



Public Works Committee Meeting

Cravath Lakefront Room, 2nd Floor
312 W. Whitewater St.
Whitewater, WI 53190
*In Person and Virtual

Tuesday, October 14, 2025 - 5:15 PM

MINUTES

CALL TO ORDER

The Public Works meeting was called to order by Board President Hicks at 5:15 p.m.

ROLL CALL

PRESENT: Board Member M. Smith, Board Member Hicks, Board Member Majkrzak

ABSENT: None

OTHERS: Marquardt

APPROVAL OF AGENDA

Motion made by Board Member Majkrzak to approve the agenda for Tuesday, October 14, 2025, Seconded by Board Member M. Smith.

Voting Yea: All via voice (3)

Voting Nay: None

APPROVAL OF MINUTES

1. **Approval of minutes from September 9, 2025**

Motion made by Board Member M. Smith to Approve the minutes from September 9, 2025, Seconded by Board Member Majkrzak.

Voting Yea: All via voice (3)

Voting Nay: None

HEARING OF CITIZEN COMMENTS

None

NEW BUSINESS

2. **Discussion and Possible Action regarding the 2025 update to the Stormwater Quality Management Plan Update.**

Marquardt stated the City has a Municipal Separate Storm Sewer System (MS4) Permit from the DNR. As part of the permit, the City is required to remove Totals Suspended Solids and Total Phosphorus from stormwater runoff. To keep the DNR apprised of our doings, the City has a Stormwater Quality Management Plan (SQMP), which was last updated in 2017. The SQMP updates where the City stands in compliance with Total Suspended Solids and Total Phosphorus removal in meeting the Rock River total maximum daily load (TMDL) criteria. The SQMP also provides alternative analysis and an implementation plan on how the City plans on meeting the TMDL criteria in the future. The Common Council Approved Task Order 24-02 in January 2024 to update the SQMP.

The SQMP involves several alternatives to meet the TDML removal requirements. Projects will be selected and submitted for Capital Improvement Projects in future years. Money to pay for these projects will come from the Stormwater Utility.

Strand Associates has been working on updating the SQMP for the City to submit to the DNR.

Jon Lindert was in attendance to give an overview of the SQMP.

The Strand presentation is included at the end of the minutes.

Staff recommended a motion to accept the Stormwater Quality Management Plan.

Motion made by Board Member Majkrzak to Approve the 2025 update to the Stormwater Quality Management Plan, Seconded by Board Member Hicks.

Voting Yea: All via voice (3)

Voting Nay: None

3. **Discussion and Possible Action regarding John's Disposal Rate Increase for 2026.**

Marquardt stated staff received a request from John's Disposal asking for a 3% cost of living increase (\$0.47) per unit monthly increase as outlined below. According to the contract, John's may request an annual adjustment up to the Consumer Price Index (CPI). The CPI is 3.0%.

	<u>2025</u>	<u>2026 (3%)</u>	<u>Increase</u>
Garbage	\$9.47	\$9.75	\$0.28
Recycle	\$4.37	\$4.50	\$0.13
Bulk	<u>\$2.11</u>	<u>\$2.17</u>	<u>\$0.06</u>
	\$15.95	\$16.42	\$0.47

This item was tabled at the September 9, 2025, Public Works Committee meeting.

In September of 2019, John's Disposal was approved for a recycling rate increase from \$2.59 to \$3.59 for 2020. In October 2020, John's Disposal was approved for a recycling rate increase from \$3.59 to \$3.84 for 2021. In September 2021, John's Disposal was approved for rate increases for garbage from \$8.29 to \$8.70, recycling from \$3.84 to \$3.85, and bulk from \$1.66 to \$1.85 for 2022. In October 2022, John's Disposal was approved for rate increases for garbage from \$8.70 to \$9.00, recycling from \$3.85 to \$4.15, and bulk from \$1.85 to \$2.00 for calendar year 2023. In September 2023, John's Disposal was approved for rate increases for garbage from \$9.00 to \$9.25, recycling from \$4.15 to \$4.27, and bulk from \$2.00 to \$2.06 for calendar year 2024. In September 2024, approval was granted for rate increases in garbage from \$9.25 to \$9.47, recycling from \$4.27 to \$4.37 and bulk from \$2.06 to \$2.11.

The City is estimating a total count of 2,770 units for the 2026 budget. The overall increase of \$0.47 results in an overall increase of \$15,622.80 for 2026.

According to the Agreement, if John's Disposal was asking for a rate increase greater than the CPI, the City could terminate the contract at the end of the year. Since the requested increase is in line with the CPI, staff's recommendation is for the Committee to recommend approval of the rate increase for 2026 to the full Council.

Motion made by Board Member M. Smith to Approve John's Disposal Rate Increase for 2026, Seconded by Board Member Majkrzak.

Voting Yea: All via voice (3)

Voting Nay: None

4. **Discussion and Possible Action regarding the selection of a consulting firm to provide City Engineering Services.**

Marquardt stated City staff issued a Request for Proposals for City Engineering Services for the Public Works Department on August 25, 2025. Eight proposals were received on September 25, 2025. Firms submitting a proposal included: Baxter & Woodman Inc, CBS², Cedar Corporation, GRAEF, MSA Professional Services Inc., SHE Inc., Strand Associates, and Trotter & Associates Inc.

A selection committee comprised of the Park & Recreation Director Kevin Boehm, Street Superintendent Brian Neumeister, Water Superintendent Josh Hyndman, Wastewater Superintendent Ben Mielke, Alderperson Mike Smith, and Public Works Director Brad Marquardt reviewed the proposals. The consensus of the committee was that all firms could perform the requested work and that the billing rates were all in line with each other; however, due to the expansive satisfactory work that Strand Associates has completed in the City since 1992, there was no reason to select a different firm based on the proposals received. Proposals can be reviewed at City Hall upon request.

The Public Works Committee and City Council approved the issuance of the Request for Proposals for City Engineering at their respective August 12, and August 19, 2025, meetings.

The financial impact is based on specific projects and the billing rates of selected individuals with the firm working on said project. There is no annual fee associated with entering into an Agreement with the selected firm.

Staff recommended a motion to select Strand Associates for performing City Engineering Services and send them to the full City Council for approval.

Motion made by Board Member M. Smith to Approve the selection of Strand Associates for performing City Engineering Services to the City of Whitewater, Seconded by Board Member Majkrzak. Marquardt stated the term will be a five-year agreement with two one-year extensions.

Voting Yea: All via voice (3)

Voting Nay: None

Andy Constant, from Strand Associates, spoke on the long-standing history Strand has with the City of Whitewater. He thanked the members for their vote in confidence with Strand Associates.

5. **Discussion and Possible Action regarding the acquisition of right-of-way at the southeast corner of W. Main Street and Franklin Street.**

Marquardt stated the Public Works Committee was asked by Council to review the turning movements of semitrucks at the corner of Franklin Street and W. Main Street. Due to the configuration at the southeast corner, semitrucks have a hard time maneuvering the northbound to eastbound turn, often hitting the bollards that are in place to protect the traffic signals from getting hit. After reviewing preliminary designs, the Public Works Committee and Council approved a Task Order from Strand Associates for the redesign of the southeast corner of the intersection. The realignment requires an acquisition of 212

square feet of real estate for right-of-way purposes and 1,661 square feet for temporary construction easement.

The Public Works Committee and Council Approved a Strand Task Order for the redesign of the intersection at their respective April 8, and April 15, 2025, meetings. The Plan and Architectural Review Committee approved proceeding with the acquisition of the property needed at their September 8, 2025, meeting.

