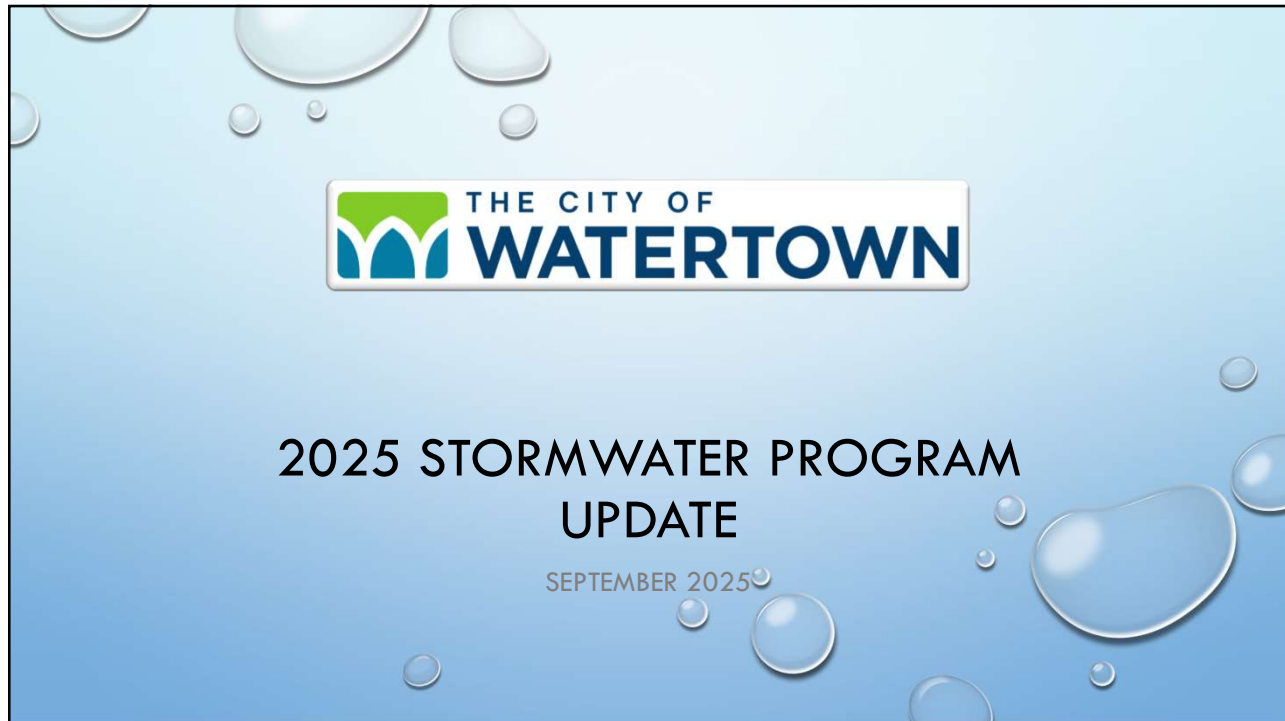
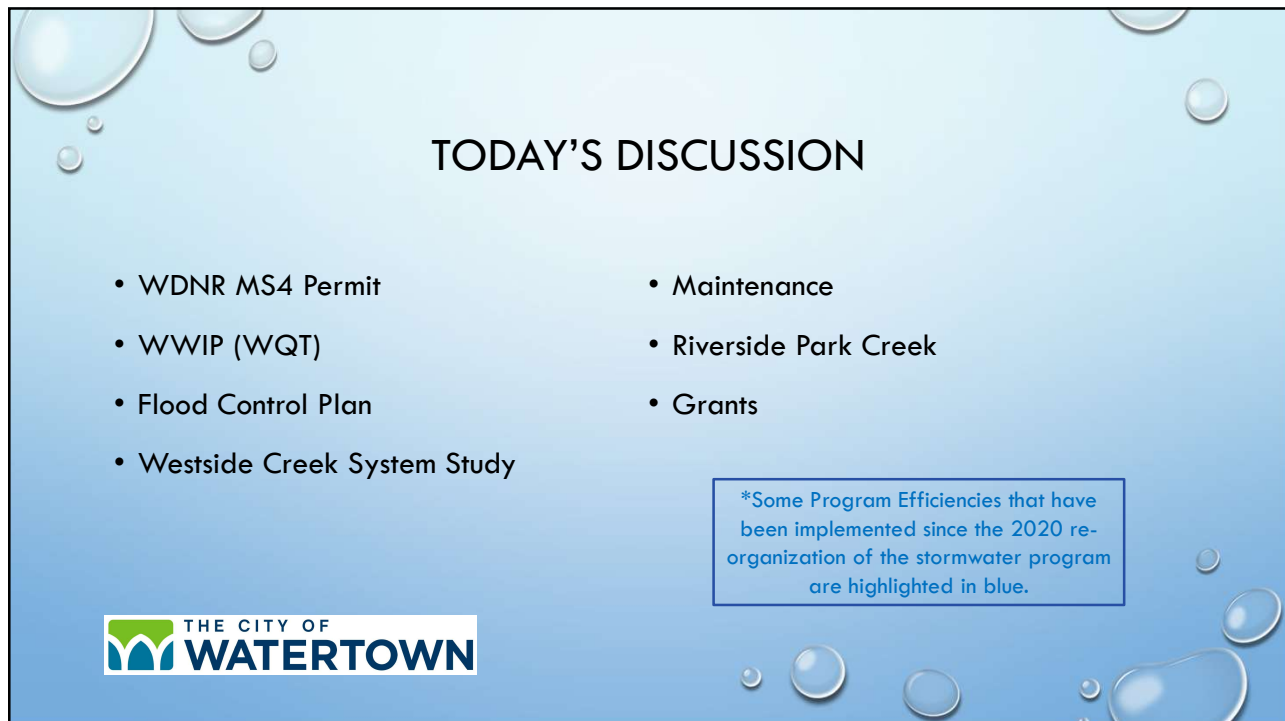




