



EAST LONGMEADOW STORMWATER PROGRAM UPDATE

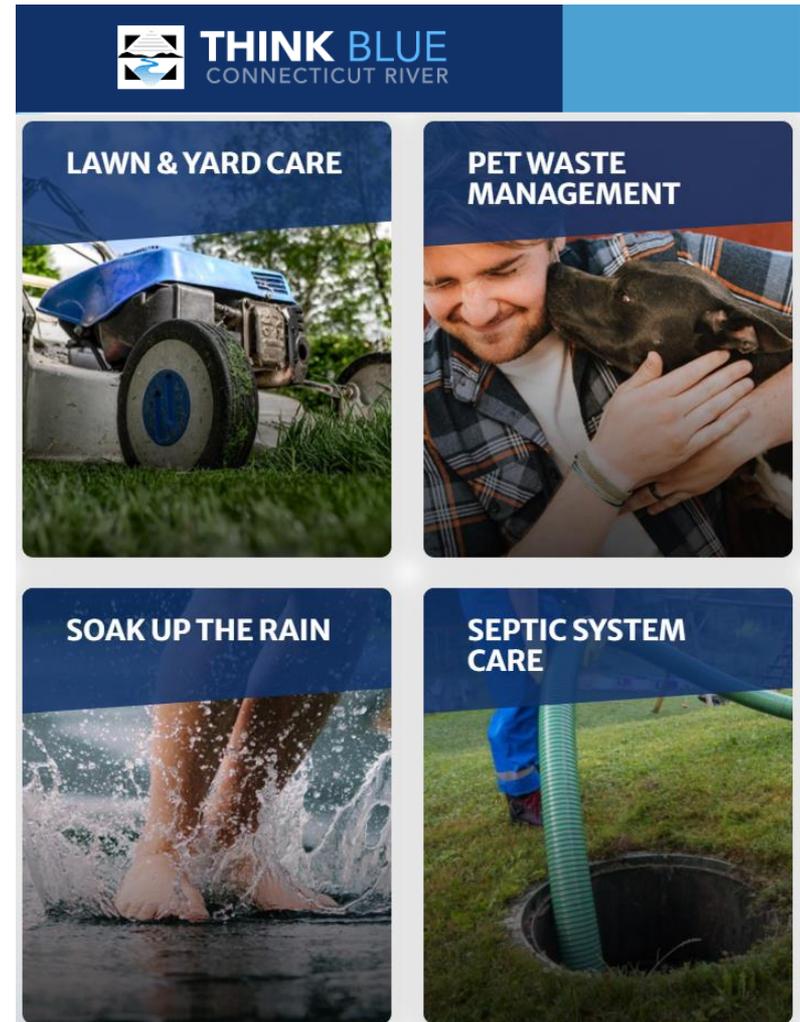
**Conservation Commission Meeting
August 9, 2023**

Kelly Doherty & Haley Rivers, Tighe & Bond



PURPOSE OF THIS MEETING

- **Provide an update on East Longmeadow's ongoing stormwater management program**
 - Permit Year 5 accomplishments
 - Planned activities for Permit Year 6
 - Future Permit Year requirements
- **Solicit feedback on stormwater program**