The financial impact on the real estate acquisition is unknown at this time as negotiations with the property owner will need to take place. Staff would like to use the Walworth Avenue Sales Study from July 2024 for guidance in regard to price for the real estate acquisition and the temporary limited easement. The study suggested a rate of \$4.00 for the acquisition of vacant property with a template to determine a rate for the temporary limited easement.

Staff recommended the committee direct staff to negotiate with the property owner using the Walworth Avenue Sales Study as guidance.

Motion made by Board Member Majkrzak to Approve negotiations regarding acquisition of right-of-way at the southeast corner of W. Main Street and Franklin Street, Seconded by Board Member Hicks.

Voting Yea: All via voice (3)

Voting Nay: None

6. **Discussion and Possible Action regarding Amendment No. 1 to Task Order No. 25-04, Wastewater Treatment Plant Return Activated Sludge Pump Addition.**

Marquardt stated Strand has been in the process of developing plans and specifications for the implementation of a fourth Return Activated Sludge (RAS) pump at the wastewater facility. The plans are finalized and ready to be advertised for bidding with construction of the installation of the pump to commence shortly after.

This Amendment includes services related to bidding and construction related services as outlined in the attached Task Order Amendment. Some construction related services include reviewing shop drawings, attending progress meetings, onsite observation of construction, review of supervisory control and data acquisition system start up, training and as-built drawings.

The Public Works Committee and Common Council approved Task Order 25-04 in February 2025.

The cost of the Amendment is \$42,000, raising the compensation from \$36,000 to \$78,000.

Staff recommended a motion to recommend approval of Amendment No. 1 to Task Order 25-04 and forward to the Common Council.

Motion made by Board Member Majkrzak to Approve Amendment No. 1 Task Order No. 25-04, Wastewater Treatment Plant Return Activated Sludge Pump Addition, Seconded by Board Member Hicks.

Voting Yea: All via voice (3)

Voting Nay: None

7. **Discussion and Possible Action regarding additions and deletions to Municipal Code 11.16.150, Street index of parking restrictions.**

Marquardt stated the Police Department made staff aware of a parking restriction discrepancy on Center Street with what was posted versus what was in the Municipal Code. After reviewing multiple discrepancies associated with Center Street, staff reviewed all the streets listed in the Street Index of the Municipal Code versus what was posted on the street. Marquardt did note that he missed some changes on Whitewater Street in front of the Municipal Building. There are four stalls, two are labeled for handicapped parking and two are law enforcement stalls. In addition, there is a stall in front of the attorney's office, which should be marked as two-hour parking.

The Public Works Committee reviewed some of these discrepancies at their September 9, 2025, meeting. The input of those discussions has been incorporated into the recommended changes. Discrepancies with Elizabeth Street have not been included as a meeting with the school district is planned to take place in November.

There may be minimal financial impacts with the installation, removal or changing of signs by the Street Department staff.

Staff recommended a motion to recommend approval of the changes to the Street Index of Parking Restrictions and forward to the Common Council.

Motion made by Majkrzak to Approve the additions and deletions to Municipal Code 11.16.150, Street index of parking restrictions, Seconded by Board Member Hicks.

Voting Yea: All via voice (3)

Voting Nay: None

8. **Discussion and Possible Action regarding changes to Municipal Code 8.29, Recycling.**

Marquardt stated the Wisconsin Department of Natural Resources has made changes to their recycling rules in ch. NR 544, Wis. Adm. Code. They created a sample ordinance template with sections that are required to be in a municipality's ordinance. These sections include Separation of Recyclable Materials, Separation Requirements Exempted, Responsibilities of Owners or Designated Agents of Multifamily Dwellings, Responsibilities of Owners or Designated Agents of Non-Residential Facilities and Properties, Prohibition on Disposal of Recyclable Materials Separated for Recycling, and Enforcement. These sections have been added with existing sections deleted or modified to make the City's ordinance in compliance with Wisconsin State Statute 287.11.

There is no direct financial impact to the City.

Staff recommended a motion to recommend approval of the changes to Municipal Code 8.29, Recycling and forward to the Common Council.

Motion made by Board Member Majkrzak to Approve the changes to Municipal Code 8.29, Recycling, Seconded by Board Member M. Smith.

Voting Yea: All via voice (3)

Voting Nay: None

9. **Discussion and Possible Action regarding public utility easement at 960 E. Milwaukee Street.**

Marquardt stated the Wastewater Utility has a sanitary lift station located in the southwest corner of 960 E. Milwaukee Street. Currently, if the station loses power, staff must mobilize a portable generator to run the station. With the removal of the Fraternity lift station, the generator that was serving this lift station is

being moved to Milwaukee Street location. The generator will be hooked up to natural gas and be able to start if the station loses power. The Milwaukee lift station is currently on a 10 foot by 25-foot permanent easement. The new easement will encompass the existing easement area making the new permanent easement 20 foot by 25 foot as depicted in Exhibit B on the attached.

Staff recommended a motion to recommend approval of the utility easement at 960 E. Milwaukee Street and forward to the Common Council.

Motion made by Board Member Hicks to Approve the utility easement at 960 E. Milwaukee Street,
Seconded by Board Member M. Smith.

Voting Yea: All via voice (3)

Voting Nay: None

FUTURE AGENDA ITEMS

None

ADJOURNMENT

Motion made by Board Member M. Smith to adjourn the Public Works Meeting at 6:11 p.m., Seconded by Board Member Majkrzak.

Voting Yea: All via voice (3)

Voting Nay: None

Respectfully submitted,

Alison Stoll

Alison Stoll, Administrative Assistant
Department of Public Works

*Minutes approved on _____



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ASSOCIATES®

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Stormwater Quality Management Plan Update