1



2

## STORMWATER PROGRAM

- Pollutant Control – to protect quality of life for residents, property owners and meet *Wisconsin Department of Natural Resources Stormwater (MS4) Permit*
- Flood Control – to minimize flooding impacts to public infrastructure and public/private properties
- Maintenance – needed to ensure function and performance of system



3

## WDNR MS4 PERMIT

- WPDES Municipal Separate Stem Sewer System (MS4) General Permit
  - 6 Minimum Measures
  - 20% TSS Reduction Requirement
  - Rock River Basin TMDL Pollutant Reductions (TSS & TP)
    - Water Quality Trading
  - Nationwide permit program; >150 permitted in WI



4

It's Wisconsin  
Stormwater Week!  
Sept. 20 – Sept. 28

## MS4: OUTREACH & EDUCATION (1)

- City Connection Newsletter
- Social Media
- Website
- Brochures @ City Hall
- Signage/Posters
- Tables at Lights & Sirens, Boo Bash, Farmer's Markets



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## MS4: PUBLIC INVOLVEMENT (2)

- Annual Rain Barrel Workshop – Rock River Coalition
  - ~30 Attendees
- Citizen Stream Monitoring Training – Rock River Coalition
- Streambank Clean-up @ Riverside Park
  - Rock River Stormwater Group
  - Saturday, September 20<sup>th</sup> @ 9:00

\* Partnering with other organizations expands offerings to meet resident needs at low cost.



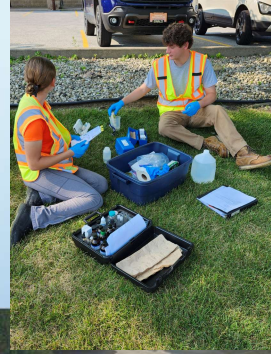
6

## MS4: ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) (3)

- 553 Storm Sewer Outfalls to Rock River, creeks, wetlands
- 49 IDDE Inspections Completed Annually
  - ~2 dozen in-field tests completed annually
- 0 “hits” detected in last 3 years
- Mini-Storm Program to capture water from foundation drains



\*In-house field-testing reduced \$3,000 annual lab fee down to cost of supplies.