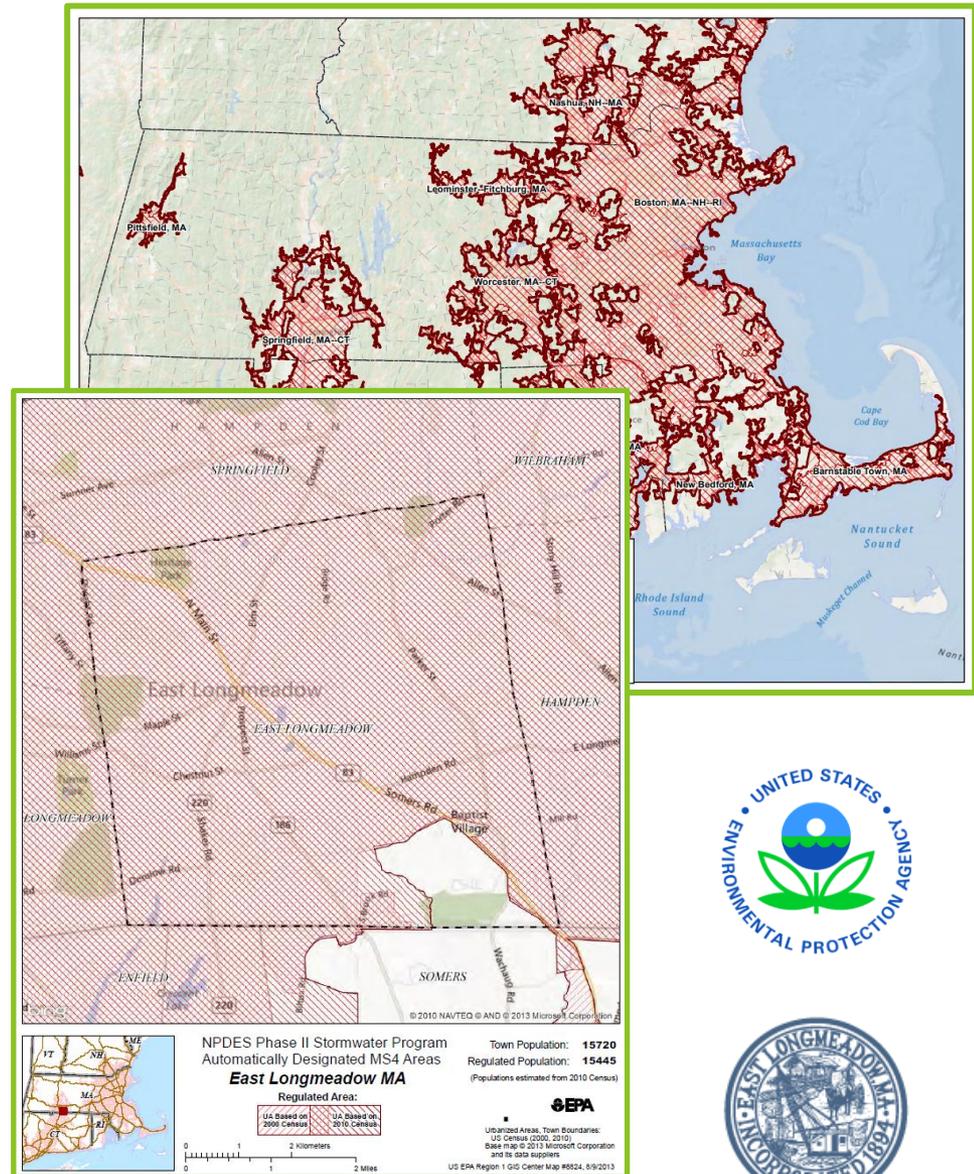
WHAT IS STORMWATER?

- Rainwater that falls on paved surfaces and lawns becomes stormwater
- If it doesn't soak into the ground, stormwater heads for the nearest storm drain
- Storm drains feed to outfalls that dump stormwater into waterways
- When stormwater picks up trash or chemicals, that's stormwater pollution
- Stormwater pollution is the fastest growing type of water pollution in Massachusetts