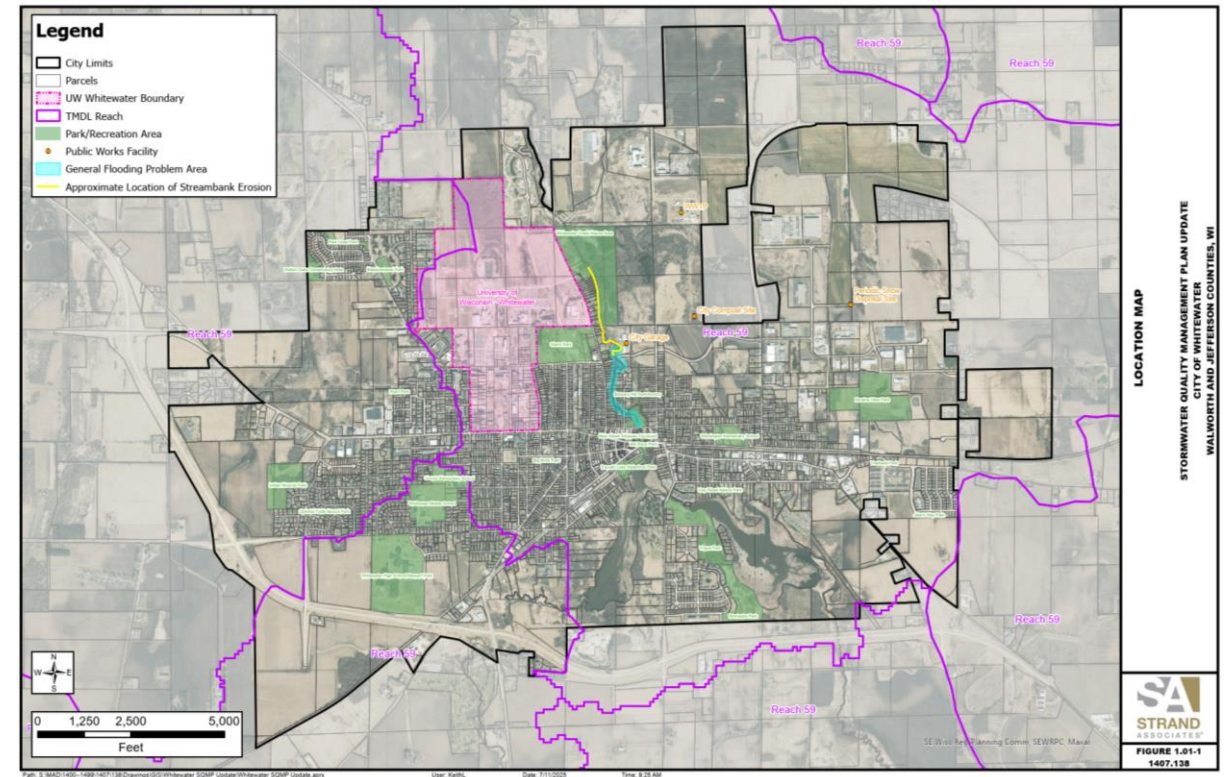
City of Whitewater, WI

October 14, 2025



Agenda

- Introduction
- Current/Updated Stormwater Program
- Rock River TMDL
- Stormwater Quality Modeling
- Alternative Analysis
 - BMPs in City
 - Water Quality Trading
 - Watershed Adaptive Management
- Implementation Plan
- Recommendations




Introduction

- City's Stormwater Permit for its Municipally Separate Storm Sewer System (MS4)
 - WPDES Permit No. WI-S050075-3 (May 1, 2019 to April 30, 2024)
- Stormwater Quality Management Plan (SQMP) History
 - 2008 (Original), 2011 (Update), 2017 (TMDL), 2021 (Appendix-MS4 Program Updates)
- Pollutant Reduction Requirements
 - **MS4:** 20% Total Suspended Solids (TSS) Reduction
 - **Rock River Basin Total Maximum Daily Load (TMDL)**
 - 49.0% TSS Reduction
 - 66.4% Total Phosphorus (TP) Reduction
 - Rock River is a 303 (d) listed impaired water
- Main objective of SQMP Update: Assess Compliance with TMDL Requirements

WPDES Permit-Required Stormwater Program

Page 1 of 62
WPDES Permit No. WI-S050075-3



STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

**GENERAL PERMIT TO DISCHARGE UNDER THE WISCONSIN
POLLUTANT DISCHARGE ELIMINATION SYSTEM**
WPDES PERMIT NO. WI-S050075-3


In compliance with the provisions of ch. 283 Wis. Stats., and chs. NR 151 and 216, Wis. Adm. Code, owners and operators of municipal separate storm sewer systems are permitted to discharge storm water from all portions of the

MUNICIPAL SEPARATE STORM SEWER SYSTEM

owned or operated by the municipality to waters of the state in accordance with the conditions set forth in this permit.

With written authorization by the Department, this permit will be used to cover a municipal separate storm sewer system initially covered under a previous version of a municipal separate storm sewer system general permit. The **Start Date** of coverage under this permit is the date of the Department letter sent to the municipality authorizing coverage under this permit. The Department is required to charge an annual permit fee to owners and operators authorized to discharge under this permit in accordance with s. 283.33(9), Wis. Stats., and s. NR 216.08, Wis. Adm. Code.

State of Wisconsin Department of Natural Resources
For the Secretary


By _____

February 10, 2022
Date Permit Signed

Jill Schoen, Deputy Director
Bureau of Watershed Management
External Services Division

PERMIT EFFECTIVE DATE: May 1, 2019 EXPIRATION DATE: April 30, 2024
PERMIT MODIFICATION DATE: December 7, 2021; February 10, 2022, correction

Permit Condition
Public Education/Outreach
Public Involvement/Participation
Illicit Discharge Detection & Elimination
Construction Site Pollutant Control (Erosion Control)
Post-Construction Stormwater Management
Pollution Prevention-Municipal Operations
Stormwater Quality Management
Storm Sewer System Map
Annual Report
Rock River Stormwater Group Meetings

Updating Via
Task Order 24-02

WDNR Urban Nonpoint Source & Stormwater Grant

Project Cost	State Share (50%)	Local Share (50%)
\$85,000	\$42,500	\$42,500

Targeted Runoff Management (TRM) & Urban Nonpoint Source & Storm Water (UNPS&SW) Management Grant Programs



Who can apply for these grants?

Cities, villages, towns, counties, regional planning commissions, tribal governments, and special purpose districts such as lake, sewerage and sanitary districts are eligible to apply for (a) TRM grants in an agricultural or urban area, or (b) UNPS&SW grants to fund projects in urban areas.

Application Deadline

To be considered for funding, applications must be submitted electronically no later than April 15 (unless April 15 falls on a weekend). Projects may begin on January 1 of the following year. Both programs are reimbursement programs. Applicants pay 100% of project costs and then request reimbursement from the DNR for a portion of eligible costs.

Project Selection

Completed applications are scored based on factors such as fiscal accountability and cost-effectiveness, water quality, extent of pollutant control, extent of local support and likelihood of project success. The score will be increased if there is a comprehensive implementation or enforcement program in effect in the project area. Each grant type is competitive. The level of available funding will be determined in the mid summer-late fall through the state's biennial budget process. Highest priority in selecting projects under these grant programs will be given to projects that implement performance standards and prohibitions contained in ch. NR 151, Wis. Adm. Code, and/or that address waterbodies in a EPA-Approved TMDL (Total Maximum Daily Load), those that exceed groundwater enforcement standards.

Responsibilities of Grant Recipients

Successful applicants enter into a contractual agreement with the DNR. Grant recipients must comply with program conditions, provide the local portion of the project costs, install all best management practices (BMPs) constructed under these programs and maintain them for 10 years. If applicants are providing these grant funds to private landowners, a similar contractual agreement is required between the applicant and the landowner.

How do I get an application or request additional information?

dnr.wisconsin.gov/aid/TargetedRunoff.html
dnr.wisconsin.gov/aid/UrbanNonpoint.html

Joanna Griffin, Runoff Management Grants Program Coordinator

608-400-9519
Joanna.Griffin@Wisconsin.gov

Corinne Johnson, Nonpoint Source Program Grant Manager

608-720-0120
Corinne.Johnson@Wisconsin.gov

Regional Nonpoint Source Coordinators (dnr.wisconsin.gov/topic/Nonpoint/NPScontacts.html) are the local contacts and manage grants in specific areas. They are available to answer questions about the grant applications, process, and project implementation.

The DNR administers these competitive grant programs under chs. NR 153, 154 and 155, Wis. Adm. Code.

