

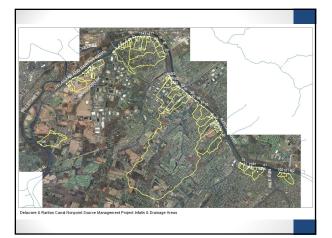
## Project History

- Studies indicated that sediment remain elevated between 10-Mile Lock & Landing Lane because of stormwater discharges
- Why is increased sediment a problem?
- Requires additional water treatment by water purveyors – additional chemical cost, additional sludge disposal
- SFY2002 319(h): Delaware and Raritan Canal Tributary Assessment and Nonpoint Source Pollution Management Project
- Focus: final 11 miles of Canal, Amwell Road to Landing Lane
- SFY2006/2007 and 2018 watershed restoration grant funding: Implementation

### D&R Canal Restoration Plan

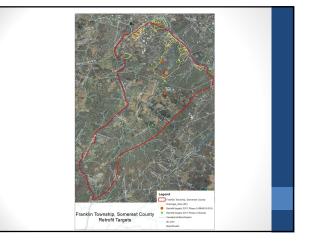


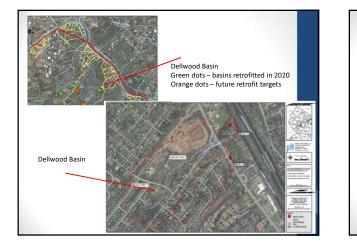
- Identified 72 infalls
- Only includes infalls that discharge to the Canal, many others go under Canal and discharge to Millstone River
- Delineated area draining to each infall, estimated sediment load, prioritized projects
- ✓ 15 infalls contribute 75% of sediment to Canal in project area
- ✓ Watershed restoration plan approved 2006



# Implementation So Far

- Landing Lane monitoring station
- Rain barrel workshops with Franklin Twp. and South Bound Brook Boro
- Schematic designs and conceptual recommendations for Infalls 5, 28, 60/62
  Installed 5 Filterra units and Suntree baffle box in South Bound
- Brook
- Completed basin retrofit at Rutgers Prep
- Completed basin retrofit in 2020 at Renoir Way, Laird Terrace, Municipal Complex and Gauguin Way
- Construction documents completed for Dellwood Lane Basin; construction beginning Spring 2021
- Developed schematic designs and conceptual recommendations for
   4 additional basins in Franklin Township



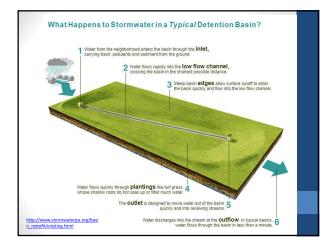


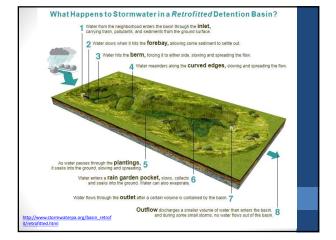
#### Problems with traditional stormwater basins

- Minimal water quality benefit – runoff flows through without
- treatment
- Sediment accumulation
- Clogged low-flow channels and outlet structures
- Standing water or wet soils
- Encourages nuisance species such as geese
- High maintenance costs

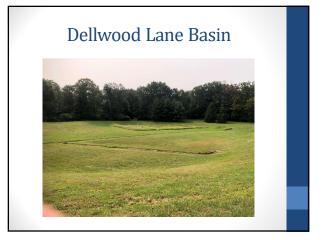
### Why retrofit stormwater basins?

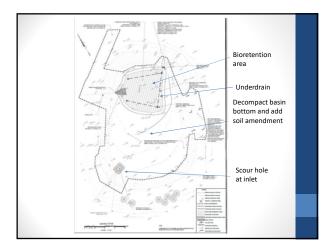
- Improve water quality Reduce maintenance
- Improve beneficial
- Improve beneficial wildlife habitat

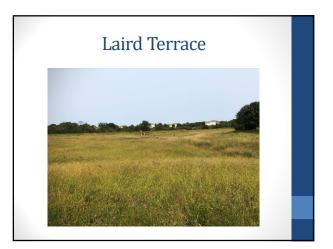
















## Maintenance

- Franklin Township responsibility
- Frequent inspections
- Mowing once per year
- Removal of sediment and trash as needed

### **River Friendly Programs** Partnerships to improve water quality

- •Golf Course
- Business
- •Farm
- Resident
- Schools



- Better management of existing land uses: Water Quality Management Water Conservation Techniques Wildlife and Habitat Enhancement Education & Outreach





