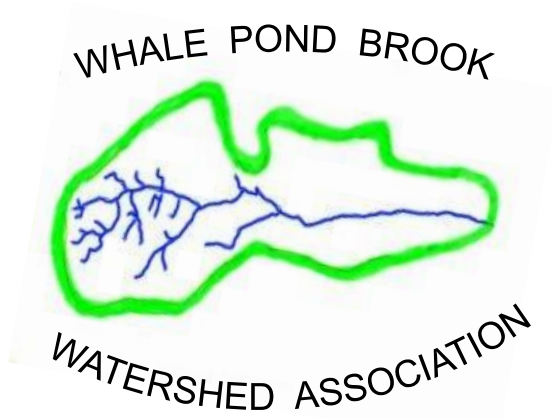


Flooding, Water Pollution And New DEP Green Infrastructure Rules

Impacts and Actions Affecting our Towns

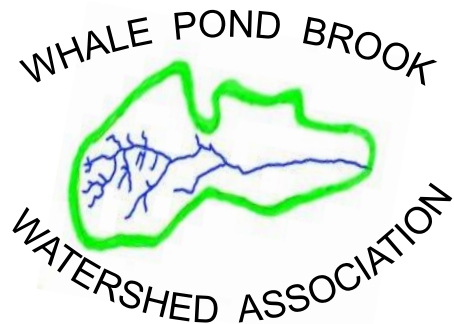


Whale Pond Brook Watershed Association
Neighbors working together to restore the watershed



Activities and Players and Homework

- The Watershed Institute - A leader in working with other Watershed Associations to protect our watersheds
 - Keeping water clean, safe and healthy
 - Work to protect and restore our water and natural environment in central New Jersey through conservation, advocacy, science and education.
- Step 1 – Sources to view – Recent Webinar - active organizations: Whale Pond Brook Watershed, Watershed Institute, Monmouth University Urban Coast Institute, Sierra Club, Long Branch Green Team, Clean Ocean Action



VISIT and VIEW: Webinar – Stormwater Pollution and Local Watersheds

<https://www.monmouth.edu/uci/2020/09/>

Or Watershed Institute/ANJEC Webinar

<https://youtu.be/dQge4PJTZfQ>

Why is Water an Issue in Towns and OUR Watershed?

Average Annual Precipitation Has Increased



Ave. Annual Precip. for 1 st 7 decades of 20 th Century:	44.16"
Ave. Annual Precipitation for 21 st Century:	47.62"
Ave. Annual Precipitation Increase:	3.45"

Source: Office of the NJ State Climatologist David Robinson <http://climate.rutgers.edu/stateclim/>



526.74 billion more gallons per year in NJ!

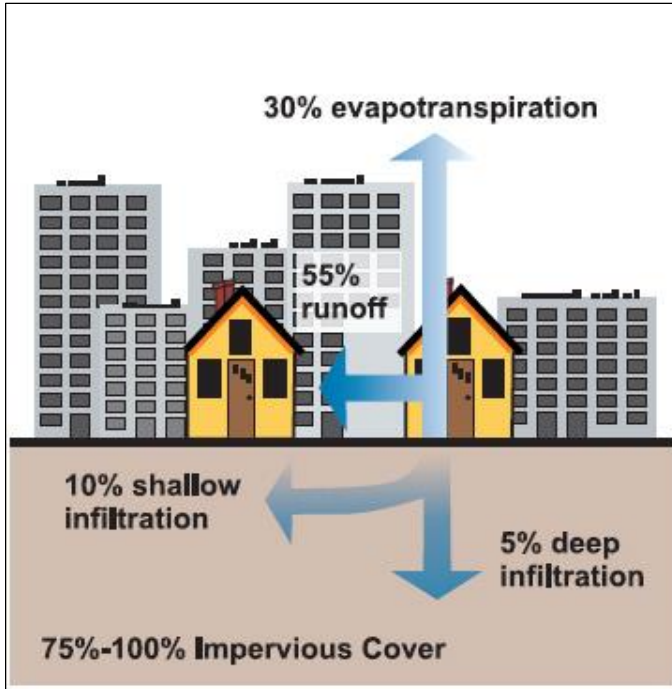
Development Pressure Continues

Increasing level of Impervious Surfaces (Eatontown Area – from 2012!)



Stormwater Runoff from Developments and Homes

Urban Watershed



2800 SF Roof + 1" Rain Storm = 1,680 gallons of water

How is Stormwater Managed by Towns?

- Local Ordinances
 - Towns vary in implementations – but usually start with state generated model template.
- Initiated with Town Engineer – lead, guide, outside contractors....???
- Planning Boards typically involved.....level depends???
- Roles of Green Teams and ECdepends???
- Final approvals by Governing Body

**NJ DEP Adoption of New Stormwater Regulations
W/Model Ordinance**

Must be incorporated by NJ Towns & Cities NLT March 2021

Why New Regulations and Ordinances?

- Stormwater is pushed elsewhere – typically into streams.
- Stormwater runoff picks up Pollution – flows into streams
- Urban Stormwater not able to reach groundwater – Limited recharge of our aquifers

New DEP Rules

- What they do...
 - Requires the use of green infrastructure
 - Encourages smaller systems that treat stormwater closer to its source
 - Applies to new “major” development (over 1 acre of soil disturbance or ¼ acre of impervious cover added)

SHORTFALLS MAY EXIST – RULES ARE NOT PERFECT....

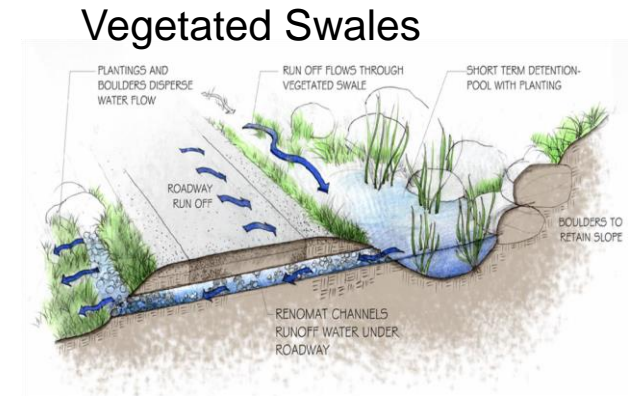
Treatment of quality of runoff from various impervious surfaces

How best to encourage residential development stormwater BMP (best management practices)

Address redevelopment / Address minor development

Opportunities to use existing natural native cover and trees

Green Stormwater Infrastructures



Rain Barrels & Cisterns

OBJECTIVES:

- > Retain water on site and infiltrate to groundwater
 - Reduce flooding
 - Reduce water pollution
 - Recharge our aquifers

What we can do?

- Consider comparison of State DEP Model Ordinance with Watershed Institute Model Ordinance
 - <https://thewatershed.org/wp-content/uploads/2020/07/TWI-Enhanced-Ordinance-highlights-final.pdf> (to download the document)
 - Consider how to address minor developments
 - Consider if need for firm implementation of ordinance (avoid loopholes)
- TOWN ORDINANCES MAY GO BEYOND MODEL ORDINANCES

Actions we can take

- Contact local elected officials.
 - This issue of stormwater and pollution matters to you
 - Expand citizen involvement for opportunity to have community input
 - Consider the Watershed Institute version of DEP Rules Ordinance
- Automated process in place to notify your Mayor/Council Members. Let them know we care around our **water quality** and the **flooding** in our town.
 - <https://act.sierraclub.org/actions/NewJersey?actionId=AR0283237>

A short term working group with EC's, Green Teams and Watershed to consider any strengthening of proposed Ordinance??