Targeted Runoff Management & Urban Nonpoint Source and Storm Water Management Grants



Current/**Updated** Stormwater Program

- Public Education/Outreach Involvement/Participation
- Illicit Discharge Detection and Elimination
- Construction Site Pollutant Control
- Postconstruction Stormwater Management
- Pollution Prevention – Municipal Operations
- **Stormwater Quality Management**
 - WinSLAMM Modeling and Alternatives Analysis
- **Storm Sewer System Map**
 - Update annually
- Annual Report –March 31, Annually

Rock River TMDL

Total Maximum Daily Loads for Total Phosphorus and Total Suspended Solids in the Rock River Basin

Columbia, Dane, Dodge, Fond du Lac, Green, Green Lake,
Jefferson, Rock, Walworth, Washington, and Waukesha
Counties, Wisconsin

July 2011

Prepared for:

U.S. Environmental Protection
Agency
Region 5
77 W. Jackson Blvd.
Chicago, IL 60604



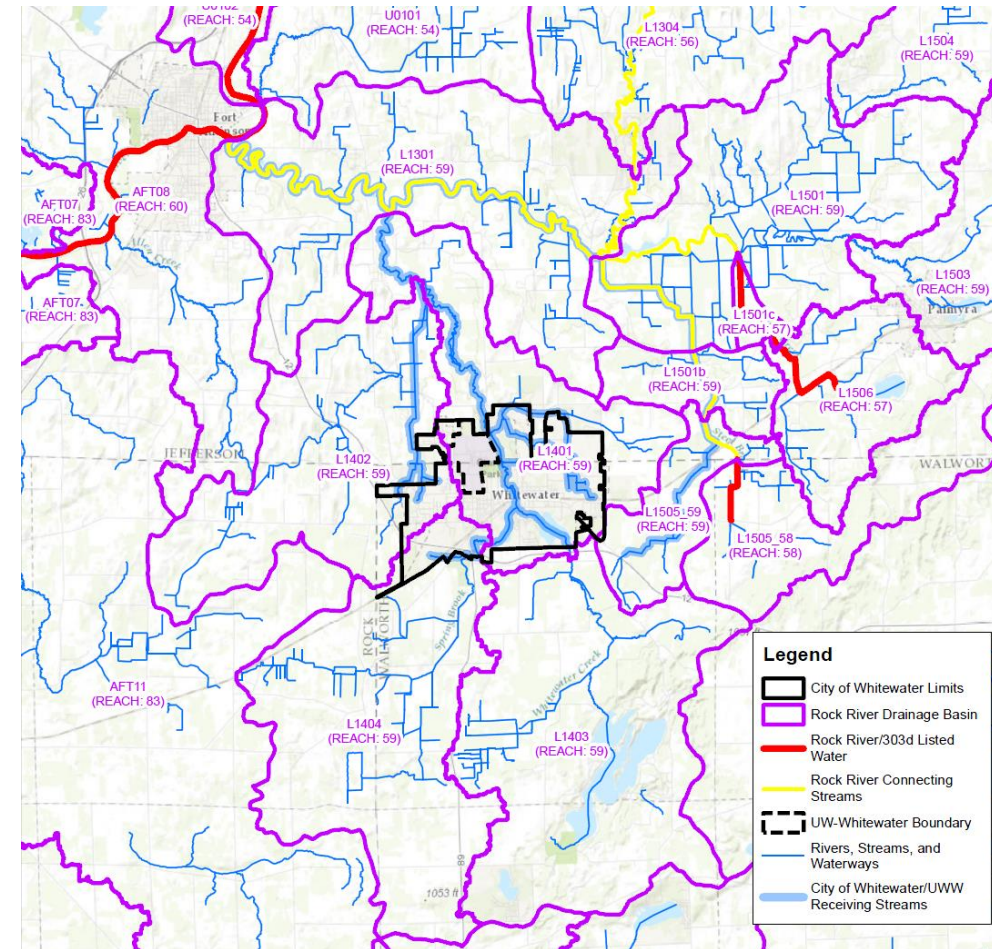
Wisconsin Department of
Natural Resources
101 S. Webster Street, PO Box 7921
Madison, Wisconsin 53707-7921



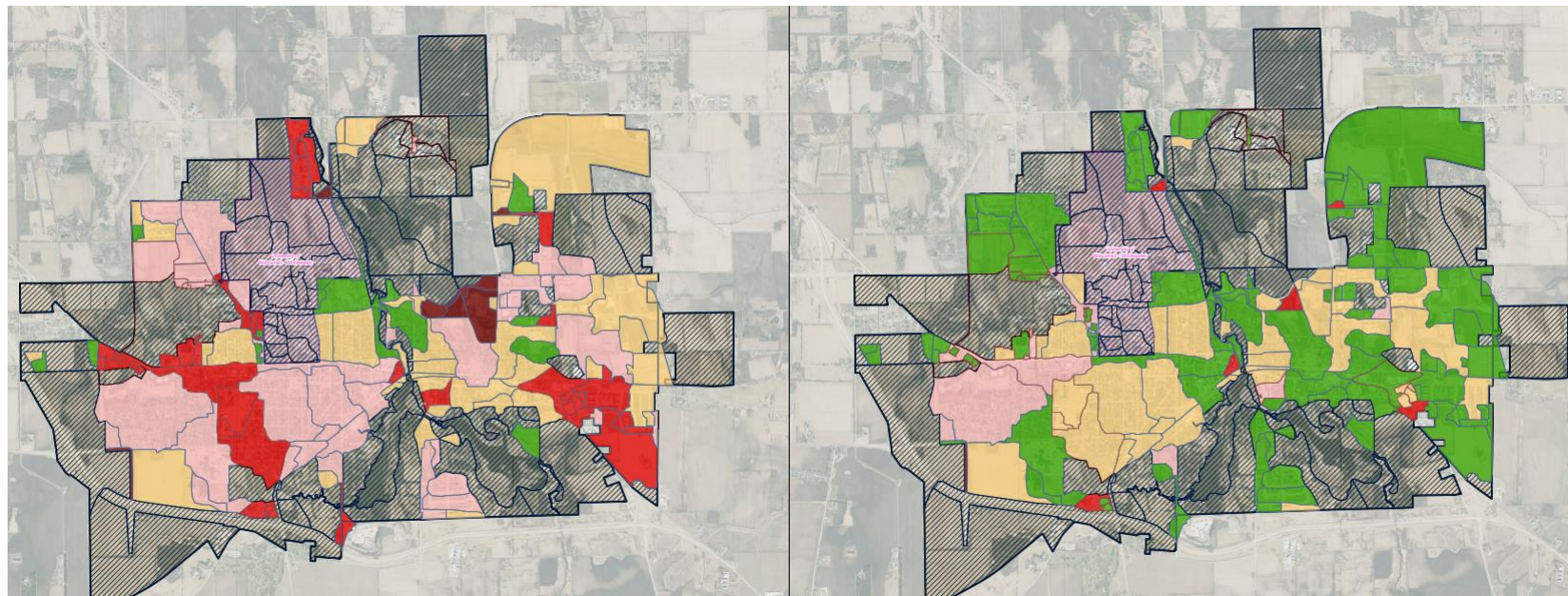
Prepared by:

THE
CADMUS
GROUP, INC.

Approved by EPA on Sept. 28, 2011



Stormwater Quality Modeling



Baseline / No Controls Condition

Existing Conditions / With Controls

Pollutant	MS4 Permit Required Reductions	Rock River TMDL Required Reductions (Reach 59)	MS4 Modeled Existing Conditions Reduction (%)	TMDL Pollutant Reduction Gap (%)	TMDL Pollutant Reduction Gap (lbs)
City of Whitewater (WinSLAMM Version 10.5.0)					
TSS	20%	49.0%	53.6%	0.0%	0.0 lbs
TP	NA	66.4%	45.5%	20.9%	374.5

TP Improvement Since 2017:

8.3% (was 37.7%)

68 lbs (was 442.5 lbs)

Stormwater Best Management Practices (BMPs) Implemented Since 2017

- Enhanced Street Sweeping Program
 - Vacuum Street Sweeper Purchase w/WDNR UNPS&S Grant (2021)
 - \$49,800 Grant
 - Street sweeping (once every 2 weeks) with vacuum street sweeper
- TP Leaf Collection Credit Analysis
 - (2020): 19.1 lbs TP
 - (2023): 47.1 lbs TP
 - Additional 28.0 lbs TP due to WDNR's updated 2022 Guidance
- New Development Pollutant Reduction
- Redevelopment Pollutant Reduction



BUREAU OF WATERSHED MANAGEMENT PROGRAM GUIDANCE

WATERSHED MANAGEMENT TEAM
Storm Water Runoff Management Program

Wisconsin Department of Natural Resources
101 S. Webster Street, P.O. Box 7921
Madison, WI 53707-7921

Municipal Phosphorus Reduction Credit for Leaf Management Programs

02-17-2022
EGAD Number: 3800-2022-01

This document is intended solely as guidance and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.

