



2024 SUSTAINABILITY SUMMIT



DON'T LET POINTS SLIP DOWN THE DRAIN! DROP-IN COACHING SESSION

May 3, 2024

1:45-2:45 PM

CEU SIGN IN



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WIFI INFORMATION: 2 Open Networks

1. **sustainablenj**: Ballroom, GS3, Nonprofit Exhibit area
2. **Bell_Works_Conf_Center**: Bell Theatre & Conference

Drop-in Session Coaches



Anne Heasley



Mike Pisauro

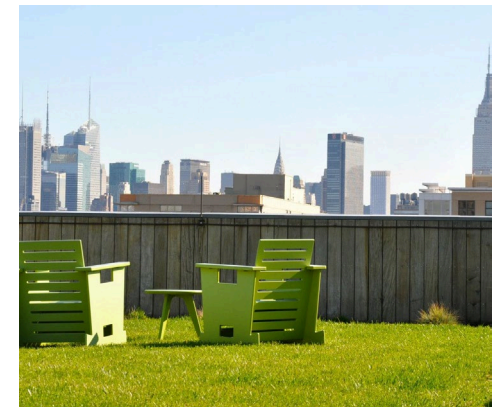


Lindsey Sigmund



Enhancements

- Low Impact Development
- Major Development
- Onsite Retention
- Maximum Contribution Area
- Regulated Impervious Surface
- Stormwater Runoff Quality
- Minor Development
- Redevelopment
- Runoff Quality - TMDL
- Maintenance





Low Impact Development

- Add definition and update requirements to emphasize the use of natural site features – landform, slope, and natural cover – when designing green infrastructure in order to reduce the disruption of the landscape from development and enhance the function of green infrastructure.

Low Impact Development

New Jersey Future



Include definition of “Low Impact Development”

- Manage stormwater close to its source
- Preserve hydrologic and ecologic functions of receiving waters
- Example: Preservation of natural landscape features

Include additional requirements for a Site Development Plan –
Environmental Site Analysis

Low Impact Development

Watershed Institute

- minimizing site disturbance
- preserving natural vegetation
- forests and especially core forests
- reducing and disconnecting impervious cover
- minimizing proposed ground slopes
- utilizing native vegetation
- minimizing turf grass lawns
- revegetating maintaining and enhancing natural drainage features and characteristics.





Major Development

- To manage more stormwater generated from development to reduce the threshold of disturbance by revising the definition of major development.
- Existing definition:
 - 1 acre of soil disturbance
 - ¼ new impervious cover
 - Water Quality treatment only for regulated motor vehicle surfaces

Major Development

New Jersey Future



- Include revised definition of “Major Development”
- Select one of the thresholds from the options provided
- Recommended threshold: Disturbance of ½ acre, 5,000 SF of added impervious surface, 5,000 SF of added motor vehicle surface

By selecting thresholds below the minimum 1 acre of disturbance required by NJDEP, stormwater management will become a requirement for a larger number of projects, advancing the pace of stormwater improvements.

Major Development

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Enhanced:

- ½ acre of soil disturbance
- 5,000 square feet of impervious coverage
- Water Quality treatment for all impervious surfaces

Existing:

- 1 acre of soil disturbance
- ¼ new impervious cover
- Water Quality treatment only for regulated motor vehicle surfaces



Onsite Retention

- To reduce the amount of runoff as well as clean and manage more stormwater, promote infiltration to allow stormwater more time to soak into the ground during storm events.

Onsite Retention

New Jersey Future

- Include Onsite Retention under Groundwater Recharge
- Revise Stormwater Runoff Quantity Standards to include Onsite Retention

Infiltration of stormwater from onsite impervious will achieve several stormwater management goals, including reduced flooding, improved water quality, and increased groundwater recharge



Onsite Retention

Watershed Institute

"Retention Storm" means retaining onsite through green infrastructure or reuse one-half of the projected 2 year storm as defined in Table 6.



The site shall be designed to manage through on-site retention the Retention Storm at the site or on contiguous properties in common ownership. The management shall be through the utilization of one or more green infrastructure techniques.

