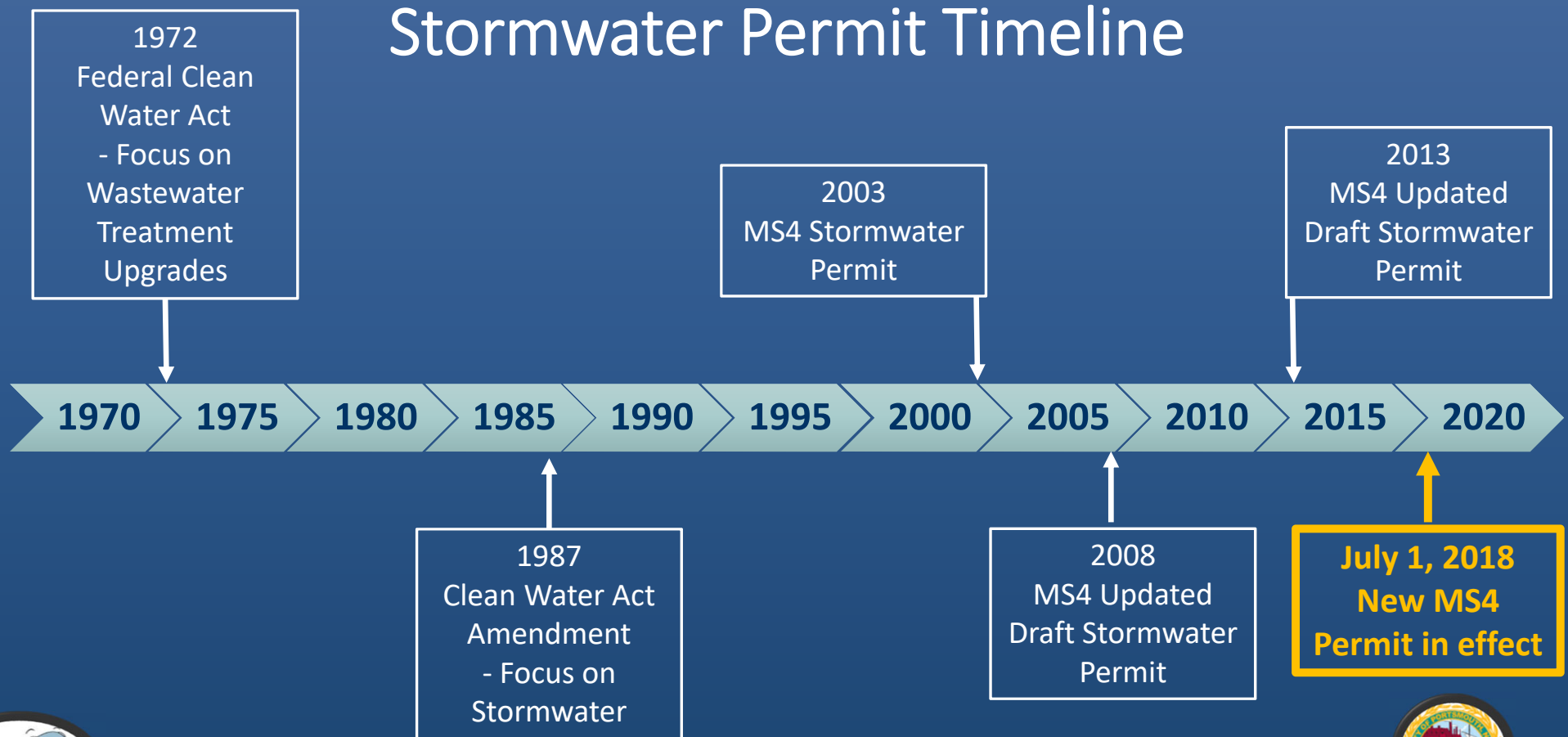


# Stormwater Permit Requirements



# Municipal Separate Stormwater Sewer System (MS4) Permit Stormwater Permit Timeline

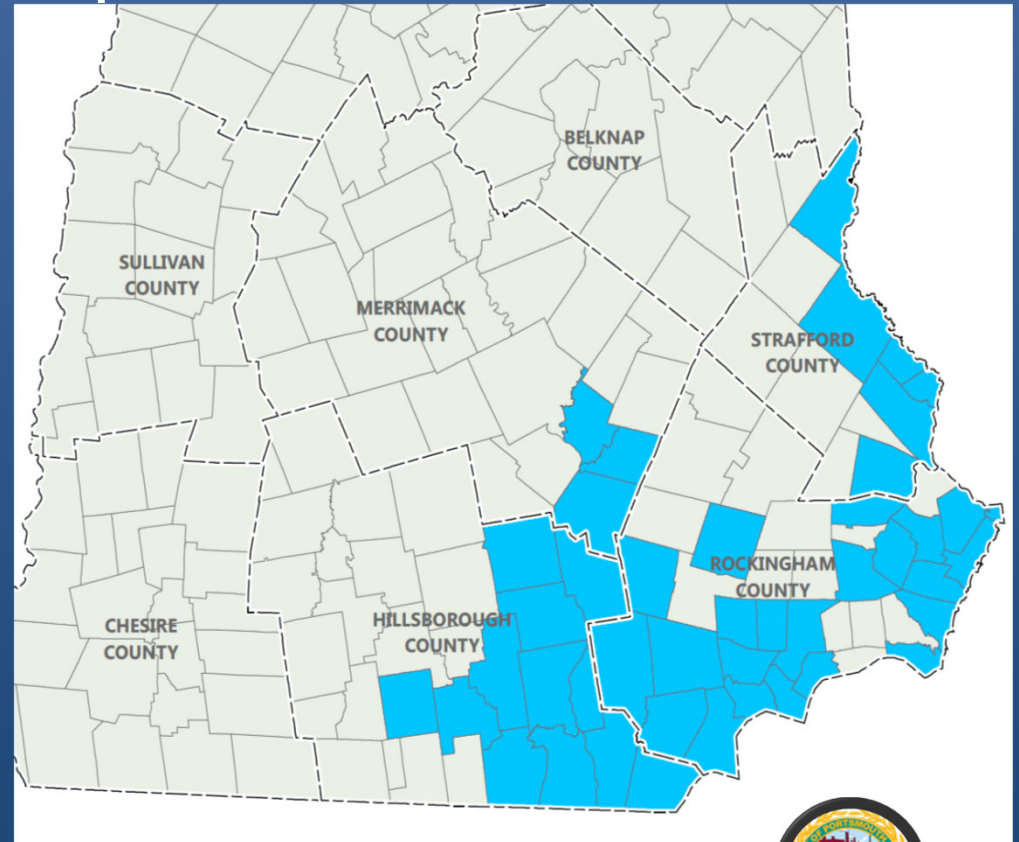


City of Portsmouth's Stormwater System – Permit Requirements



# MS4 Regulated Communities in New Hampshire

- **60** Total Communities
  - **44** Subject to Permit
  - **16** with Waivers
- Three Non-Traditional
  - NHDOT
  - UNH
  - Pease International Tradeport



City of Portsmouth's Stormwater System – Permit Requirements



# Water Quality-Based Requirements

- Most Recent Approved 303(d) list of Impaired Waters (2016)
  - Nitrogen, phosphorus, chloride, bacteria, metals
- Impaired Waters with Total Maximum Daily Loads (TMDLs);
  - Appendix F – with a TMDL
  - Appendix H – Impaired but no TMDL





# Permit Basics

## Six Minimum Control Measures

1. **Public Education / Outreach**
2. **Public Participation/Involvement**
3. **Illicit Discharge Detection Elimination**
4. **Construction Erosion Control Regulations**
5. **Post-Construction Stormwater Regulations**
6. **Good Housekeeping - City Operations and Facilities**



# Public Education and Outreach

- Two messages/yr to four audiences
  - Residential
  - Commercial/Business
  - Developers
  - Industries
- Add'l Messages for Impaired Waters
  - Nitrogen = fertilizer use, yard waste, etc.
  - Bacteria = Septic Systems
  - Chloride = promote Green SnowPro Certification



City of Portsmouth's Stormwater System – Permit Requirements



# Public Involvement

- Annual opportunity to allow public to provide input of stormwater management plan implementation
- All reports made publicly available
  - City website
  - Available at DPW



# Illicit Discharge Detection Elimination (IDDE)

- Written IDDE Plan by July 2019 - Complete
- Priority Ranking of Outfalls - Ongoing
- Phased dry weather sampling - Ongoing
- Catchment investigations of system connections
- Map entire storm system over 10 years