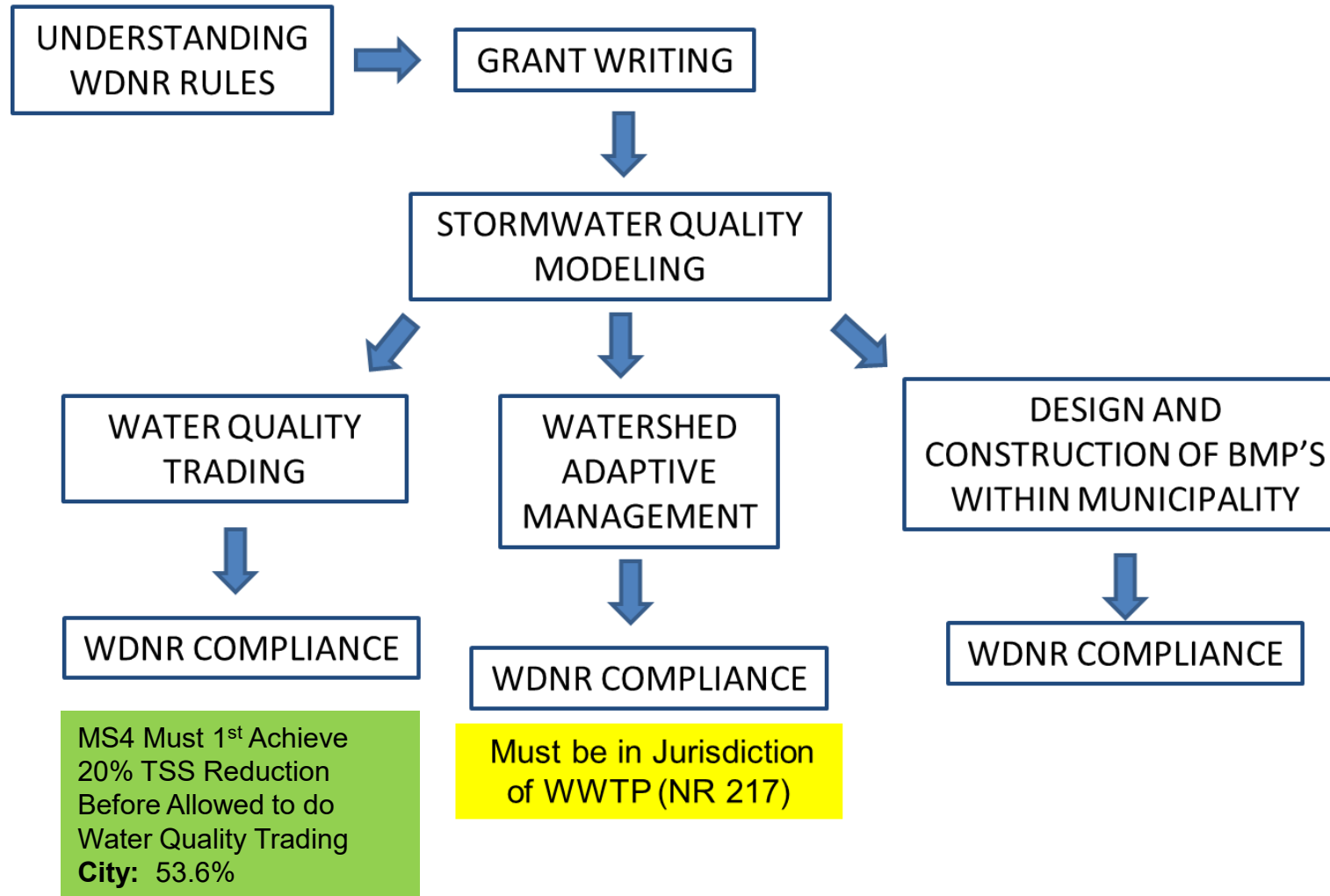
APPROVED:

A handwritten signature in cursive script, appearing to read 'Jill Schoen'.