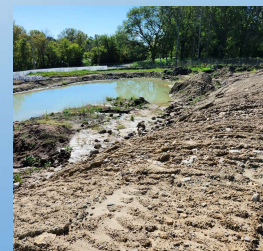
7

## MS4: CONSTRUCTION SITE POLLUTANT CONTROL (4)

- 76 Erosion Control Inspections completed in 2024
  - Monthly EC Inspections
    - Weekly if there are problems on site
  - Bi-monthly for Inactive Sites
- Try to meet with site project manager at beginning of project, and again if there are concerns or noncompliance issues.



\*In-house erosion control inspections reduces cost developer pays for 3<sup>rd</sup> party inspector.



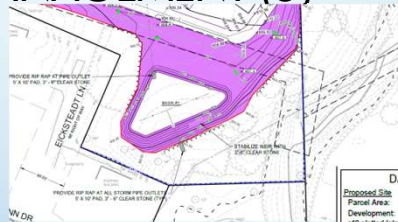
8

## MS4: POST-CONSTRUCTION STORMWATER MANAGEMENT (5)

- New Stormwater BMPs in 2024:
  - YMCA – 1 Biofilter
  - Rock River Ridge – 2 Wet Ponds
  - New Fire Station – 3 Biofilters
  - Yard Waste Site Sandy Biofilter (DNR Grant)
  - Boomer Street – 2 Biofilters
- Permits/Plan Reviews: Issued 19 EC & SW Permits; 13 Plan Reviews & Revisions
- 34 BMPs Inspected in 2024; 7 Maintenance Letters sent + Work Orders for City Crews



\*In-house plan reviews reduces cost to developer for 3<sup>rd</sup> party reviewer; also ensures comprehensive, integrated multi-departmental review at City.



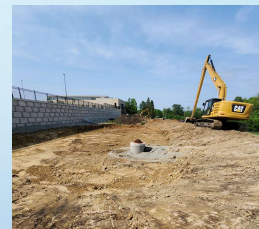
| DATA SUMMARY                   |                       |
|--------------------------------|-----------------------|
| Proposed Site                  |                       |
| Parcel Area:                   | 13.135 acres          |
| Development:                   | 44 lots               |
| (40 planned lots & 4 CDM lots) |                       |
| Density:                       | 3.35 lots/acre        |
| Average Lot Size:              | 7,267 s.f. (0.163 Ac) |
| Proposed Building Footprints:  |                       |
| Street (Front):                | 24'                   |
| Street (Corner):               | 20'                   |
| Rear:                          | 25'                   |
| Side:                          | 6'                    |
| Min. Lot Width:                | 45'                   |



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## RECENT STORMWATER BMPS/DEVELOPMENTS

- YMCA – 1 Biofilter
- Rock River Ridge – 2 Wet Ponds
- New Fire Station – 3 Biofilters
- Yard Waste Site Sandy Biofilter (DNR Grant)
- Current requirements – state, city, WQ, quantity;
  - Managing Expectations: 10-year event piping, 6 inches stormwater in road, prioritize EMT/truck routes, & other flood plan goals



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## MS4: POLLUTION PREVENTION (6)

- Municipal Operations Stormwater Data:

- 232 Lane Miles Swept (2024)
- 450 yards of sediment and debris collected from street sweeper and catch basins (2024)
- 166 bags + 3,320 yards of leaves collected curbside (2024)
- 1,635 tons of salt, 3,719 gallons of brine\* applied to streets (2024)

\*Brine = 77% water, 23% salt mixture



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## MS4: MS4 MAP (GIS UPDATES)