Section IV(T)



Maximum Contribution Area

- To manage stormwater closer to its source and use a more distributed system, reduce the maximum contributory drainage area.

Maximum Contribution Area

New Jersey Future

- Modify table in Section IV.O.2 to reduce the maximum contribution area

Reducing maximum contributory drainage areas will lead to more stormwater best management practices that are distributed on the site, a key component of low impact development.

Modified Table in Section IV.O.2.:

Best Management Practice	Maximum Contributory Drainage Area
Dry Well	[0.25 / 0.5 / 0.75] acre
Manufactured Treatment Device	[0.5 / 1.0 / 1.5] acre
Pervious Pavement Systems	Area of additional inflow cannot exceed [one / two] times the area occupied by the BMP
Small-scale Bioretention Systems	[0.5 / 1.0 / 1.5] acre
Small-scale infiltration basin	[0.5 / 1.0 / 1.5] acre
Small-scale sand filter	[0.5 / 1.0 / 1.5] acre





Regulated Impervious Surface

- Includes all impervious areas within the project area, instead of net increase of impervious cover. This provides for the water quality, quantity and recharge improvements inherent in the use of green infrastructure to apply to all impervious areas of a site – existing and new.

Regulated Impervious Surface

New Jersey Future

- Revise definition of Regulated Impervious surface to include new AND existing impervious surfaces



Regulated Impervious Surface

Watershed Institute

- All impervious surfaces require water quality treatment not just regulated motor vehicle traveled surfaces.
- Requires motor vehicle traveled surfaces to received treatment for hydrocarbons and other substances.
Sec. IV(S)(12)

Runoff from non-motor vehicle traveled surfaces should be routed to separate BMPs for water quality treatment.

Sec. IV(S)(11)





Stormwater Runoff Quality

- Provide for improvements to water quality by including regulated impervious and regulated motor vehicle surfaces – all impervious areas.

Stormwater Runoff Quality

New Jersey Future

- Ensure the threshold is consistent with the major development threshold





Minor Development

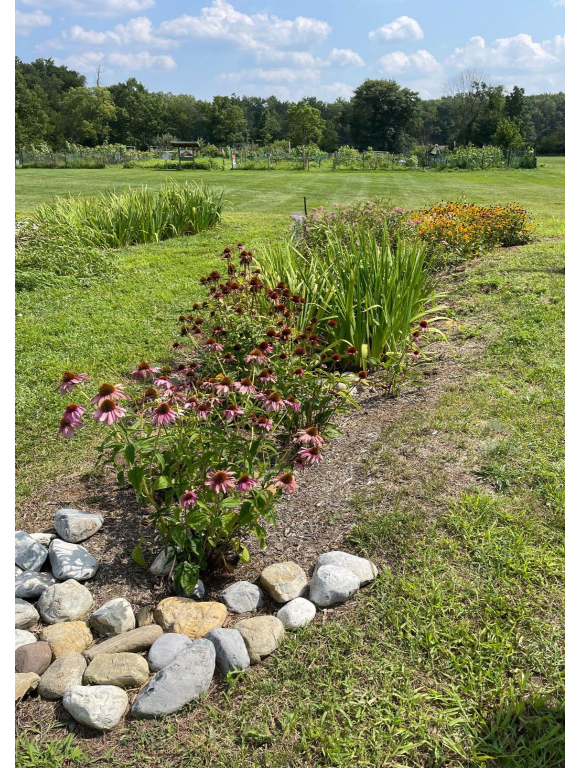
- To reduce the cumulative impact of stormwater generated from many small developments, add a definition for Minor Development to capture stormwater generated from disturbances of between 250-1000 square feet of new impervious surfaces.

Minor Development

New Jersey Future

- Include definition of Minor Development
- Include Design and Performance Standards for Minor Development
- Include Section for Minor Development requirements

This may capture very small projects that collectively contribute an increase of stormwater runoff to a vulnerable area.



