Stormwater runoff washes away anything that it can move from yards & streets
Stormwater runoff is #1 polluter of waterways.

- Direct discharge of pollutants to waters during every rain event
- Existing regulations do not meet current EPA requirements for illicit discharges and connections – bacteria impairment

Connections and discharges to Town roads and drainage system are a big problem.

- Adds to pollution of local waterways – bacteria impairment
- Maintenance burden for the Town to keep infrastructure clean
- Creates hazardous (icy/flood) conditions on roadways
Norwell– Impaired Waters

Bacteria/Pathogens
North River
Second Herring Brook
Third Herring Brook
Longwater Brook
South Coastal Watershed (SCW)

First Herring Brook, Accord Pond & others are tributary to drinking water supplies.
Why do we need this Bylaw?

- Existing water quality is impaired and existing discharges to Town roadways are a hazard, so we need to do more than simply keeping it from getting worse.
- Pollution prevention is easier and more economical than treatment – compliance with EPA Clean Water Act is not optional.
Control runoff from existing development and new construction of single-family properties through basic controls.

Recharge groundwater to prevent runoff and recharge groundwater aquifers for water supply.

Distribute the effort among those contributing to the stormwater system, otherwise it all falls on Town resources.
Norwell Stormwater Management Bylaw

Article I – General Provisions

Article II – Prohibit Illicit Discharges to MS4

Article III – Land Disturbance Review

  Applicability; Exemptions

  Administrative Review

  Land Disturbance Permit
Any land disturbance activity 500-25,000 SF & tributary to street or town drainage system; or
Any increase or change to impervious surface 500-5,000 SF
Administrative Review

- **Submission**
  - Application, plan, fee

- **Basic Controls**
  - Grade driveways not to drain to street
  - Recharge new roof runoff
  - Erosion controls

- **Review by SW Authority (Town Staff)**
  - Approx. one week review time
  - Obtain condensed approval with conditions
Land Disturbance Permit Thresholds

- ≥ 25,000 SF cumulative disturbance; or
- Increase or change in impervious surface that results in >5,000 SF of impervious on the lot; or
- Any Land Use of Higher Potential Pollutant Loads (LUHPPL); or
- New or redevelopment of retail, commercial, or industrial
Land Disturbance Permit

• Submission
  – Application, narrative, plan, fee, SW plan, EC plan, O&M plan & supporting calculations

• Controls
  – LID & BMPs to manage runoff and WQ
  – Meet stormwater management standards

• Review by SW Authority (Conservation)
  – Public hearing process
  – Approx. one month review time
  – Obtain approval with conditions
### Examples 1: Average Single Family Home

- **40’x50’ House** = 2,000± SF
- **16’x100’ Driveway** = 1,500± SF
- **50’x30’ Front Yard** = 6,000± SF
- **60’x100’ Rear** = 4,000± SF
- **40’x25’ Side Yards (2)** = 2,000± SF
- **Total Disturbed Area** = 15,500± SF

<25,000 SF Disturbance & <5,000 SF Impervious = Administrative Review
Examples 2: Miscellaneous

- Clear cutting on a lot where surface slope/direction of flow is toward Town roadway
  
  500 - 25,000 SF = Administrative Review

- New single-family home, house addition, new garage
  
  500 - 5,000 SF = Administrative Review

- Reconstruct driveway
  
  500 - 5,000 SF = Administrative Review
Example 3: Excluded

- Add second story over existing garage
  No change in impervious = No review Required

- New patio or walkway of any material
  <500 SF Disturbance = No review Required

- New 16’x24’ 1-car garage = 384± SF
  <500 SF Disturbance = No review Required
Example 4: Exemptions

- Maintenance of existing structures, impervious areas, landscaping, or lawn associated with single family homes
- Conversion of lawns to vegetated landscape
- Construction of utilities other than drainage that does not alter terrain or drainage patterns
- Normal maintenance and improvement of land in agriculture
- Disturbance or development requiring permits/approvals from other boards (OOC, site plan review, etc.) that demonstrate compliance with Town Stormwater Management Regulations
Thank you!