- Recent Updates to Stormwater Layers

- Added Culverts, Swales, Updated Wetlands, & 6 Sub-Basins
- Added/Improved Labeling, Query and Export Features
- Added Project Area Selection Feature
- Provided Guidance for Staff GIS Updates, As-BUILTs, etc.
- Coordinated Updates in FieldMaps & Stormwater Editor (desktop)
- Joint meeting with Fire Dept., County (GIS) & Engineering (SW)



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## MS4: TMDL / WATER QUALITY TRADING

- Watertown Waterways Improvement Program (WWIP)
  - 1<sup>st</sup> Practice Completed & Installed
- New Stormwater BMPs – City & Private
- Leaf Collection + Increased Street Sweeping during Fall
- Streambank Stabilization –*currently evaluating*



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## WATER QUALITY TRADING

- 1<sup>st</sup> Practice Completed in 2024
  - 10-year Agreement signed with Owner
  - Buffers have been Installed
  - DNR reviewed and conditionally approved practice
- 2<sup>nd</sup> Practice: Develop in 2025, Install in 2026
- Based on 1<sup>st</sup> practice, about 24 more practices needed

**Table 1**

| Pollutant              | Interim Credit | Long-Term Credit |
|------------------------|----------------|------------------|
| Total Phosphorus       | 14.8 lbs/year  | 58.45 lbs/year   |
| Total Suspended Solids | 2.18 tons/year | 6.53 tons/year   |

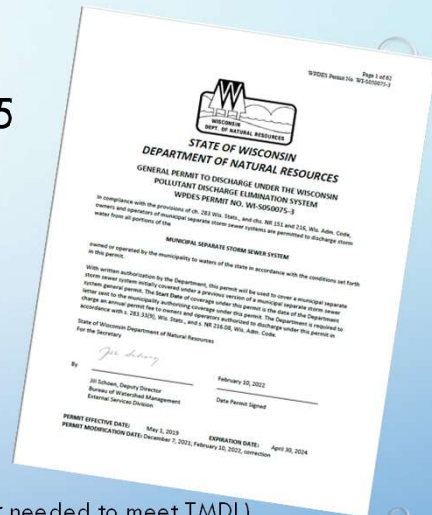
*\*Innovative water quality trading program, developed with partners and with cooperation from WDNR, reduces cost of TMDL compliance from \$13 Million + to \$1.5 Million (current projected estimate).*



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## COMING IN 2025

- Next 5-year MS4 Permit Anticipated in 2025
  - Develop Plans for Impaired Waterways
  - Updates to Written MS4 Permit Programs
  - IDDE Analysis, Implementation & Protocols
  - Greater Focus on Maintenance: Private & Public BMPs
  - Enhanced SWPPPs
  - Salt Use Reporting, Calibration of Equipment
  - TMDL Reductions: 20% TSS, 10% Phosphorus (of remainder needed to meet TMDL)
  - ???????