Minor Development

Watershed Institute



- Define as 250 SF or more of impervious surface
- Treat 2 gallons of stormwater per square feet of impervious surface
- Retention Storm
- Include Redevelopment
- Require mitigation fee to secure waiver of requirements





Redevelopment

- To clarify how to calculate stormwater runoff from sites with existing development.

Redevelopment

New Jersey Future

- Revise the definition of “Regulated impervious surface” to include ALL impervious surface within the project area limit of disturbance

A more holistic enhancement that addresses all impervious, not just the net increase of impervious.



Redevelopment

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- For calculating compliance with Quantity requirements assume the site is not developed but wooded in good condition.
- Assume no pre-existing impervious cover





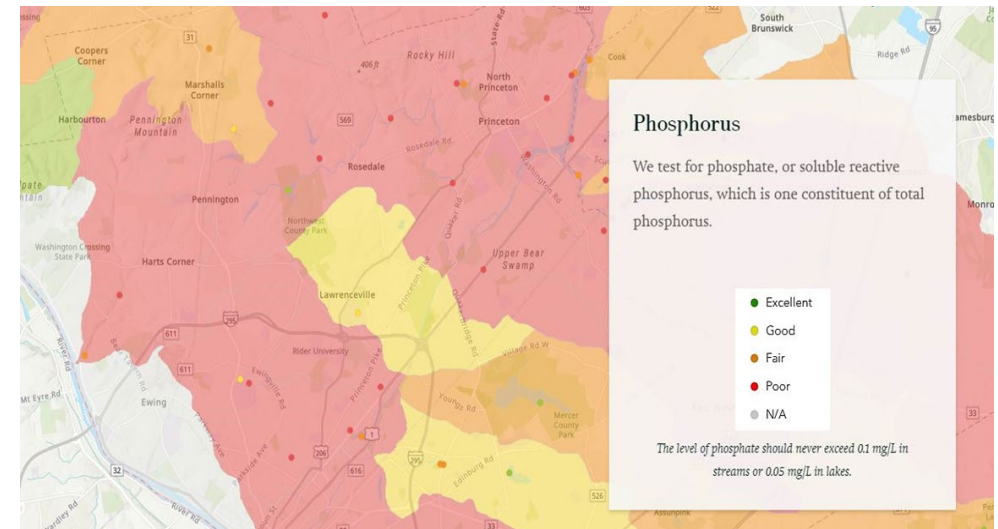
Runoff Quality - TMDL

- In order to ensure that runoff is not further degrading water quality, when stormwater will be directed to impaired waters – those with a Total Maximum Daily Load (TMDL) – the design includes a corresponding reduction of total suspended solids (TSS).

Runoff Quality - TMDL

The Watershed Institute

- Require consideration of the water quality status of receiving waterway
- Address impaired waters
- Implement stronger measures consistent with TMDL
- No increase in pollution discharges into FW1 waters





Design Submissions

Watershed Institute

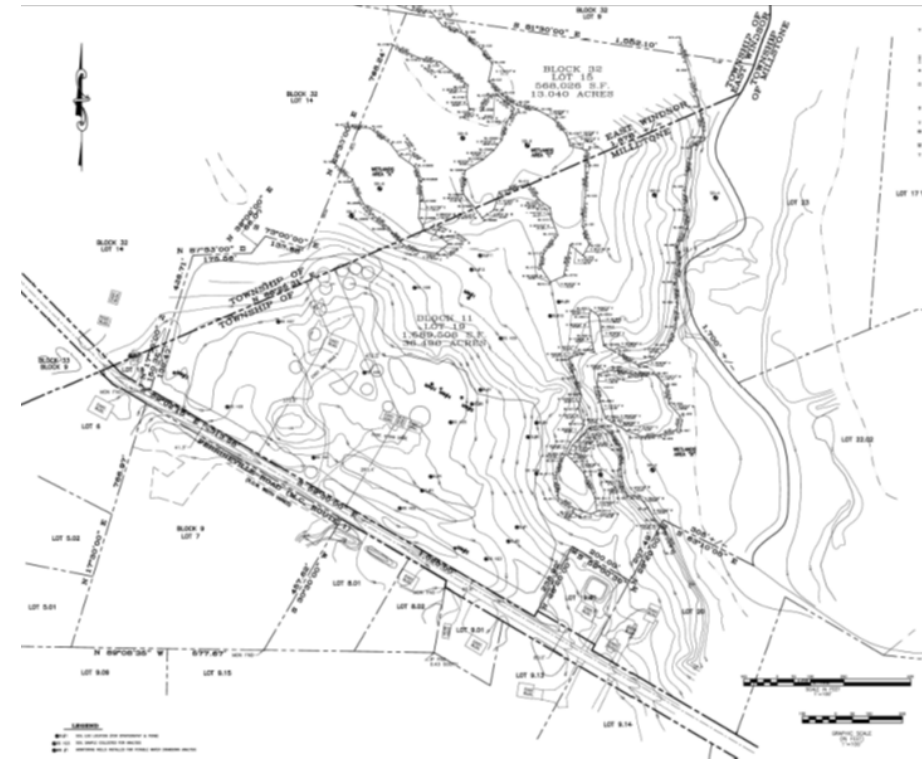
- The design shall avoid changing the surface and subsurface hydrology
- The design shall not cause, contribute to or exacerbate flooding upstream or downstream from the site.





