

South Wilmington Combined Sewer Separation & Urban Wetland Restoration Project

Presented by Bryan Lennon
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SOUTH WILMINGTON WETLANDS PROJECT

City of Wilmington, DE



BrightFields, Inc.
Environmental Services



Project Goals

Mitigate/reduce flooding

Improve water quality

Restore a functioning tidal wetland

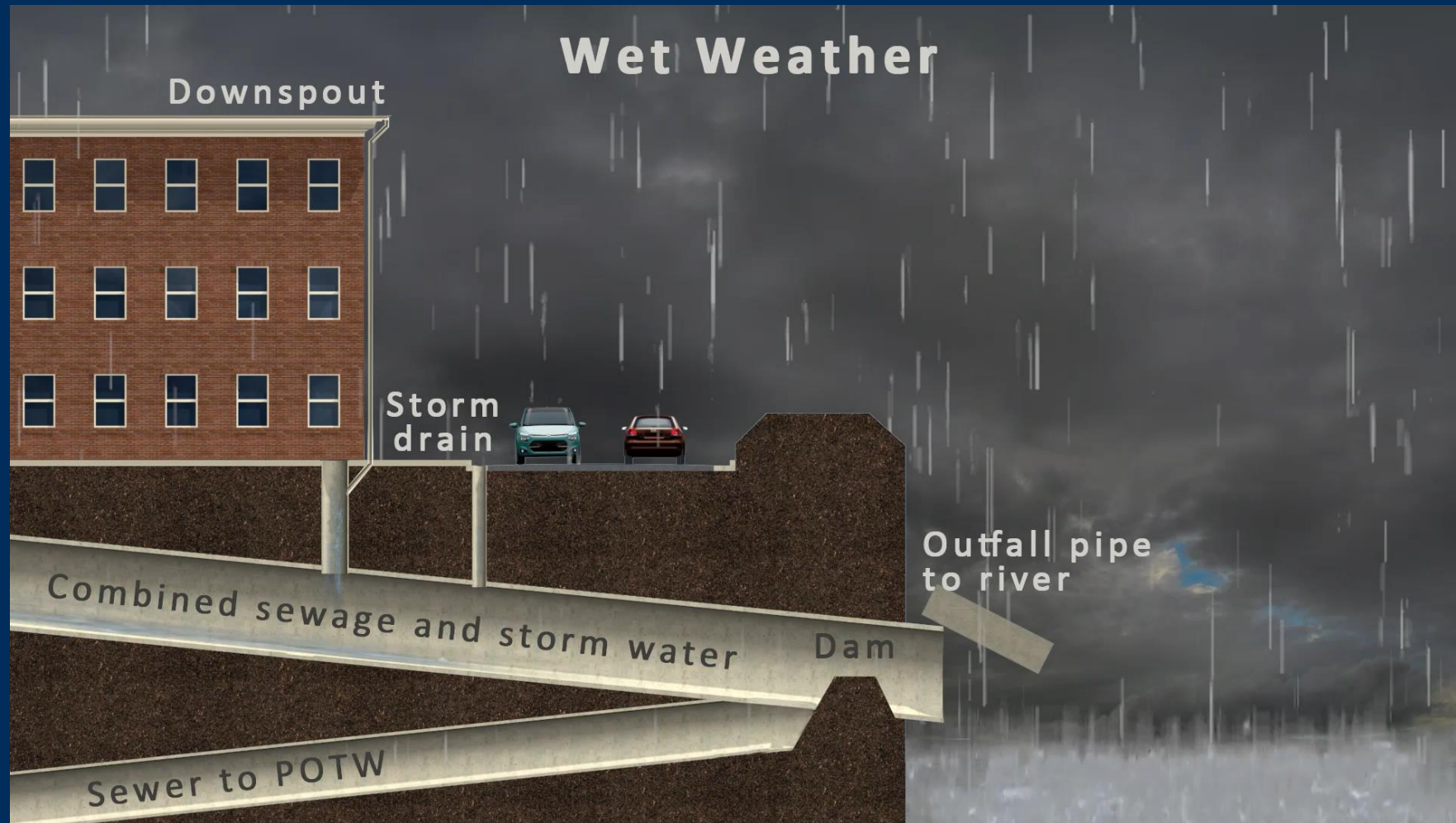
Clean up a brownfield

Create a safe and attractive wetlands park

Reduce mosquito breeding grounds



Conditions During a Storm



Wetland Park & Sewer Separation Areas



**34.60
acres**

**>1,000
Residences**



Modelling Results



Current Impacts of 10-yr 24-hr Storm

- 2.1 million gallons of sewage overflow
- 12.6 acres flooded in Southbridge

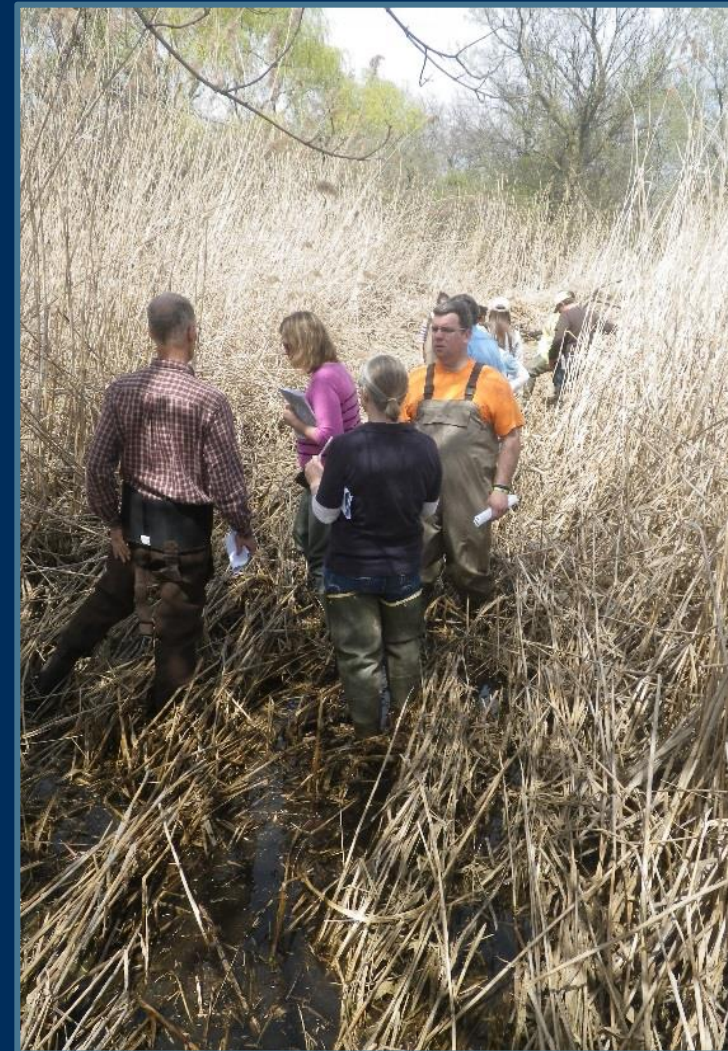
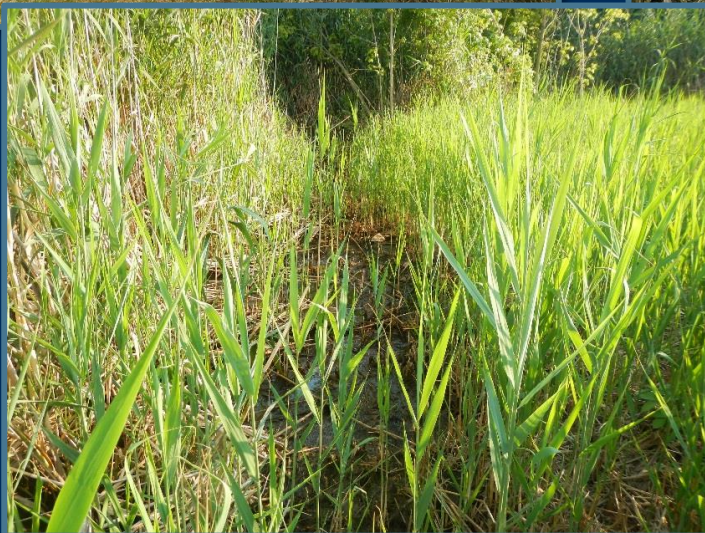
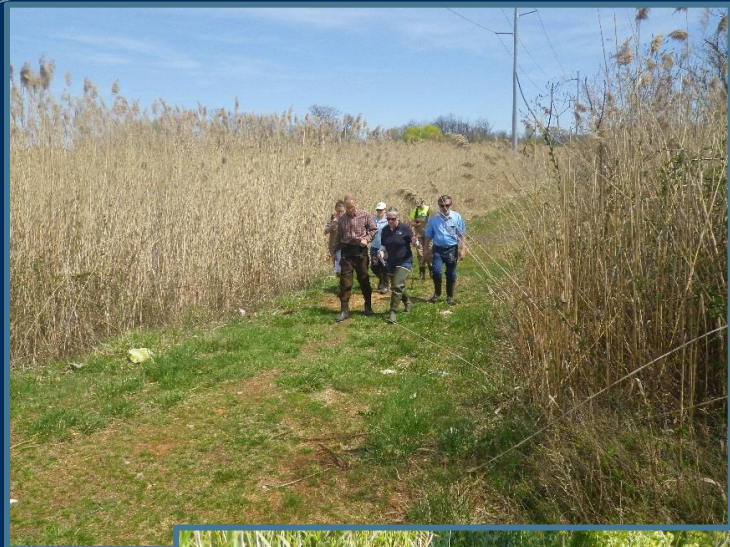
Modelling Results



Impacts after Project Completion

- Flooding reduced & concentrated in the Wetland Park
- 2.1 million gallon **decrease** of sewer back-up
- 12.1 acre **decrease** in Southbridge flooding





Wetland Park Components:

Walking Path & Passive Recreation



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Project Goals in Summary

Mitigate/reduce flooding

- 2.1 million gallon **decrease** of sewer back-up
- 12.1 acre **decrease** in Southbridge flooding

Improve water quality

- Treat 36.4 acres of stormwater run-off

Restore a functioning tidal wetland

- Restore a 15-acre tidal freshwater wetland

Clean up a brownfield

- Remove 100,000 cubic yards contaminated soils

Create a safe and attractive wetlands park

- Create walking paths, passive recreation, and planting of native species

Reduce mosquito breeding grounds

- Natural biological controlled of mosquito larvae



South Wilmington Wetlands Park

wilmingtonde.gov/government/city-departments/public-works/south-wilmington-wetlands-park

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SOUTH WILMINGTON WETLANDS PARK

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- South Wilmington Wetlands Park

How We Got Here

Project History

Flooding

Brownfield Remediation

Ecosystem and Wildlife

Transportation

Wetlands Park In The News

CONTACT

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Project Manager

Office Location/Contact Information

Drone footage of South Wilmington Wetland...

Watch laterShare

9/29/2020

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