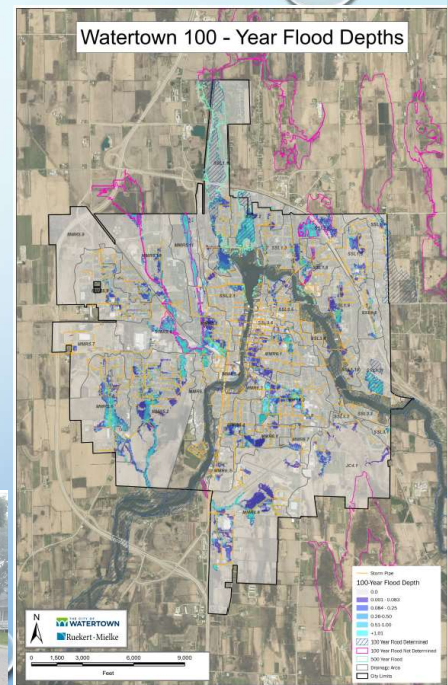


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## FLOOD CONTROL PLAN

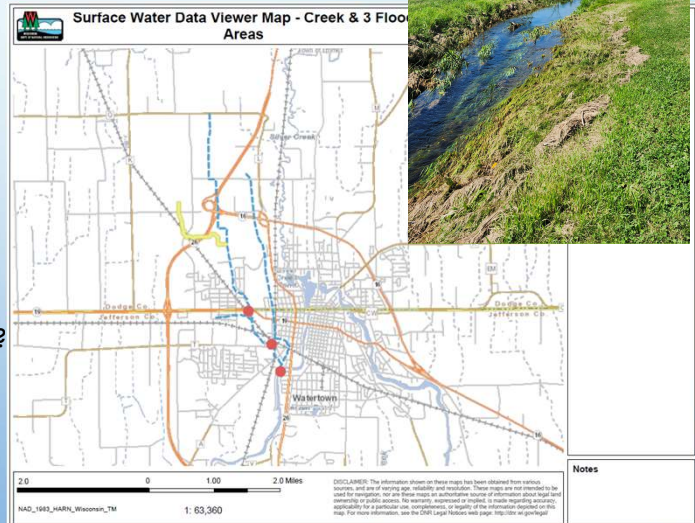
- 2024 City-wide Flood Control Master Plan
  - 15 Priority Flooding Areas
  - Detailed, Site-specific Drainage Study and Design needed for each area & solution
  - Hart Street – Next Steps
  - Westside Creek System Study
    - WEM Grant Application

Goal is to *minimize* flooding, and to recover quickly afterwards.



## WESTSIDE CREEK SYSTEM STUDY

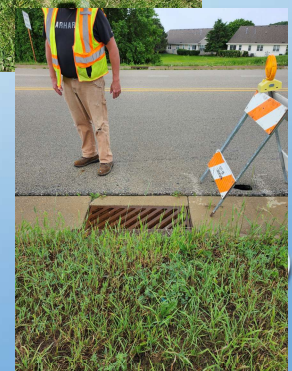
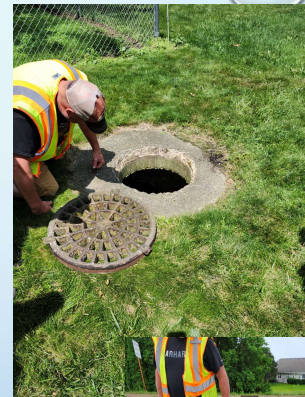
- 5 Major Flooding Areas Drain To Westside Creek System
- Drainage Area is Outside/Upstream of City & along west of Church Street
- Can receiving creek handle more water from new flood control projects?
- WEM Grant? 75% Cost, City= 25%



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## MAINTENANCE

- Annual Storm Sewer Cleaning and Televising
  - Heavy Cleaning Needed in Specific Areas
- Storm Sewer Repairs
  - City Crews Completing Discovered Maintenance
- BMP Maintenance: Routine and Occasional Tasks
  - Routine Examples: Vegetation Clearing, Minor Inlet/Outlet Repairs,
  - Occasional Examples: Dredging, Re-shaping BMPs, Re-stabilization



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## 2024 CLEANING & TELEVISION



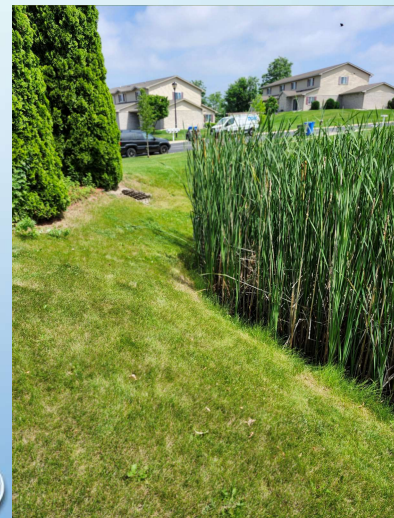
19

## BMP MAINTENANCE

- 105 Stormwater Best Management Practices (BMPs) (Public and Private)
  - ~30 are City-owned BMPs, Inspected Annually
  - ~25 Private BMPs are Inspected Once every 3 years
  - Underground systems are inspected by 3<sup>rd</sup> parties; reports submitted to City



\*Train and work with interns annually to inspect public and private BMPs to complete work and minimize costs for property owners.



