



MINUTES
MIDDLESEX COUNTY
WATER RESOURCES ASSOCIATION/WATERSHED MANAGEMENT GROUP MEETING
HELD AT THE
MIDDLESEX COUNTY BOARD OF CHOSEN FREEHOLDERS MEETING ROOM
November 5, 2018
1:30 P.M.

The meeting was called to order by Mr. Williams at 1:30 p.m. Notice of this meeting, pursuant to the Open Public Meetings Act, N.J.S.A. 10:4-10 and the NJ Water Quality Management Planning Rules, N.J.A.C. 7:15-9.3(b)7, have been complied with and are entered into the minutes of this meeting. A salute to the flag was observed prior to the start of today's meeting.

I. Roll Call

Attendance was as follows:

William Robins	Borough of Dunellen	Not present
Theodore Chase, Jr.	Township of Franklin	Not present
Freeholder Charles Kenny	Middlesex County Board of Chosen Freeholders	Not present
Alan Godber	Lawrence Brook Watershed Partnership, Inc.	Not present
Will Sigle		Not present
Sewell Peckham	Borough of Helmetta	Not present
David Hall	Township of Old Bridge	Not present
Dawn Mc Donald	Borough of Spotswood	Not present
Margaret Drozd		Not present
Michael Hill	Freehold Soil Conservation District	Not present
Tim Thomas		Present
Brandon Goldfine	Middlesex Water Company	Not present
Stephen Pospiech	City of Perth Amboy	Not present
Donald Newton	Borough of Sayreville	Not present
Dawn Corcoran-Gardella	Township of Piscataway	Not present
Jason Friedman	Middlesex County Planning Board	Not present
Siegfred Hubak	Township of Woodbridge	Not present
Alice Tempel	Borough of South Plainfield	Present
Brian Racin	Borough of South River	Not present
Bryan Bidlack	Township of South Brunswick	Not present
Leigh Jones	Township of East Brunswick Water and Sewage	Not present
Ron Yake	Township of Plainsboro	Present
Les Varga		Not present
John Katerba	Monroe Township Utility Dept.	Not present
Ryan Herkert		Not present
Doriann Kerber	Borough of Milltown	Not present

I. Roll Call (continued)

George Ververides	Middlesex County Office of Planning	Present
Louis Greenwell		Not present
Mirah Becker		Present
Laurie Sobel		Not present
Nicholas Tufaro		Not present
Lori Kahel		Present
Alex Zakrewsky		Not present
Sharon Martens	Middlesex Cty. Dept. of Public Health – Environmental Division	Not present
Gary Rojek		Not present
Richard Wallner	Middlesex County Office of Engineering	Not present
Edward Kuchie		Not present
Kyle Clonan	NJ Water Supply Authority	Present
Richard Fitamant	Middlesex County Utilities Authority	Not present
Kevin Aiello		Present
Daria Ludas	Borough of Jamesburg	Present
Glenn Sandor	Township of North Brunswick	Not present
Allan Williams	Highland Park Environmental Commission	Present
Rick Lear	Middlesex County Parks and Recreation Department	Not present
Michele Bakacs	Rutgers Cooperative Extension	Present
Sara Malone	Rutgers Sustainable Raritan Initiative	Not present
Suzan Colon	Old Bridge Twp. Environmental and Open Space Committee	Not present
Heather Fenyk	Lower Raritan Watershed Partnership	Not present
Bill Schultz	Raritan Riverkeeper	Present
Keith Jones	City of New Brunswick	Not present
Joseph Meyer	SUEZ Water	Not present

II. Approval of the Minutes of the September 17, 2018 Meeting

The minutes of the meeting of September 17, 2018 were distributed prior to today’s meeting. A motion was made by Mr. Clonan, seconded by Mr. Schultz and approved to adopt the minutes as presented.

III. Presentation – Rutgers Cooperative Extension Service and the Manalapan Brook Watershed Restoration Projects

Ms. Michele Bakacs made a presentation on the programs and services offered by the Rutgers Cooperative Extension Service. She highlighted the Rutgers Environmental Stewards Program which is currently accepting registrants. Information on the program is attached to the minutes of today’s meeting. Ms. Bakacs also spoke about RCE involvement with the Manalapan Brook Watershed Restoration projects (presentation attached). She explained RCE’s role in developing best management videos. Videos can be found <http://tinyurl.com/ManalapanWatershed>. Lastly, Ms. Bakacs reminded everyone about the availability of the impervious cover assessments for towns. Rutgers does have some funding for implementation of green infrastructure projects.

IV. Middlesex County Wastewater Management Plan (Mirah Becker)

Ms. Becker stated that staff submitted the final draft plan to NJDEP on November 1. It is hoped that NJDEP will give staff the green light to move towards adoption of the plan.