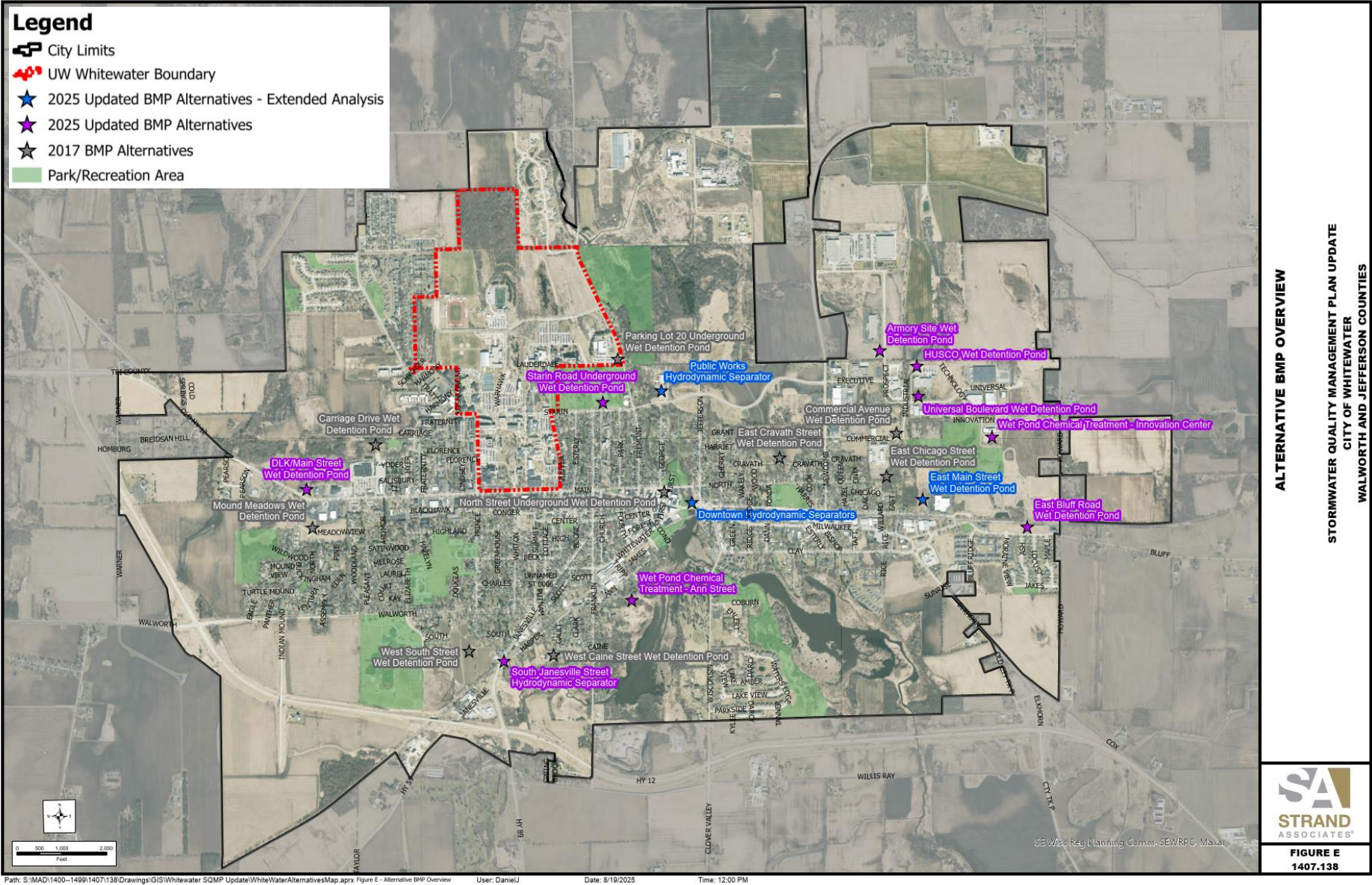
2/22/2022

Jill Schoen, Acting Director
Bureau of Watershed Management

Alternatives Analysis



New Stormwater Best Management Practices (BMPs) Evaluated in the City



Stormwater BMPs in the City (Alternative #2 Example)



Starin Road Underground Wet Pond (WP)

- Existing Grant
- 20.9 City/31.0 UWW lb TP
- \$3.63 million
- City \$1.46 million
- UWW \$2.17 million

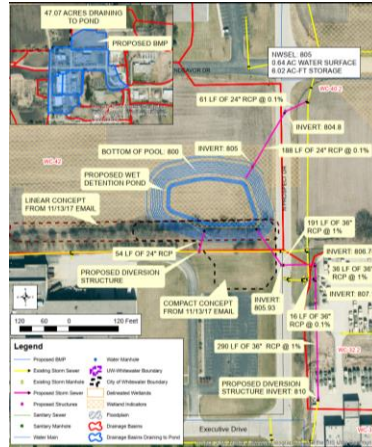


Redevelopment at 80% TSS Reduction

- 16.20 lbs over 20 years
- \$0

Agricultural Water Quality Trading (159 lbs TP)

- \$25,400 in 2025\$
- Begin implementation in 2035



Armory Wet Pond

- 12.3 lb TP
- \$669,500



West North Street HDS

- 3.9 lb TP
- \$261,500



DLK/Main Street WP

- 18.6 lb TP
- \$454,400



Public Works-HDS

- 0.4 lb TP
- \$59,700



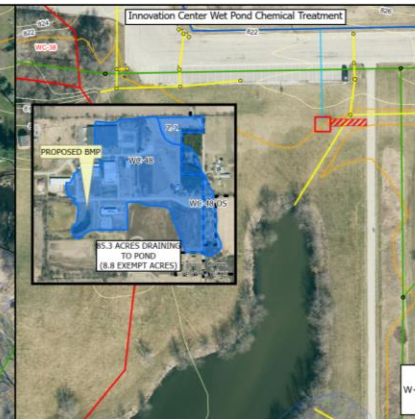
N. Universal Blvd WP

- 5.9 lb TP
- \$647,000



Ann Street Wet Pond Chemical Treatment

- 107.8 lb TP
- \$456,900



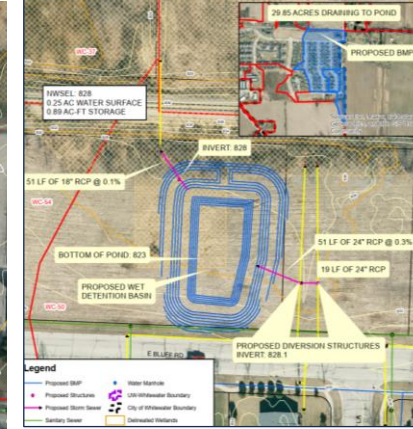
Innovation Center Wet Pond Chemical Treatment