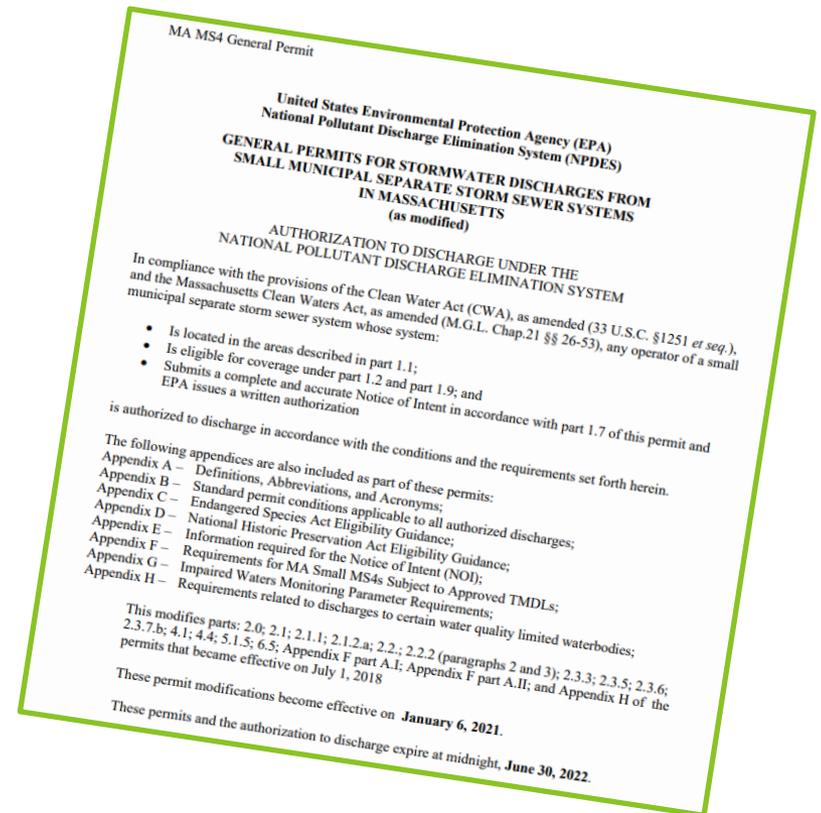
EPA'S SMALL MS4 STORMWATER PROGRAM

- **MS4 = Municipal Separate Storm Sewer System**
- **Jointly administered by EPA and MassDEP**
- **East Longmeadow's MS4 area includes all drainage within the "urbanized area"**



EPA'S SMALL MS4 STORMWATER PROGRAM

- **Notice of Intent (NOI) under the 2016 Small MS4 General Permit submitted September 28, 2018**
- **Authorization to discharge stormwater received April 5, 2019, expires June 30, 2022**
- **Administratively continued on May 16, 2022 until new permit issued**
- **Stormwater Management Plan (SWMP) finalized July 1, 2019, updated annually**



EAST LONGMEADOW'S STORMWATER PROGRAM (SWMP)

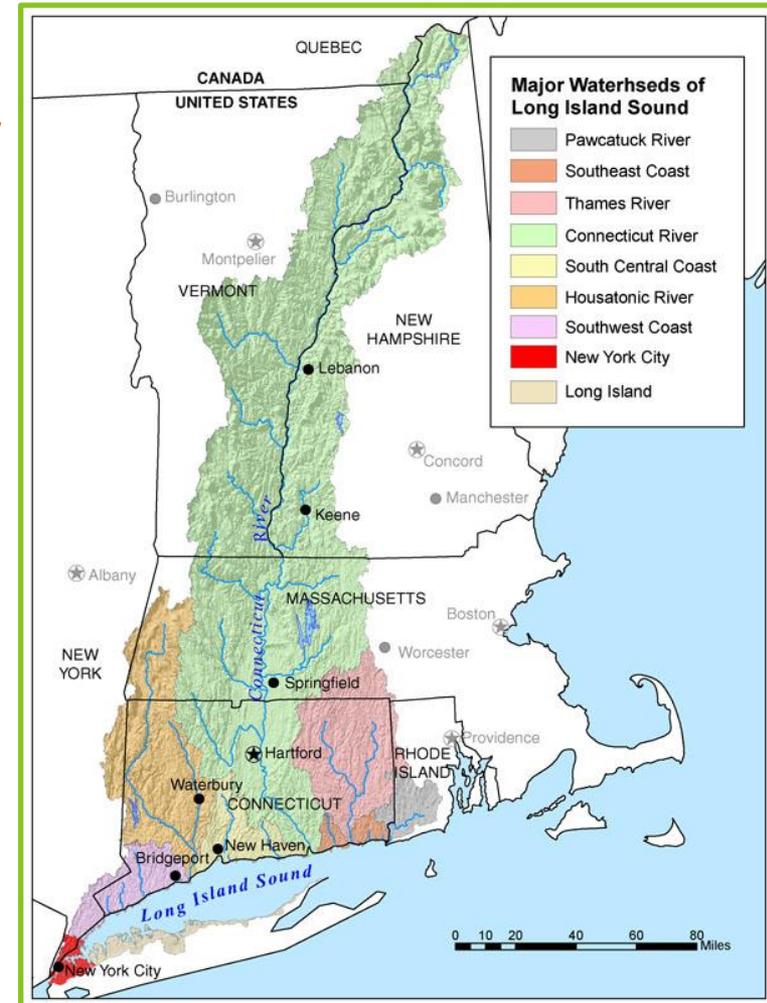
- **Minimum Control Measures (MCMs):**

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination (IDDE) Program
4. Construction Site Stormwater Runoff Control
5. Stormwater Management in New Development and Redevelopment
6. Good Housekeeping and Pollution Prevention



