


# Municipal Stormwater Regulation Program Overview

## Changes to Tier A Permit Requirements

### North Plainfield Borough



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### Stormwater Permitting History



- ❖ Phase I Rules –1990; regulated stormwater discharges from certain industrial facilities and medium-large MS4s.
- ❖ February 2, 2004 – NJDEP published NJPDES amendments in response to EPA's Phase II Rules
- ❖ March 2004 – NJ established the Municipal Stormwater Regulation Program
- ❖ February 2009 – Modifications to the Tier A Municipal Stormwater Permit



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### Today's focus has changed...



- ❖ From: Point Source Pollution
- ❖ To: Nonpoint Source Pollution
- ❖ Why:
  - USEPA estimates that at least 60% of our current surface water quality problems are a result of Nonpoint Source Pollution



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**Increased Development = Increased Run-off**

The diagram illustrates the impact of land development on water runoff. On the left, a forested area shows 10% of water infiltrating the ground and 50% running off. On the right, a city with buildings and paved surfaces shows 55% of water infiltrating and only 15% running off. A red arrow points from the forested area towards the city, indicating the direction of the comparison.

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**Development Impacts Quantity And Quality of Runoff**

The diagram shows a red arrow pointing from a forested area on the left to a city on the right. The arrow is labeled "Increased Quantity Decreased Quality". To the right of the city, a list of pollutants is provided.

- Nutrients
- Pathogens
- Sediment
- Toxic Contaminants
- Debris
- Thermal Stress

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**Stormwater Programs for Municipal Operations**

- ❖ Municipal Stormwater Regulation Program (MSRP)
  - All 566 municipalities, 21 Counties, public colleges and other public entities
  - Tier A, Tier B, Highway Agency and Public Complex Stormwater General Permits
- ❖ Industrial Stormwater Permitting Program
  - Eleven categories of industrial activities (municipal wastewater treatment plants, landfills, bus transportation facilities, etc.)

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### Statewide Basic Requirements

1. Post Construction Stormwater Management in New Development and Redevelopment
2. Local Public Education
3. Improper Disposal of Waste
4. Solids and Floatable Control
5. Maintenance Yard Operations
6. Employee Training

All SBRs have been addressed in North Plainfield's SPPP



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### Stormwater Permit Renewal

- ❖ Revisions effective March 1, 2009
- ❖ Annual Reports are due May 2, 2009 annually
  - Electronic Submittal
- ❖ Updates to SPPP were required to be completed by June 1, 2009.



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### New Development & Redevelopment

“Major Development”

- ❖ Projects that disturb 1 acre or more, including projects less than 1 acre that are part of a larger common plan of development
- or
- ❖ Projects that disturb less than one acre of land, but increase impervious surface by one-quarter (1/4) acre or more



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**Design and Performance Standards**  
N.J.A.C. 7:8-5

- ❖ **Nonstructural Stormwater Management Strategies, 5.3**
  - Mandatory nonstructural categories of stormwater management that must be used to the maximum extent practicable:
- ❖ **Groundwater Recharge, 5.4(a)2**
  - Maintain 100% of the average annual pre-construction groundwater recharge volume; **or**
  - Infiltrate the increase of stormwater volume from pre- to post-construction for the 2 Year Storm
- ❖ **Stormwater Quantity, 5.4(a)3**
  - Maintain stormwater peak flows




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**Design and Performance Standards**  
N.J.A.C. 7:8-5

- ❖ **Stormwater Quality, 5.5**
  - Reduce the post-construction TSS by 80%.
  - Reduce, to the maximum extent feasible, the post-construction nutrient load anticipated from the developed site.
  - Preserve and maintain 300-foot "special resource protection areas" along waters designated at "Category One" and along perennial or intermittent streams that drain into or upstream (same HUC14) of the Category One waters.
- ❖ **Stormwater Maintenance Plan, 5.8**
  - Long term maintenance of BMPs – Preventative and corrective maintenance shall be performed to maintain the function of the stormwater management measure