- 13.6 lb TP
- \$450,000



E. Main Street Wet Pond

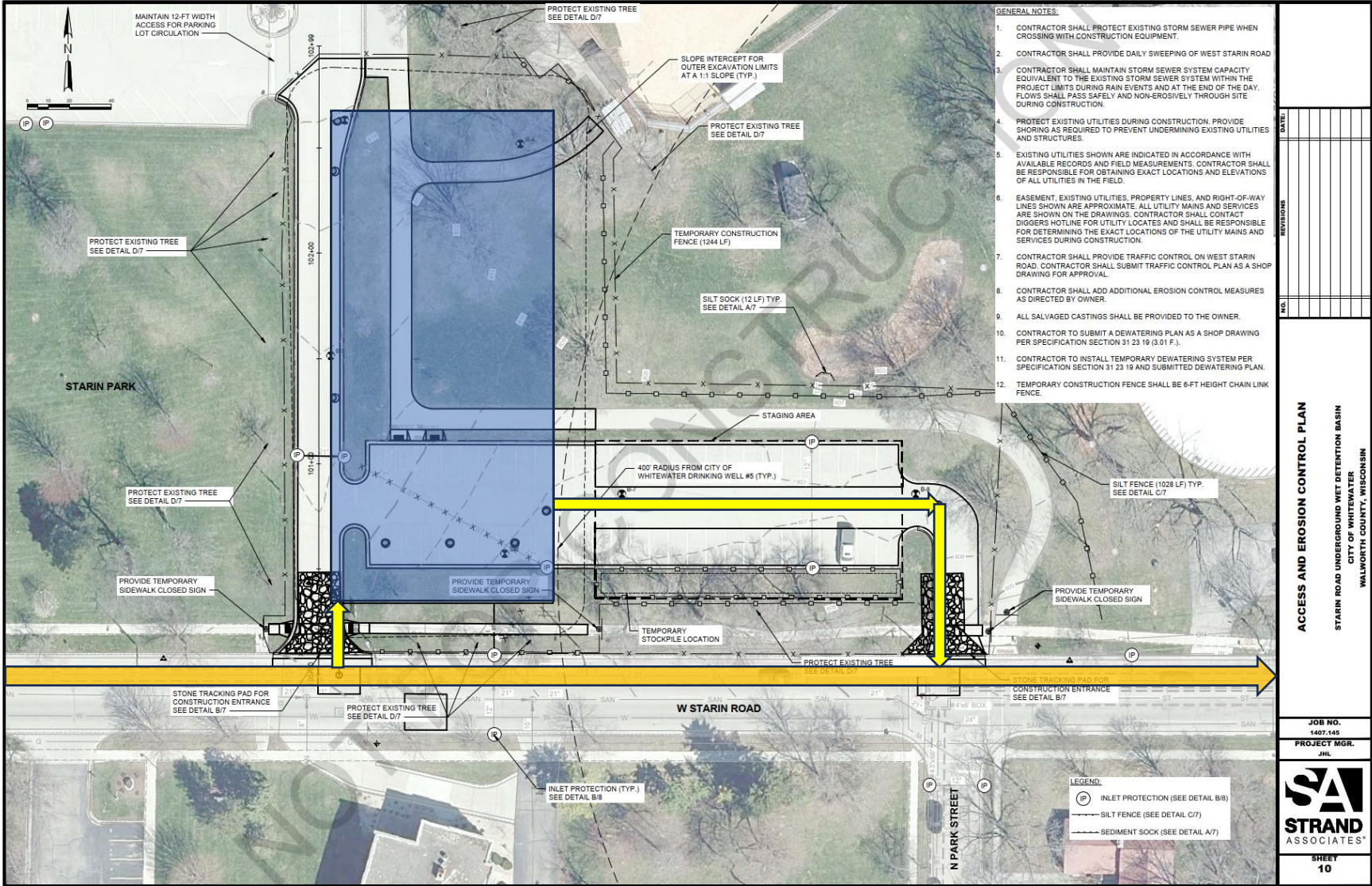
- 9.6 lb TP
- \$792,300



East Bluff Rd Wet Pond

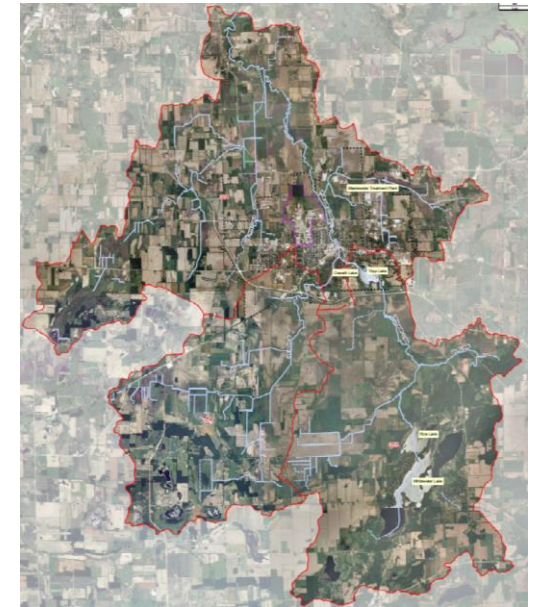
- 6.6 lb TP
- \$401,400

Starin Road Underground Wet Detention Basin

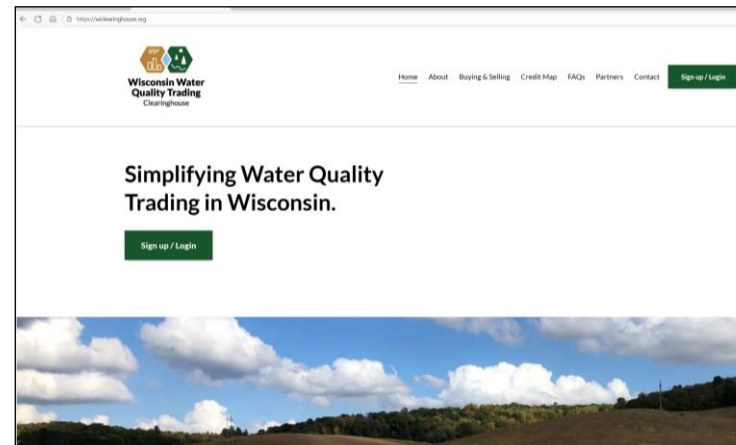


Water Quality Trading

- Agricultural Lands
 - Approximately \$160/lb TP
 - Water Quality Trading Clearinghouse
- Other MS4s
 - City of Fort Atkinson
- WWTFs
 - City of Whitewater
- Private Point Dischargers
 - LS Power




Map Showing Agricultural Lands Surrounding Whitewater



Water Quality Trading Clearinghouse Website

Watershed Adaptive Management

- Point and nonpoint sources work collaboratively in protecting and restoring local water resources.
- Requires City WWTF to initiate.
- Involves agricultural BMPs like water quality trading.
- WWTF gets less restrictive interim phosphorus limits while pursuing WAM.
- WAM can extend over a 15-year timeframe (up to three 5-year permit terms).
- **Benefits**
 - Improved lake and stream water quality with compliance at lower overall cost, typically in the \$110 to \$160/lb TP range.
 - Significantly delaying or eliminating effective date of stringent (0.075 mg/l 6-month average) effluent phosphorus limit at City's WWTF.
- **Difference Between WQT and WAM**
 - WQT requires trade ratios, WAM doesn't
 - WQT requires credit thresholds, WAM doesn't
 - WAM requires in-stream water quality monitoring, WQT doesn't
 - WAM must be initiated by WWTF, WQT doesn't
- **City of Whitewater WWTF**
 - Multi-Discharger Variance
 - **City has chosen as compliance option for WWTF** 
 - Buy in at a cost of \$50/lb TP
 - Extends compliance up to 2 (with potential for 3) 5-year permit terms.



Yahara WINS Buy-In: \$50-\$60/lb TP for MS4s
Madison Met.: Administers Program
Dane County: Broker for Ag BMPs with Farmers
USGS: Provides Water Quality Monitoring

Alternatives Analysis (Table 5.04-1)

Component	BMP	Figure Number	Proposed BMP Type	Basin	Serves UWW and City Lands	Property Acquisition	Wetland Delineation	Soil Contamination On-Site	2025 BMP Cost	BMP Cost (20-Year NPW)	20-Year NPW Cost-Effectiveness (\$/lb TP)	Alternative No. 1 (lb TP)	Alternative No. 2 (lb TP)	Alternative No. 3 (lb TP)
1	Redevelopment—80 percent (20 years of redevelopment)	N/A	TBD									16.2	16.2	16.2
2	DLK/Main Street	E-1	Wet Detention Basin	GC-1		Yes	Yes		\$454,375	\$502,894	\$1,350	18.6	18.6	18.6
3	Starin Road-Starin Park	E-2	Underground Wet Detention Basin	Multiple	Yes				\$1,400,795	\$1,558,619	\$3,724	20.9	20.9	20.9
4	Public Works Yard	E-3	Hydrodynamic Separator	WC-7					\$59,695	\$152,884	\$21,841	0.35	0.35	0.35
5	Armory Site-Business Park	E-4	Wet Detention Basin	WC-42			Yes		\$669,500	\$882,752	\$3,597	12.3	12.3	12.3
6	Husco International	E-5	Dry to Wet Pond Conversion	WC-39		Yes	Yes		\$610,360	\$795,899	\$11,762	3.4		
7	North Universal Boulevard (Husco)	E-6	Wet Detention Basin	WC-38		Yes			\$647,044	\$706,179	\$6,010	5.9	5.9	
8	East Main Street	E-7	Wet Detention Basin	WC-55, TL-17, and WC-66		Yes	Yes		\$792,261	\$973,749	\$5,069	9.6	9.6	
9	East Milwaukee Street	E-8	Hydrodynamic Separator	CL-2, CL-8			Yes		\$106,445	\$162,914	\$114,845	0.07		
10	East Main Street	E-8	Hydrodynamic Separator	WC-4, CL-8					\$189,625	\$242,512	\$17,472	0.69		
11	East North Street	E-8	Hydrodynamic Separator	WC-3					\$110,695	\$166,981	\$15,641	0.53		
12	West North Street	E-8	Hydrodynamic Separator	WC-2 CITY, WC-2 UW, WC-61	Yes				\$261,500	\$311,292	\$3,971	3.92	3.92	3.92
13	West Main Street	E-8	Hydrodynamic Separator	WC-9					\$110,195	\$166,503	\$16,725	0.50		
14	Cravath Park	E-8	Hydrodynamic Separator	CL-7					\$64,320	\$122,603	\$29,612	0.21		
15	South Wisconsin Street	E-8	Hydrodynamic Separator	CL-1					\$67,445	\$125,593	\$15,845	0.40		
16	South Janesville Street Hydrodynamic Separator	E-9	Hydrodynamic Separator	SB-2					\$110,320	\$166,622	\$12,777	0.65		
17	East Bluff Road	E-10	Wet Detention Pond	WC-50, WC-51.2, and WC-51.3			Yes		\$401,375	\$478,654	\$3,649	6.56	6.56	
18	Ann Street Wet Pond Chemical Treatment	E-11	Wet Detention Pond Chemical Treatment	CL-4.1, CL-4.2, CL-4.3, CL-4.4, CL-4.5					\$456,900	\$711,565	\$330	107.8	107.8	107.8
19	Innovation Center Wet Pond Chemical Treatment	E-11	Wet Detention Pond Chemical Treatment	WC-48, WC-48OS, Z-2					\$450,000	\$618,083	\$2,276	13.6	13.6	13.6
20	1 Acre of Permeable Pavement Serving 5 Acres of Existing Pavement (5:1 Run-On Ratio)								\$1,161,993	\$1,187,825	\$12,911	4.60		
21	Agricultural Water Quality Trading (Interim Credits)—147.8 lb								\$23,650	\$473,002	\$160	147.81		
22	Agricultural Water Quality Trading (Interim Credits)—158.8 lb								\$25,416	\$508,315	\$160		158.85	
23	Agricultural Water Quality Trading (Interim Credits)—180.9 lb								\$28,942	\$578,833	\$160			180.89
Total TP Removed												374.50	374.50	374.50
Total 2025 Cost												\$8,148,495	\$5,618,861	\$3,781,707
Total 20-Year NPW Cost												\$10,507,127	\$8,200,886	\$5,316,923
20-Year NPW Cost Per Pound TP Captured												\$1,403	\$1,095	\$710
TP Reduction Gap												374.50	374.50	374.50