V. Manalapan Brook Watershed Protection and Restoration Plan (Freehold Soil Conservation District (FSCD)/Middlesex County)

Ms. Becker stated that she had recently received a copy of a letter from FSCD to NJDEP regarding the difficulty in receiving funding for the Manalapan Brook project. She recommended the WRA draft a letter to NJDEP voicing and supporting FSCD's concerns. Mr. Thomas added that FSCD was told that NJDEP was shifting staff and asked that they be patient. The project will most likely receive a no-cost time extension. Ms. Becker will reach out to Ms. Zimmerman regarding the WRA's letter of support.

VI. Lawrence Brook Watershed Partnership (LBWP)

No report.

VII. Lower Raritan Watershed Partnership (LRWP)

No report.

VIII. Sustainable Raritan River Initiative

No report.

IX. NJ Water Supply Activities/Projects (NJWSA)

- **Raritan Basin Watershed Plan/Raritan Basin Watershed Alliance**
- **D & R Canal Tributary (Franklin) Project**
- **Cedar Grove Brook (Franklin) Project**

Mr. Clonan gave an update on the Franklin projects. At the end of October, water quality monitoring began. Design work will begin shortly.

X. Middlesex County Flood Control Commissions

- **South Central Middlesex County Flood Control Commission**

No report.

- **Green Brook Flood Control Commission (Middlesex County)**

Mr. Ververides stated that work is continuing in Middlesex Borough. Funding continues to be an issue.

XI. Raritan Riverkeeper

Mr. Schultz spoke briefly about presentations on dam removals that have taken place and the return of shad migration into the Millstone River. Large striped bass are being caught in the western part of the Raritan Bay.

XII. Correspondence

There was no Correspondence presented at today's meeting.

XIII. Old Business

There was no Old Business presented at today's meeting.

XIV. New Business

There was no New Business presented at today's meeting.

XV. Public Comment

There was no Public Comment at today's meeting.

XVI. Next meeting, date, time and place

The next WRA meeting will be held on January 14, 2019 at 1:30 p.m. in the Freeholder Meeting Room, County Administration Building. The members will be hearing an application for a FWSA Amendment and Gary Rojek from the Office of County Health is scheduled to do a presentation

XVII. Adjournment

A motion was made, seconded, and approved to adjourn the meeting at 2:57 p.m.

lak

Manalapan Brook and Lake Watershed Plan Implementation Project

Michele Bakacs
County Environmental Agent
Rutgers Cooperative Extension
Middlesex and Union Counties
bakacs@njaes.rutgers.edu
732-398-5274

Rutgers Environmental Stewards Program

- Starts January 2019
- <http://envirostewards.rutgers.edu>



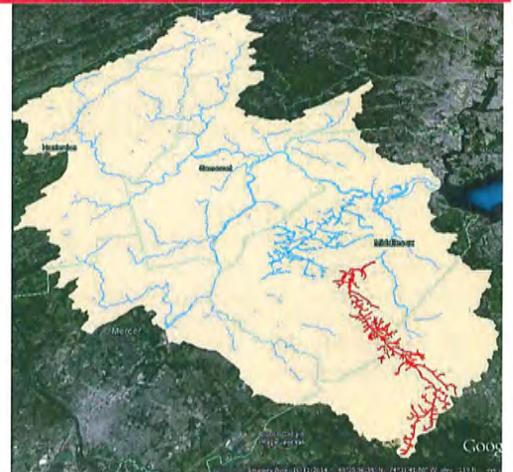
Restoring the Manalapan Watershed Video Series



<http://tinyurl.com/ManalapanWatershed>

Manalapan Watershed Location

- 43 mi² watershed
- 10 municipalities
- 2 counties
- Confluence with Matchaponix
- Flows into the South River
- Largest impoundment- Manalapan Lake



Problem and History

- Lake- highly turbid and can have high density of aquatic plants
 - Causes problems for lake recreation and ecology
- Brook- sediment erosion and deposition
- Modeling conducted by Princeton Hydro showed a 64% reduction in TSS loading was needed (4,527 tons of sediment) in order to meet surface water quality standards.
- SWQS for FW2-NT, TSS <40mg/L

