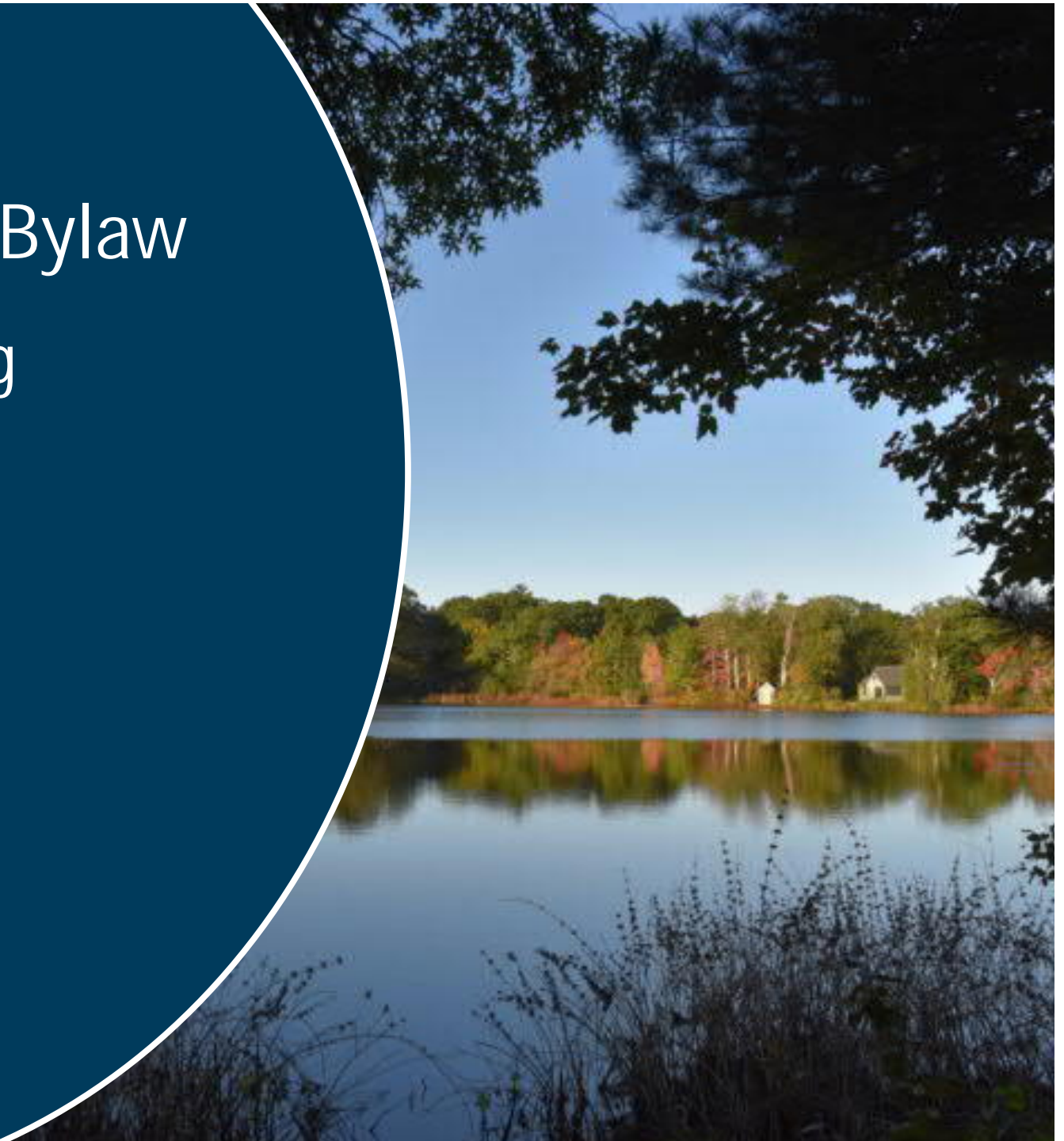


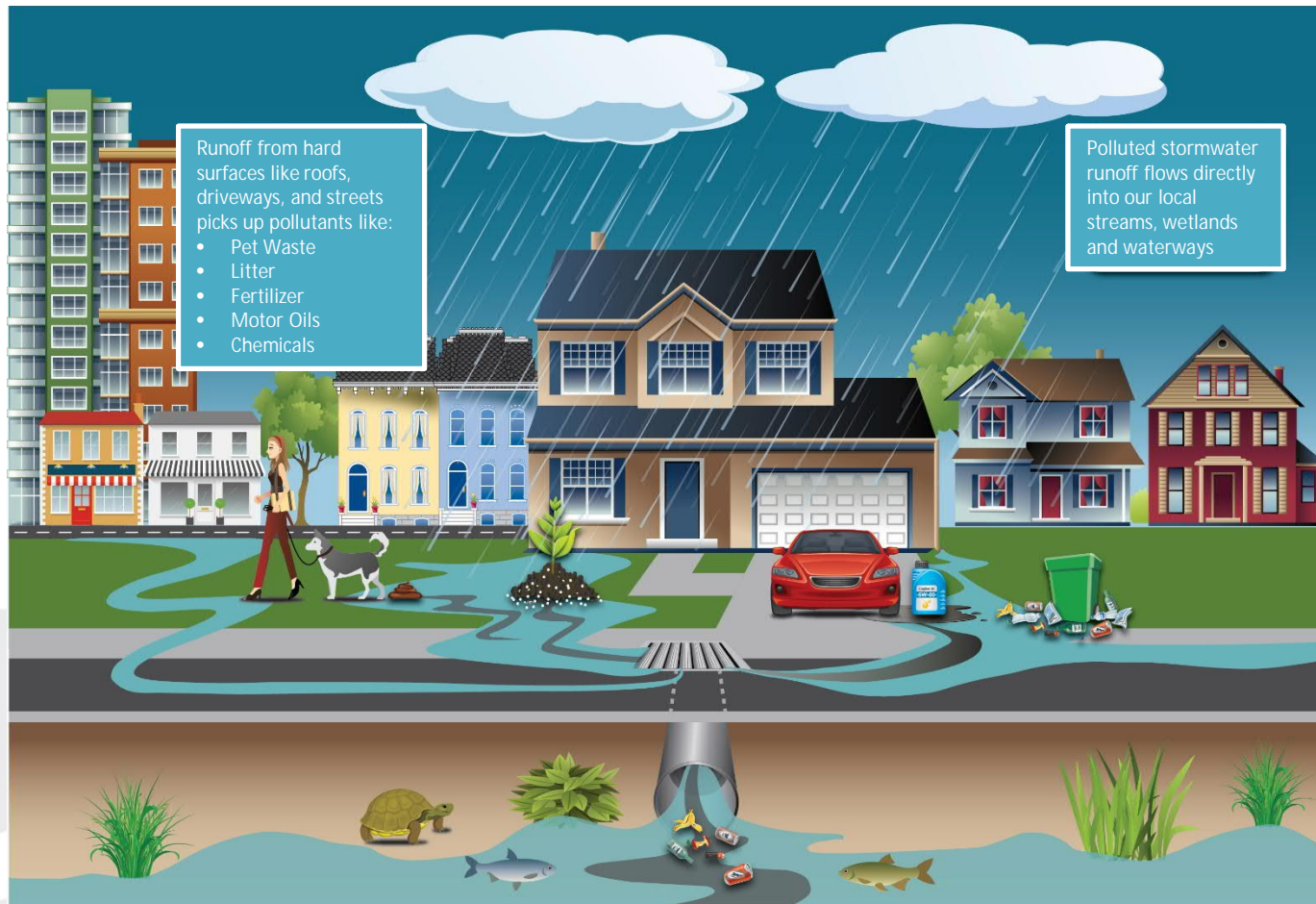
# Stormwater Bylaw

## Public Meeting Presentation

January 22, 2020



# The Problem



Stormwater runoff washes away anything that it can move from yards & streets

**BETA**

# Understand the Reality

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.

# What will the Bylaw do?

- 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

# Administrative Review Thresholds

- 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

- $\geq 25,000$  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!