Notes:

Alternatives Analysis Summary

Alternative #	Total 20-Yr NPW	\$/lb TP Removed (20-Yr NPW)
1 – 17 BMPs + WQT	\$10.5 million	\$1,403
2 – 8 BMPs + WQT	\$8.2 million	\$1,095
3 - 5 BMPs + WQT	\$5.3 million	\$710

Conclusions and Recommendations

- Continue to implement all of the City's stormwater programs to maintain compliance with its WPDES permit.
- Proceed with implementation of Alternative No. 2 for TMDL compliance as shown in Table 6.03-1.
 - Consider the Water Quality Trading Clearinghouse in pursuit of water quality trading (circa 2035).
- Budget for grant application preparation to help fund design and construction of stormwater BMPs.
 - Per Table 6.03-1, consider a grant application in 2028 to fund design in 2029 and construction in 2030.
- Budget for design and construction of stormwater BMPs and consider stormwater utility rate modifications.
- Update the City's stormwater system maps on an annual basis.
- WinSLAMM Modeling: Update existing conditions modeling approximately every 5 to 7 years to account for BMPs since 2025.
- Discretionarily pursue streambank restoration projects with grant funding through WDNR's Targeted Runoff Management (TRM) grant program.

Implementation Plan

Table 6.03-1 Implementation Plan (lb TP) for Alternative No. 2

	Reach	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Agricultural WQT	59											9.9	19.9	29.8	39.7	49.6	59.6	69.5	79.4	89.3	99.3	109.2	119.1	129.0	139.0	148.9	158.8
Starin Park Underground Wet Detention Basin	59		20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
Armory Site-Business Park Wet Detention Basin	59						12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
West North Street HDS	59										3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
DLK/Main Street Wet Detention Basin	59												18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
Public Works Yard HDS	59														0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Ann Street Wet Detention Basin Chemical Treatment	59																107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8
Innovation Center Wet Detention Basin Chemical Treatment	59																				13.6	13.6	13.6	13.6	13.6	13.6	13.6
North Universal Boulevard Wet Detention Basin	59																						5.9	5.9	5.9	5.9	5.9
East Main Street Wet Detention Basin	59																								9.6	9.6	9.6
East Bluff Road	59																										6.6
Redevelopment at 80 Percent TSS Reduction	59	0.65	0.65	1.30	1.94	2.59	3.24	3.89	4.54	5.18	5.83	6.48	7.13	7.78	8.42	9.07	9.72	10.37	11.02	11.66	12.31	12.96	13.61	14.26	14.90	15.55	16.20
Total		0.6	21.6	22.2	22.9	23.5	36.4	37.1	37.7	38.4	43.0	53.5	82.7	93.3	104.2	114.8	233.1	243.7	254.3	264.8	289.0	299.6	316.0	326.6	346.8	357.4	374.5
Cumulative Citywide Percent TP Reduction (%)		45.6	46.8	46.8	46.8	46.9	47.6	47.6	47.7	47.7	47.9	48.5	50.2	50.8	51.4	52.0	58.6	59.1	59.7	60.3	61.7	62.3	63.2	63.8	64.9	65.5	66.4
Percent Closure of TP Reduction Gap (%)		0.2	5.8	5.9	6.1	6.3	9.7	9.9	10.1	10.2	11.5	14.3	22.1	24.9	27.8	30.7	62.2	65.1	67.9	70.7	77.2	80.0	84.4	87.2	92.6	95.4	100.0
Permit Required (10% of TP Reduction Gap by 2030)							37.45																				

Note: HDS=hydrodynamic separator

Project Funding

Grant Program	Application Deadline	Agency / Local Share	Possible Projects and Details
WDNR-Urban Nonpoint Source and Stormwater Construction Grant (UNPS-Construction)	April 15, 2026, 2028, 2030, etc. (ie: every other year)	<ul style="list-style-type: none"> -Design & Construction: 50% / 50%, up to \$150,000 -Property Acquisition: 50% up to \$50,000 -Potential additional funding through EPA's Sewer Overflow and Stormwater Reuse Municipal Grants Program (OSG) for projects meeting EPA's criteria under green infrastructure, rural communities, and financially distressed communities. OSG WI Allocation: \$1.2 million/2022 and \$728,000/2024. -Potential funding through Clean Water Fund low interest loans and principal forgiveness (see below). 	<ul style="list-style-type: none"> -Hydrodynamic separators, traditional or underground wet detention basins, dry to wet pond conversion, bioretention basins, regenerative stormwater conveyance, etc. -50% of the Incremental Cost Between Purchase of a Mechanical and High-Efficiency Street Sweeper Note: May fund design retroactively but no reimbursement until after BMP constructed.
WDNR-Clean Water Fund Loan Program (CWFLP)	October 31, 2026 (annually): Intent to Apply (ITA) and Priority Evaluation and Ranking Formula (PERF) September 30, 2027 (annually): Submit Financial Assistance Application	<ul style="list-style-type: none"> -Subsidized Loan (55% of 4.5% market rate) = 2.475% (20-Year) -10% to 65% Principal Forgiveness-PF (comparable to a grant) for eligible communities based on Disadvantaged Community Status/Affordability Score. -Additional 10% Principal Forgiveness for Green Tier Legacy Communities (GTLC) -Max. \$2.1 million in Principal Forgiveness per community -Whitewater qualifies for 40% PF (subject to change yearly). 	<ul style="list-style-type: none"> -Lead to or provide treatment to control discharged water quality such as: bioretention basins/swales, green roofs/streets/walls, infiltration basins, permeable pavement, rainwater harvesting, collection, storage, management, and distribution systems, real-time control systems for harvested rainwater. -Could be used in conjunction with a WDNR UNPS Construction Grant. -For 2028 construction, submit ITA/PERF in 2026 and design in 2027.
Targeted Runoff Management (TRM) Grant: Small-scale TMDL Projects	April 15, 2026, 2028, 2030, etc. (ie: every other year)	Design and Construction: 70% / 30% up to \$225,000	- Streambank restoration , cropland protection, livestock waste and process wastewater management practices.

Questions and Answers





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