EAST LONGMEADOW'S SWMP

- **Long Island Sound Total Maximum Daily Load (TMDL) for Nitrogen supplemental BMPs**
 - Annual timed messages on nutrient pollution related topics
 - Stormwater management BMPs optimized for nitrogen removal
 - Good Housekeeping SOPs for Town properties
 - Street sweeping twice per year
 - Nitrogen Source Identification Report



EAST LONGMEADOW'S SWMP: PY 5 IN REVIEW

- **MCM 1: Public Education and Outreach**

- Annual messages to residents, businesses, institutions, and commercial facilities
- Led by PVPC CT River Stormwater Committee, Town does additional messaging

- **MCM 2: Public Involvement and Participation**

- SWMP available online
- Rain barrel discount program



EAST LONGMEADOW'S SWMP: PY 5 IN REVIEW

- **MCMs 4 & 5: Construction Site and Post-Construction Stormwater Management**

- Stormwater bylaw revised April 2022 to meet additional requirements of 2016 Small MS4 General Permit
 - Post-construction stormwater management design standards for new development and redevelopment that are more stringent than those in the MassDEP Stormwater Standards and Handbook
 - Submission of as-built drawings no later than two (2) years after completion of construction
 - In accordance with bylaw, reviewed 2 projects, performed 2 site inspections, and issued 2 enforcement actions

New Development

MS4 Requirement (greater than one acre)
<ul style="list-style-type: none">▪ Remove 80% Total Suspended Solids▪ Remove 50% Total Phosphorus▪ Off-site mitigation allowed within HUC 12

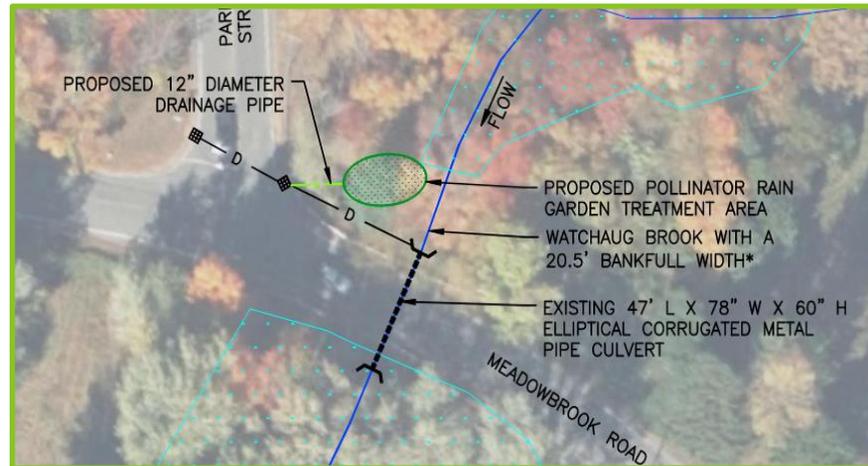
Redevelopment

MS4 Requirement
<ul style="list-style-type: none">▪ Remove 90% TSS▪ Remove 60% Total Phosphorus▪ Off-site mitigation allowed within HUC 12