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**Local Public Education**

- ❖ **New Points System**
  - Must complete activities totaling 10 points annually
  - NJDEP approved activities listed in Attachment E of Permit
  - Completing previous requirements (brochure distribution and annual events) = 5 Points
  - Additional Points:
    - Information and stormwater coloring books are given away at events and at municipal buildings (2 points)
    - Elected official training at Council meeting (3 points)
    - Potential - Letter from the Mayor to be distributed to all residents and business highlighting the requirements and environmental benefits of the Pet Waste, Litter, Improper Disposal of Waste, Wildlife Feeding, Yard Waste, Illicit Connection, Refuse Container and Private Storm Drain Inlet Retrofitting Ordinances (5 points)




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 **Local Public Education**

❖ Storm Drain Inlet Labeling

- Labeling was completed by Boy Scout Troop 24 with round plastic markers that included the message:
  - "Only Rain – Down the Storm Drain"
- Ensure labels are still visible during annual catch basin cleaning and inspection program.
  - Replace if necessary



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 **Outfall & Illicit Connection Inspections**

- ❖ Mapping completed by PMK Group in 2006
- ❖ Initial inspections of outfalls completed by PMK Group in 2006
- ❖ Illicit Connection investigations completed by PMK Group in 2008
- ❖ Ongoing program includes:
  - Contacting local authorities at (908) 769-2937, or the NJDEP hotline at 1-877-WARNDEP
  - Reinspection of outfalls during every 5-year permit cycle.



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 **Outfall & Illicit Connection Inspections**

- ❖ Initial audits included inspections for scouring.
- ❖ Areas identified to have scouring are required to be inspected once a year to ensure the associated stabilization projects were successful.



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 **Existing Stormwater Ordinances**

- ❖ Pet Waste
  - Must distribute information on the Pet Waste Ordinance and benefits of proper disposal with pet licenses
- ❖ Litter
- ❖ Improper Waste Disposal
- ❖ Wildlife Feeding
- ❖ Yard Waste
  - Both collection schedule and containerized yard waste ordinance adopted.
  - **7-day time restriction was removed from permit**
- ❖ Illicit Connections



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 **New Stormwater Ordinances**

- ❖ Refuse Container/Dumpster Ordinance
  - Must be adopted by Sept. 1, 2010
  - Requires dumpsters and other refuse containers that are outdoors/exposed to stormwater to be covered at all times
  - Excludes permitted temporary demolition containers, containers at facilities with a NJPDES permit, litter receptacles, individual homeowner trash and containers that hold large bulky items (e.g., furniture, bound carpet and padding) only.



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 **New Stormwater Ordinances**

- ❖ Private Storm Drain Inlet Retrofitting Ordinance
  - Must be adopted by Sept. 1, 2010
  - Requires retrofitting of existing storm drain inlets to meet the standard in Attachment C of permit during alterations, repaving, repairing and resurfacing on properties not owned/operated by municipality
  - Excludes pothole repairs and individual single family homes.



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**Solids and Floatable Control**

- ❖ Monthly street sweeping of applicable streets and record waste totals & distance swept
  - North Plainfield has designated ALL streets to be swept
- ❖ Annual inspection and cleaning of all stormwater facilities including all catch basins and record waste totals
- ❖ Retrofit storm drain inlets as required
- ❖ Road Erosion Control Program was removed from permit and consequently removed from SPPP





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**Maintenance Yard Operations**

- ❖ Employee Training and Monthly Inspections
  - Vehicle/Equipment Fueling SOP
  - Vehicle Maintenance SOP
  - Good Housekeeping SOP
  - Source Material Management (to eliminate/reduce discharges)
  - De-icing Material Storage
  - Vehicle Washing Practices
  - Discharges of Water from Secondary Containment
  - Spill Response Procedures




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**More information**

- ❖ PMK Group created a training video\* endorsed by the NJDEP that can be accessed through the NJ Municipal Excess Liability Joint Insurance Fund website: [www.njmel.org/stormwater.html](http://www.njmel.org/stormwater.html)



\*Note: Does not include 2009 modifications to the Permit




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# QUESTIONS ?

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