

2025 STORMWATER PROGRAM UPDATE

SEPTEMBER 2025

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TODAY'S DISCUSSION

- WDNR MS4 Permit
- WWIP (WQT)
- Flood Control Plan
- Westside Creek System Study
- Maintenance
- Riverside Park Creek



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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






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WDNR MS4 PERMIT

- WPDES Municipal Separate Storm 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

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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 20th @ 9:00

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





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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 Inspections reduced \$3,000 annual fee to cost of supplies.




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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 inspections reduces cost developer pays for 3rd party inspector.





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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 3rd party reviewer; also ensures comprehensive, integrated multi-departmental review of City.







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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)
- Boomer Street – 2 Biofilters
- 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)
 - 1st 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

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

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.

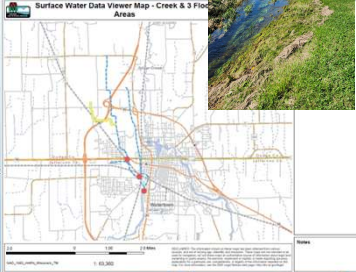
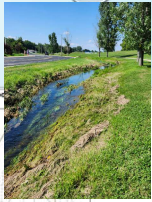





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WESTSIDE CREEK SYSTEM STUDY

- 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

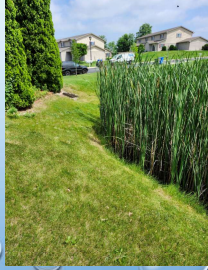



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BMP MAINTENANCE

- 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 3rd parties; reports submitted to City



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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




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GRANTS

TRIPS & Storm Water Planning	Storm Water Planning Updates	2022-2023	WDNR	\$70,000.00	Complete
LRIP	Market Way		WisDOT		Complete
TRIPS & Storm Water Construction	2023 Streets Catch Basins	2023-2024	WDNR	\$49,785.00	Complete
TRIPS & Storm Water Construction	Yard Waste Site Biofilters	2023-2024	WDNR	\$150,000.00	Complete
TAP Grant	Tivoli Island Historic Bridge Study	2023-2027	WisDOT	\$25,600.00	Active
TAP Grant	City-wide Bike & Ped Network Plan	2023-2027	WisDOT	\$80,000.00	Active
HSP	Welsh Road	2023	WisDOT	\$171,643.50	Complete
BIL-STP Urban	Dewey Ave.		WisDOT	\$1,425,760.00	Active
BIL-STP Local	S. First St. & Western Ave.		WisDOT	\$500,000.00	Active
BIL	N. Fourth Street Resurfacing	2023	WisDOT	\$426,882.40	Complete
Local Bridge	Cady Street Bridge Rehab	2023	WisDOT	\$363,400.00	Complete
Dodge County LWCD	Riverside Park Creek Improvements	2024	WisDOT	\$13,900.00	Complete
STP Urban	Labaree Street	2025-2029	WisDOT	\$923,776.00	Active
TAP Grant	S. Church Street Shared-use Path	2024-2028	WisDOT	\$1,213,256.66	Active
Targeted Runoff Management Grant	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




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