EAST LONGMEADOW'S SWMP: PY 5 IN REVIEW

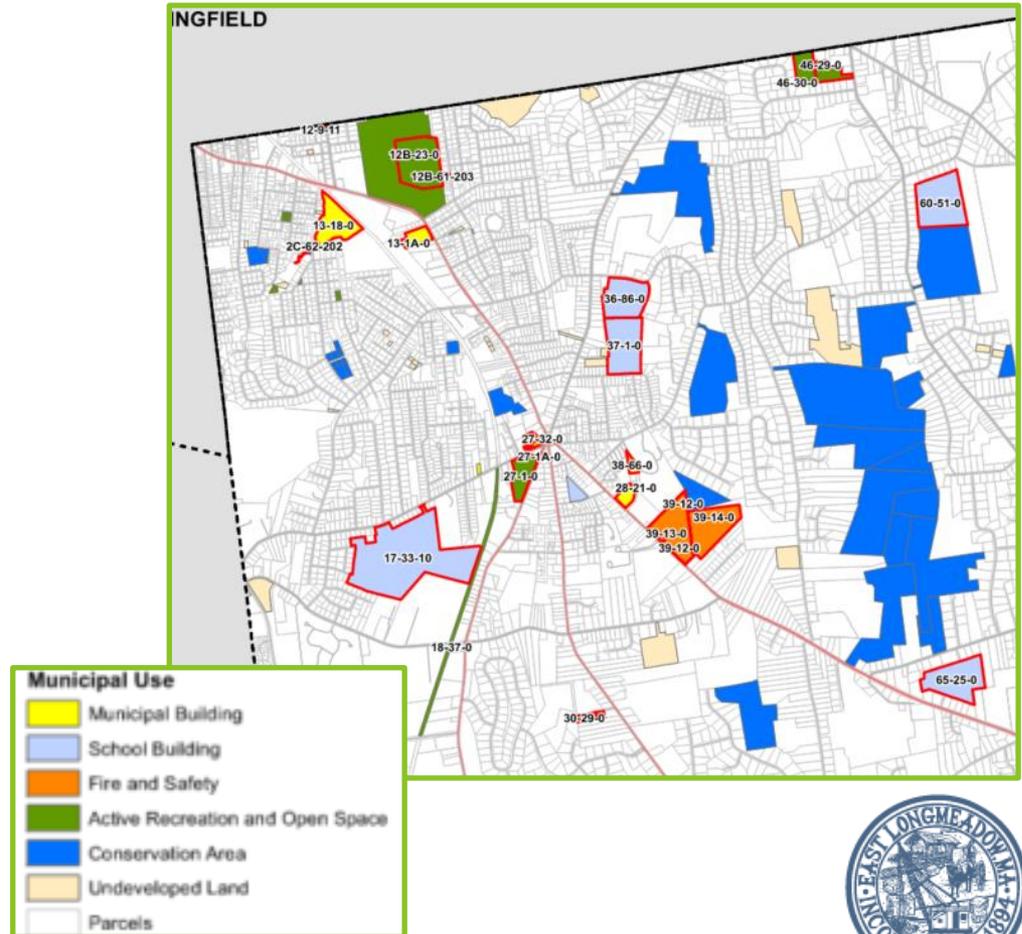
- **MCMs 4 & 5: Construction Site and Post-Construction Stormwater Management**
 - Nitrogen Source Identification Report completed in 2022
 - Identification of high nutrient loading catchments and potential retrofit opportunities
 - MVP Grant assessed Low Impact Development (LID) opportunities at 10 priority culverts, including conceptual designs, estimated costs, and anticipated implementation schedule
 - Scheduled to start in FY25 pending available funding



EAST LONGMEADOW'S SWMP: PY 5 IN REVIEW

- **MCM 6: Good Housekeeping and Pollution Prevention for Permittee Owned Operations**

- Ongoing catch basin inspection / cleaning
- 2x/year street sweeping
- Implementation of Operations and Maintenance (O&M) program for municipal facilities and activities



EAST LONGMEADOW'S SWMP: PLANNED FOR PY 6

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 6 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

