1/24/2013)

Voluntary collaboration between:

City of Camden

Cooper's Ferry Partnership

Camden County Municipal Utilities Authority

NJDEP

USEPA



Draft, Work In Progress, & For Discussion

Purposes Only

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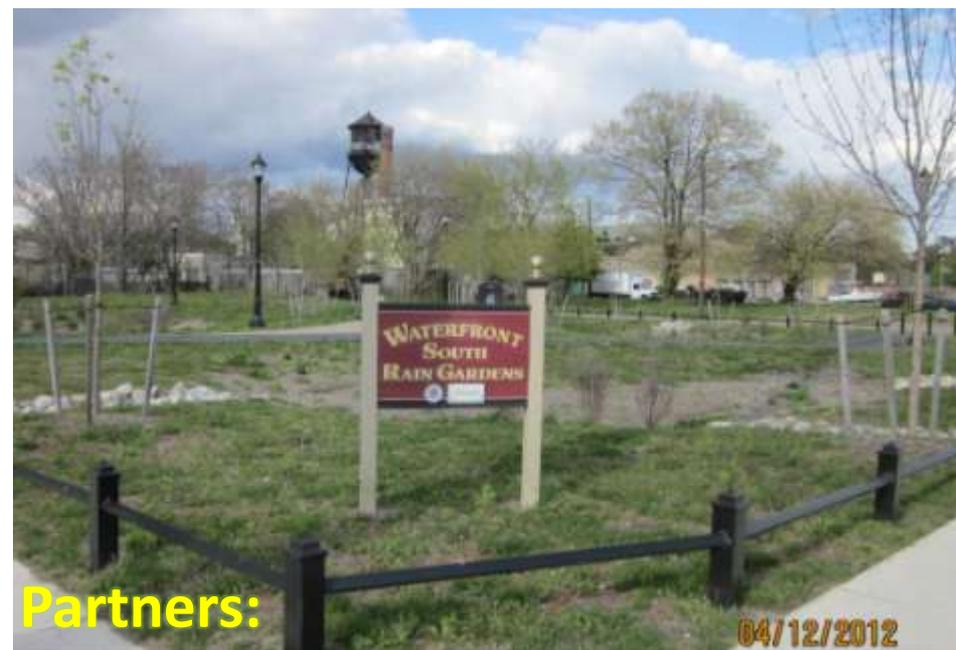
Waterfront South Rain Gardens Park

Remediation:

- Demolition of abandoned building
- 12 Underground Storage Tanks (USTs) removed
- 1,850 tons of soil excavated & disposed off-site
- Clean Fill placed to accept stormwater from streets

Benefits:

- Contaminated site reuse
- Mitigation of local street flooding
- Manages ~500,000 gallons of stormwater annually
- Reduces Combined Sewer volume to Delaware River



Funding Sources:

- DEP C&E Supplemental Env't Project (p/o\$655,000)
- DEP SRP Petroleum UST Fund Grant (\$122,000)
- EPA Brownfields Petroleum Ass't Grant (\$100,000)
- Rutgers 319h Watershed grant (p/o \$300,000)

Partners:

- Heart of Camden / Sacred Heart Church
- Center for Environmental Transformation
- Camden County Municipal Utilities Auth. (CCMUA)
- New Jersey Department of Env't Protection (NJDEP)
- Camden Redevelopment Agency
- Camden SMART (City of Camden, Cooper's Ferry Partnership, Rutgers University, NJ Tree Foundation, CCMUA, NJDEP)

Von Nieda Park & Baldwin's Run Stream Daylighting

GREY INFRASTRUCTURE

- Separate storm & sewer

GREEN INFRASTRUCTURE

- Retention/Infiltration Basins
- Expand/restore wetlands
- Bioswales
- Daylight Baldwin's Run

FUNDING

- EIT (\$2.2 million)
- DEP Green Acres (\$1.0 M)
- EPA Water (\$1.0 million)
- DEP SRP HDSRF (PA/SI)

RESULT

Flood Mitigation

Park Rehabilitation

Historic Fill Remediation

~23 million gallons separation

Improved water quality/CSO

Groundbreaking July 23, 2014





Salvation Army (Kroc) Community Center Harrison Avenue Landfill, Camden

*(proposed) Living Shoreline, Wetlands Creation
Habitat Restoration & Community Access*

(proposed) Park & Solar

Constructed Wetlands

Bioretention Basins

Kroc Center

***(GRAND OPENING
October 3, 2014)***

Funding:

SRP HDSRF \$22 million

SRP Publicly-Funded \$4.1 million

EPA Brownfields \$1.4 million

EPA 319H Living Shoreline \$323,000

Green Remediation Elements:

On-site waste management

Use of Local Dredge Material for Cap

Alternate (Permeable/Vegetative) Cap

Reuse of site materials (e.g. concrete)

Green Infrastructure Elements:

Permeable / Water infiltration Cap

~1.1-acre constructed wetlands

2000 feet bioretention basins

25 million gal/year stormwater management

no connection to adjacent CSO...

Planned restoration of riparian corridor