- Adequate legal authority to prohibit and investigate illicit connections (i.e., ordinance, by-law, etc.)





# Construction Site Runoff Control

- Written procedures for site plan review for new sites > 1 acre
- Written procedures for inspection and enforcement measures
- Regulatory controls for other wastes such as demolition debris, litter, and sanitary wastes





# Post-Construction Site Runoff Control

- First 2 years
  - New or Redevelopment: Enhanced stormwater treatment for projects  $\geq$  1 acre of disturbance
- Within 4 years
  - Update street and parking lot design to promote Low Impact Development and limit impervious cover
  - Inventory all City owned land for future retrofits
- Within 5 years
  - Identify five sites for potential retrofit



# Good Housekeeping

- **Within 2 years: Develop Plan** for municipal activities, street sweeping, CB cleaning, BMP inspections, etc.
- **Inventory of publicly owned facilities**, including parks and open space, building and facilities, vehicles, and equipment
- **Stormwater pollution prevention plan (SWPPP)** for public works / transfer station facility



# Nutrient Impaired Waters

- **Nitrogen Impaired Waters**
  - **4 years: Nutrient Source Identification Plan**
    - Sources, load estimates, remedial measures
    - Targeted educational messages (pet waste and fertilizer management)
    - Enhanced street sweeping
  - **5 years: Identify Potential Stormwater Retrofit Sites**



Photo: DKWR Consulting

City of Portsmouth's Stormwater System – Permit Requirements



# Chloride Impaired Waters

## Chloride Impaired (Appendix H)

- **Salt Reduction Plan by Year 3.**
- **Fully implement by Year 5.**
  - Tracking and reporting municipal use
  - Upgrade equipment to increase efficiency
  - Training for municipal staff
- Update regulations for new and redevelopment to minimize salt usage.
- Identify private parking lots with 10 or more parking spaces and encourage use Green SnowPro Operators