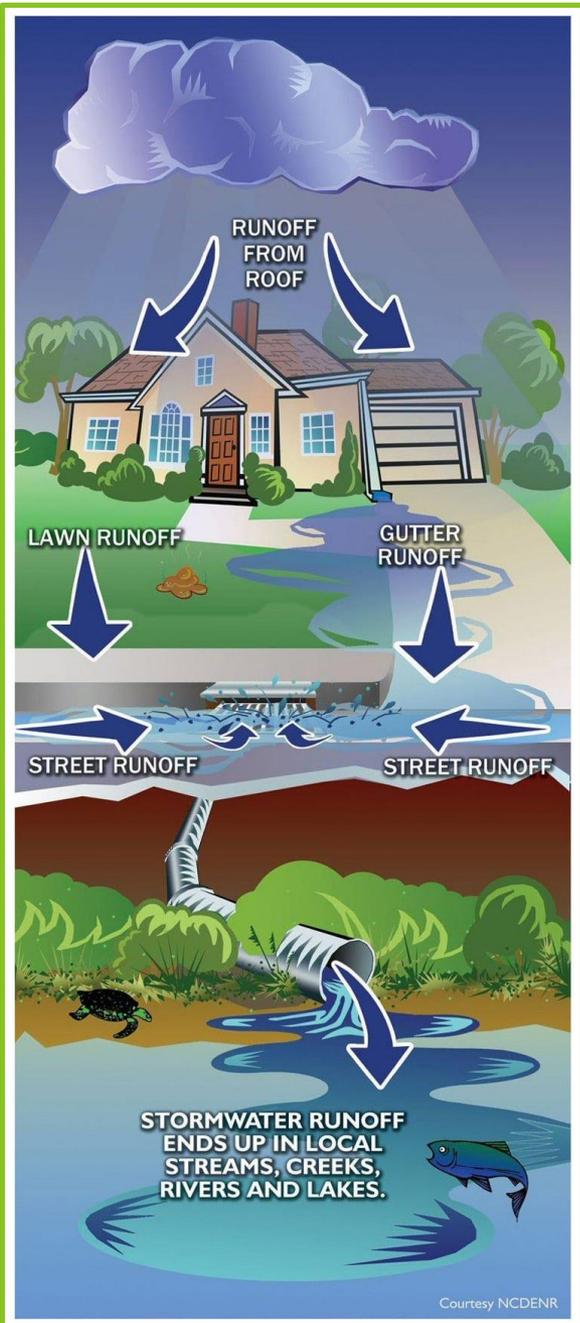
Yes, I agree

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining



EAST LONGMEADOW'S SWMP: PLANNED FOR PY 6



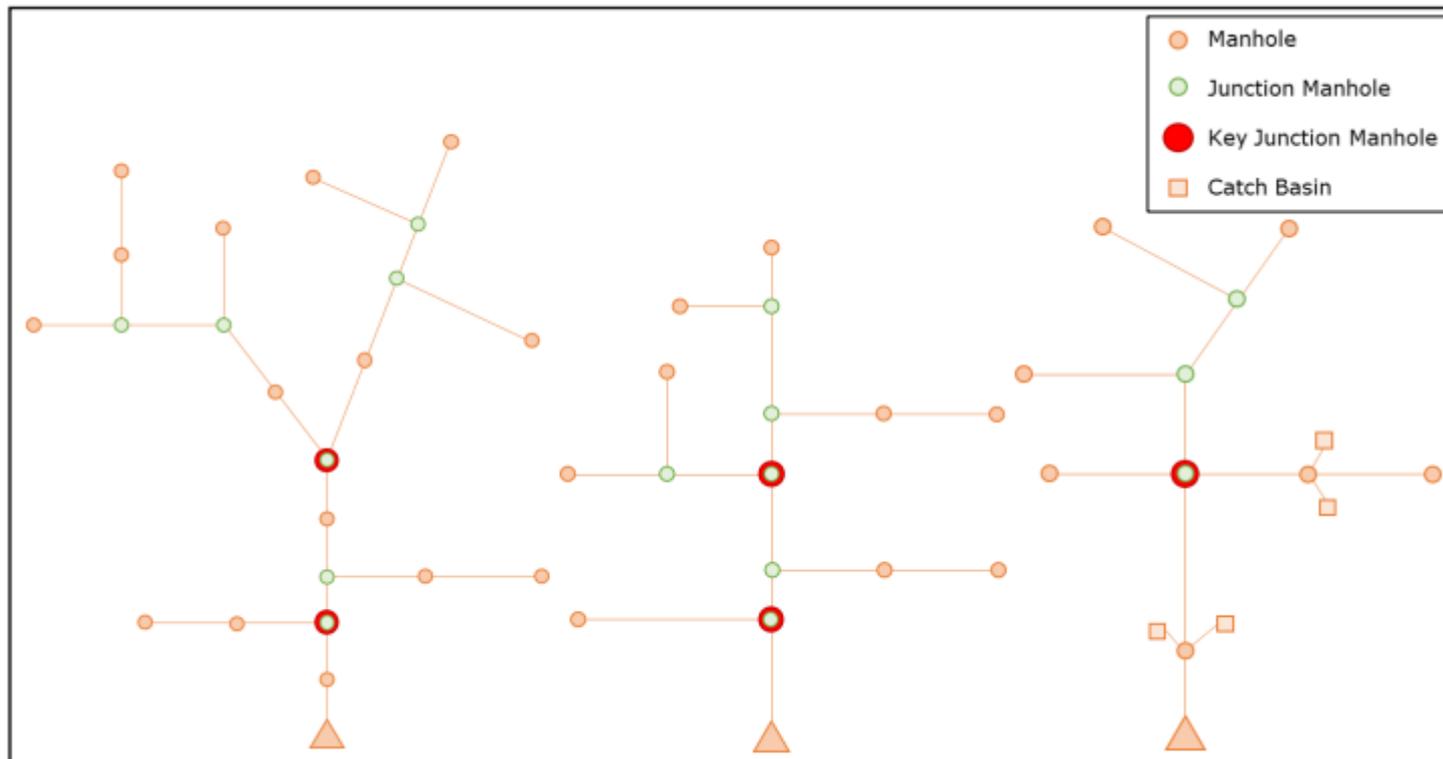
- **MCM 1: Public Education and Outreach**
 - Continue with annual messages
 - PVPC CT River Stormwater Committee continuing to lead public outreach efforts
- **MCM 2: Public Involvement and Participation**
 - Continue to make SWMP available for public review and comment
 - Consider other, safe ways to involve public in stormwater program