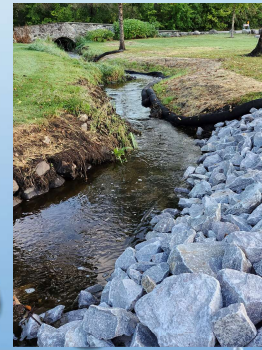
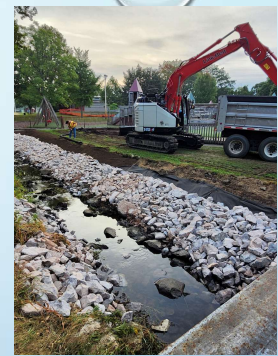
20

## RIVERSIDE PARK CREEK

- 2022-2023: Dodge County Land & Water Conservation Department: Plan Development and Cost-Share Program
- 2024: City Crews Dredged Invasive Plants/Installed Riprap in Critical Areas
- 2025: Rock River Coalition Organizing Native Planting Installation
  - Saturday, 9/13/25 9:00-2:00 Volunteer Workday



\*Utilized relationships with partners to execute project at minimal cost.



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## GRANTS

\*Blue = Stormwater Grants

|                                            |                                           |           |        |                |          |
|--------------------------------------------|-------------------------------------------|-----------|--------|----------------|----------|
| <b>UNPS &amp; Storm Water Planning</b>     | Storm Water Planning Updates              | 2022-2023 | WDNR   | \$70,000.00    | Complete |
| <b>LRIP</b>                                | Market Way                                |           | WisDOT |                | Complete |
| <b>UNPS &amp; Storm Water Construction</b> | 2023 Streets Catch Basins                 | 2023-2024 | WDNR   | \$49,785.00    | Complete |
| <b>UNPS &amp; Storm Water Construction</b> | Yard Waste Site Biofilter                 | 2023-2024 | WDNR   | \$150,000.00   | Complete |
| <b>TAP Grant</b>                           | Tivoli Island Historic Bridge Study       | 2023-2027 | WisDOT | \$25,600.00    | Active   |
| <b>TAP Grant</b>                           | City-wide Bike & Ped Network Plan         | 2023-2027 | WisDOT | \$80,000.00    | Active   |
| <b>HSIP</b>                                | Welsh Road                                | 2023      | WisDOT | \$171,643.50   | Complete |
| <b>BIL-STP Urban</b>                       | Dewey Ave.                                |           | WisDOT | \$1,425,760.00 | Active   |
| <b>BIL-STP Local</b>                       | S. First St. & Western Ave.               |           | WisDOT | \$500,000.00   | Active   |
| <b>BIL</b>                                 | N. Fourth Street Resurfacing              | 2023      | WisDOT | \$426,882.40   | Complete |
| <b>Local Bridge</b>                        | Cady Street Bridge Rehab                  | 2023      | WisDOT | \$363,400.00   | Complete |
| <b>Dodge County LWCD</b>                   | Riverside Park Creek Improvements         | 2024      | WisDOT | \$13,900.00    | Complete |
| <b>STP Urban</b>                           | Labaree Street                            | 2025-2029 | WisDOT | \$923,776.00   | Active   |
| <b>TAP Grant</b>                           | S. Church Street Shared-use Path          | 2024-2028 | WisDOT | \$1,213,256.66 | Active   |
| <b>Targeted Runoff Management Grant</b>    | Fannie Lewis Park Shoreline Stabilization | 2025-2026 | WDNR   | \$113,943.00   | Active   |
|                                            | Total Grant Awards:                       |           |        | \$5,444,046.56 |          |

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## QUESTIONS & DISCUSSION