Design Submissions

- map all streams, wetlands, vernal pools
- Subsurface and surface hydrology
- TMDLs
- Flood Plains
- Forests
- Map with soil test pits/bores overlaid with location of BMPs
- Map demonstrating the contributory drainage areas





Maintenance

Watershed Institute

- Requires permit/license from municipality
- Submission of annual reports on required maintenance.





MS4 Permit Resource



UNDERSTANDING THE NEW MS4 PERMIT

A PRIMER FOR NEW JERSEY MUNICIPALITIES

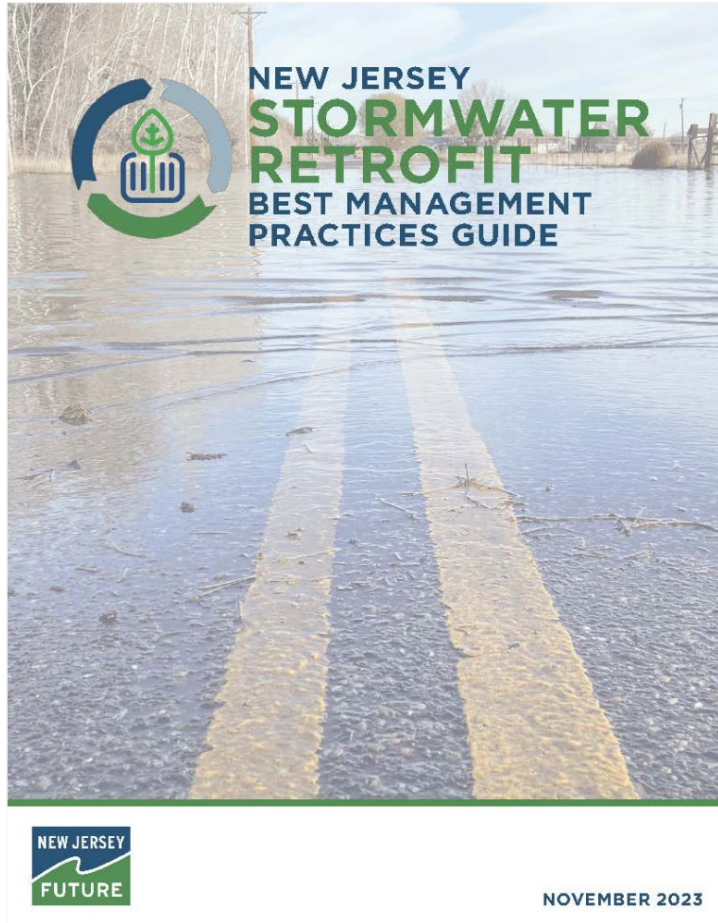


IN COLLABORATION WITH
ONE WATER
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Stormwater Retrofit Guide





Watershed Restoration

Watershed Restoration Academy



Dates: May 9 – 10 (Rain date for May 10 is May 13)

Place: The Watershed Center at 31 Titus Mill Road, Pennington NJ, 08534

Cost: \$598

Cost includes breakfast, lunch, field day bus, access to all materials, and continuing education credits for professionals.

