Briarcliff Manor Stormwater Management 2022

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Pollution Concerns

- Excessive Nitrogen and Phosphorus
    - Found in sanitary wastes
    - Fertilizers
- Construction/Road Runoff
- Industrial wastewater

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Nitrogen and Phosphorus

- Nitrogen and Phosphorus – essential nutrients for plant growth

- Both occur naturally and are important to the ecosystem

- Excessive nutrients lead to:

  - Eutrophication

  - Algae blooms

  - Reduced oxygen

Construction Runoff

- Leads to large amounts of sedimentation

- Can carry petroleum products from construction vehicles

- Concrete truck washout

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Industrial Waste Water

- Multitude of chemicals produced by industry

- Regular testing of discharges

- May have water retention areas

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Stormwater Management

- State and national SPDES Programs

- Stormwater Pollution Prevention Plans (SWPPP)
  - Construction
  - Industry

- Sewer and Sanitary Regulations

- Phosphorus ban in detergents and fertilizers

State Pollution Elimination Discharge System

- Program Goals
  - Eliminate pollution from state waters
  - Maintain highest possible water quality
  - Protection of public health
  - Public enjoyment of resources
  - Protect fish and wildlife
  - Manage industrial development

SWPPP

- SWPPP components
  - Site map and description
  - Activities that could cause pollution
  - Management Practices and Control Measures
  - Inspections and Monitoring

- Briarcliff Manor has a SWPPP
  - Community Outreach
  - Inspections
  - Annual report

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Stormwater Management

What to do at home

- ⬛ Fertilize lawns only as needed

- ⬛ Handle and store fertilizers and other household chemicals properly

- ⬛ Direct roof downspouts towards vegetative areas

- ⬛ Direct downspouts into rain barrels

- ⬛ Consider porous options for paved areas

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What to do at home Continued

- Plant a rain garden

- Plant native species

- Reduce use of pesticides and herbicides

- Wash cars at a carwash

Questions?