EAST LONGMEADOW'S SWMP: PLANNED FOR PY 6

- **MCM 3: IDDE Program**

- Continuation of Catchment investigations
 - Identification of key junction manholes
 - Inspection of key junction manholes under dry weather conditions



EAST LONGMEADOW'S SWMP: PLANNED FOR PY 6

- **MCM 4: Construction Site Stormwater Runoff Control**
 - Continue performing and tracking site plan reviews and inspections
- **MCM 5: Post-Construction Stormwater Management**
 - Continue to enforce revised bylaw



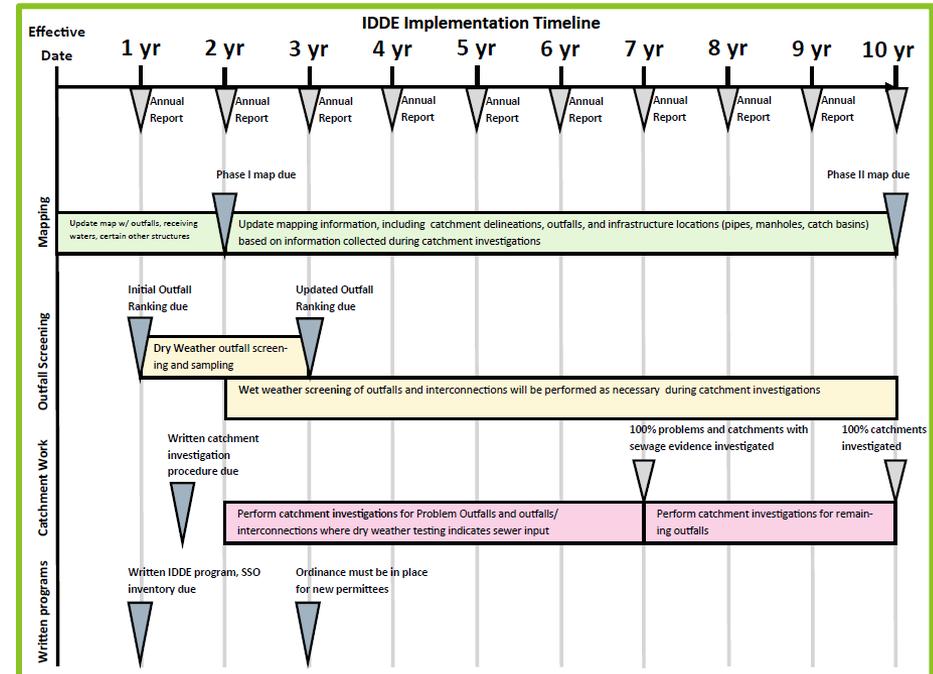
EAST LONGMEADOW'S SWMP: PLANNED FOR PY 6

- **MCM 6: Good Housekeeping and Pollution Prevention for Permittee-Owned Operations**
 - Continued implementation of Good Housekeeping SOPs
 - Annual requirements, including advancing design and permitting and seeking funds to implement BMP retrofits
 - Record keeping



SUMMARY OF EAST LONGMEADOW'S SWMP

- East Longmeadow is actively meeting its requirements under the MS4 program
- PY 5 Annual Report due to be submitted to EPA and MassDEP by September 28, 2023
- MS4 General Permit was administratively continued until a new permit is issued.



LOOKING AHEAD AT FUTURE REQUIREMENTS



Annual reporting and tracking requirements



PY 6: implement recommendations from planning reports, install one demonstration retrofit BMP



PY10: complete Phase II map and catchment investigations



TBD: New MS4 Permit





QUESTIONS AND DISCUSSION