Join this brand new, two-day, in-person course to learn all about streams! Spending one day in the classroom and one day in the field, participants will dive into the basics of watershed analysis and stream processes.

This class is designed to be an entry level course for water resources professionals (i.e., engineers, scientists, landscape architects, planners, restoration practitioners) and will include an introduction to site assessments for stream restoration projects. The course will be taught by a licensed professional engineer, fluvial geomorphologist, regulatory experts, and watershed scientists.

The field day will include a visit to a degraded stream and a healthy stream with visual and hands-on assessments. Data collected will be reviewed and analyzed at the close of the course. Attendees must commit to attending the full course to receive a course completion certificate.





Coaches contact information

- Michael Pisauro, Policy Director, The Watershed Institute,
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- Lindsey Sigmund, Program Manager, Mainstreaming
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- Anne Heasly, Program Manager for Policy and Planning,
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UPCOMING EVENTS AND OPPORTUNITIES

❑ EARNING YOUR DIGITAL SCHOOLS STAR: TIPS FOR SUCCESS WEBINAR

This webinar offers an overview of the Digital Schools program, insights and examples of ways to improve digital school action submissions and earn points to attain Digital Schools Star recognition. The informational webinar will be held on **Wednesday, May 8, 2024, 3:30pm-4:30pm.**

Register: bit.ly/4dhdj91

❑ 2024 MUNICIPAL CERTIFICATION CYCLE

The next deadline to apply for certification is **Friday, May 10, 2024.** The final application deadline is **Wednesday, July 31, 2024.** View the full cycle timeline on the 2024 Certification Cycle page.

Learn More: bit.ly/SJ2024CertCycle

❑ NJBPU'S COMMUNITY ENERGY PLANNING GRANTS

The New Jersey Board of Public Utilities is offering a new round of Community Energy Plan Grants for all New Jersey municipalities.

Application Deadline: **Friday, May 24, 2024**

Learn More: bit.ly/3WcmAt7

❑ TRI-COUNTY SUSTAINABILITY GENERAL MEETINGS

This Sustainable Jersey Regional Hub will host virtual meetings on a variety of sustainability topics throughout the year. The next meeting is **Tuesday, May 28, 2024, 7:00pm-8:00pm.**

Learn More: bit.ly/Tri-CountySustainability

❑ 2024 SUSTAINABLE COMMUNITIES GRANT PROGRAM

Atlantic City Electric is contributing \$35,000 to support municipal environmental stewardship and resiliency projects within its service territory. Join us for an informational webinar on **Monday, May 13 from 1:00pm-2:00pm** to learn more about the program and how to use the online application portal.

Application Deadline: Thursday, June 27, 2024

Learn More: bit.ly/SustainableCommunitiesGrantProgram

❑ 2024 SCHOOL CERTIFICATION CYCLE

The final deadline to apply for certification and Digital Schools Star Recognition is **Thursday, June 13, 2024.** View the full cycle timeline on the 2024 Certification Cycle page.

Learn More: bit.ly/SJS2024CertCycle

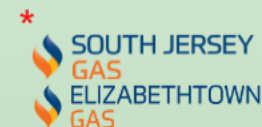
❑ HOW TO ADOPT OR UPDATE A COMPLETE AND GREEN STREETS POLICY WEBINAR

Save the date! Join a one-hour walkthrough on how to create your own model municipal Complete and Green Streets Policy, brought to you by the Voorhees Transportation Center at Rutgers University, Sustainable Jersey, the New Jersey Department of Transportation, and the North Jersey Transportation Planning Authority, on **Tuesday, September 17, 2024, 12:00pm-1:00pm.** Registration information coming soon. Follow-up Open House Q&A for attendees to be held virtually on **Wednesday, October 30, 2024 from 3:00pm-5:00pm.**

PROGRAM UNDERWRITERS



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Thank You

Session slides will be available on sustainablejersey.com by 5/10.

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