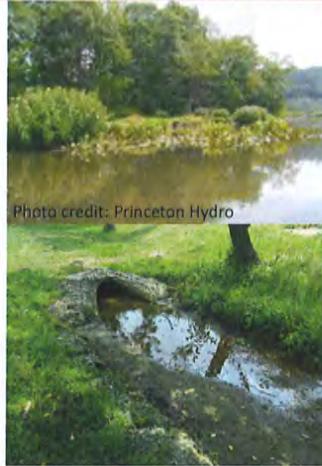


Photo credit: Princeton Hydro

Manalapan Brook and Lake



Implementation Partners

NJDEP 319 (h) Program

- Watershed Restoration Plan Approved-2011
- Goal- Target potential sites for implementation projects to achieve the targeted watershed-wide suspended sediment load reductions and desired water quality goals.
- Plan Implementation Phase- 2013
 - Freehold Soil Conservation District (grantee)
 - Princeton Hydro
 - Middlesex County Parks and Recreation; Planning; Mosquito Commission; Rutgers Cooperative Extension
 - Township of Monroe
 - Township of Manalapan



Implementation Projects

Basin retrofits and naturalization

Spring 2018

- 2 basin retrofits- Thompson Grove Rd., Michaels
- Remove concrete low flow channels
- Creating a forebay and stone filter berms
- Elongating and re-designing the stormwater flow path to enhance infiltration and pollutant uptake
- Planting of native vegetation





RUTGERS
 New Jersey Agricultural Experiment Station

Implementation Projects

Shoreline stabilization- summer, 2016

- 600 feet of shoreline
- Native plants
- Regrading
- Erosion control material





Implementation Projects

Floating Wetland Islands Spring, 2014

- Recycled plastic material
- Native plants
- High surface area
- Microbes assimilate nutrients
- Habitat value and aesthetically pleasing



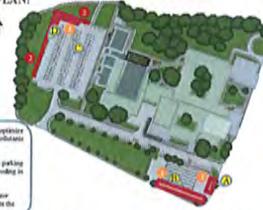
Photo credit: Princeton, NJ

Impervious Cover Assessments

PROJECT LOCATION:



SITE PLAN:



1. **POROUS PAVEMENT:** Porous pavement could be installed in several locations to optimize groundwater recharge, reduce flooding conditions, and reduce the amount of pollutants reaching catch basins.

2. **CURB CUTS:** Curb cuts could be installed along the southern edge of the western parking lot to reduce the flow of runoff to the southern corner. This measure would reduce flooding in the parking lot.

EDUCATIONAL OPPORTUNITY: The RCE Water Resources Program's Stormwater Management in Our Neighborhood can be delivered at Manalapan High School to educate the students about stormwater management.

1. **POROUS PAVEMENT**



2. **CURB CUTS**



EDUCATIONAL PROGRAM



Water.rutgers.edu

Rutgers Cooperative Extension
of Middlesex County offers

RUTGERS ENVIRONMENTAL STEWARDS PROGRAM

The EARTH Center in Davidson's Mill Pond Park
42 Riva Avenue, South Brunswick, NJ

Every Wednesday • 9:30am - 12:30pm
January 23 through June 12, 2019

Program Fee: \$250 • Register by: January 18
Register at [RESMiddlesex.eventbrite.com](https://resmiddlesex.eventbrite.com)

Anyone can become an Environmental Steward!

This program is designed to introduce non-scientists to the science behind important environmental issues affecting NJ. Stewards then give back to their own communities by helping to solve local environmental problems. If you have a passion for the environment, a desire to learn and a willingness to volunteer, then this program is for you!



For more details contact Michele Bakacs at
732-398-5274 • bakacs@njaes.rutgers.edu

MIDDLESEX
COUNTY • NJ

www.middlesexcountynj.gov



Classes are taught by experts from Rutgers University, and non-profit and government organizations. Fieldtrips to environmentally significant sites around the state are included as part of the program.

Learn about:

- Climate Change
- Energy Conservation
- Water Resource Protection
- Invasive Species
- Wildlife Management
- Habitat Conservation
- Protecting Pollinators
- Environmental Policy

To become a certified Rutgers Environmental Steward, graduates of the class portion of the program complete a unique 60-hour volunteer internship of their choosing.

Text **EXTENSION** to 56512 to stay connected with Rutgers Cooperative Extension events & updates!

RUTGERS

New Jersey Agricultural
Experiment Station



Rutgers Cooperative Extension is an equal opportunity program provider and employer. Contact your local Extension Office for information regarding special needs or accommodations. Contact the State Extension Director's Office if you have concerns related to discrimination, 848-932-3584.

Middlesex County Board of Chosen Freeholders

Ronald G. Rios, *Director*
Charles E. Tomaro, *Deputy Director*
Kenneth Armwood, *Chair,*
Business Development & Education Committee
Charles Kenny, *Leslie Koppel,*
Shanti Narra, *Blanquita B. Valenti*

MIDDLESEX
COUNTY • NJ

www.middlesexcountynj.gov

Search