Public Works Committee Meeting

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

Tuesday, November 11, 2025 - 5:15 PM

AGENDA

Citizens are welcome (and encouraged) to join our webinar via computer, smart phone, or telephone. Citizen participation is welcome during topic discussion periods.

Please click the link below to join the webinar:

https://us06web.zoom.us/j/81418993720?pwd=R2y1B13qqPZabd6g8sNm4wUlAR7FSg.1

Telephone: +1 (312) 626-6799 US
Webinar ID: 814 1899 3720
Passcode: 113075

Please note that although every effort will be made to provide for virtual participation, unforeseen technical difficulties may prevent this, in which case the meeting may still proceed as long as there is a quorum. Should you wish to make a comment in this situation, you are welcome to call this number: (262) 473-0107.

CALL TO ORDER

ROLL CALL

APPROVAL OF AGENDA
A committee member can choose to remove an item from the agenda or rearrange its order; however, introducing new items to the agenda is not allowed. Any proposed changes require a motion, a second, and approval from the Committee to be implemented. The agenda shall be approved at each meeting even if no changes are being made at that meeting.

APPROVAL OF MINUTES

1. Approval of minutes from October 14, 2025

HEARING OF CITIZEN COMMENTS
No formal Committee action will be taken during this meeting although issues raised may become a part of a future agenda. Participants are allotted a three-minute speaking period. Specific items listed on the agenda may not be discussed at this time; however, citizens are invited to speak to those specific issues at the time the Committee discusses that particular item.

To make a comment during this period, or during any agenda item: On a computer or handheld device, locate the controls on your computer to raise your hand. You may need to move your mouse to see these controls. On a traditional telephone, dial *6 to unmute your phone and dial *9 to raise your hand.

NEW BUSINESS

2. Discussion and Possible Action regarding Addendum 1 for City of Whitewater 2017 Water System Study – Water Supply Service Area Plan.

3. Discussion and Possible Action regarding street parking restrictions on Elizabeth Street near the Middle School.

4. Discussion and Possible Action regarding the award of Contract 3-2025, Wastewater Treatment Plant Return Activated Sludge Pump Addition.

5. Discussion and Possible Action regarding granting an easement from Parcel /OT 00037 to 328 W. Main Street (Hamilton House) for a handicap ramp.

6. Discussion and Possible Action regarding hiring a contractor to remove blockage and debris from Whitewater Creek near 220 and 228 N. George Street.

FUTURE AGENDA ITEMS

ADJOURNMENT

A quorum of the Common Council may be present. This notice is given to inform the public that no formal action will be taken at this meeting.

Anyone requiring special arrangements is asked to call the Office of the City Manager / City Clerk (262-473-0102) at least 72 hours prior to the meeting.

City of WHITEWATER

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%.

	2025	2026 (3%)	Increase
Garbage	$9.47	$9.75	$0.28
Recycle	$4.37	$4.50	$0.13
Bulk	$2.11	$2.17	$0.06
	$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 toter 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, CBS^2, 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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Excellence in Engineering[SM]

Since 1946

Strand Associates, Inc.® (SA)

Stormwater Quality Management Plan Update

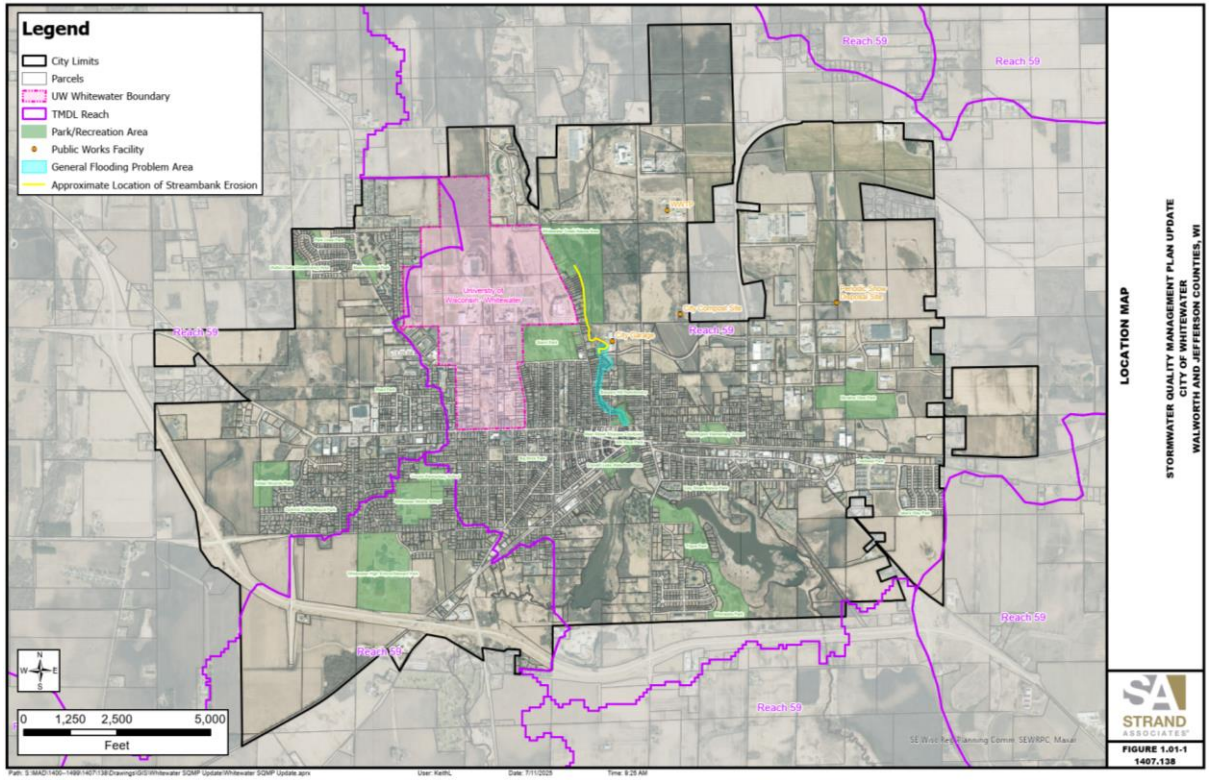
City of Whitewater, WI

October 14, 2025

City of WHITEWATER

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

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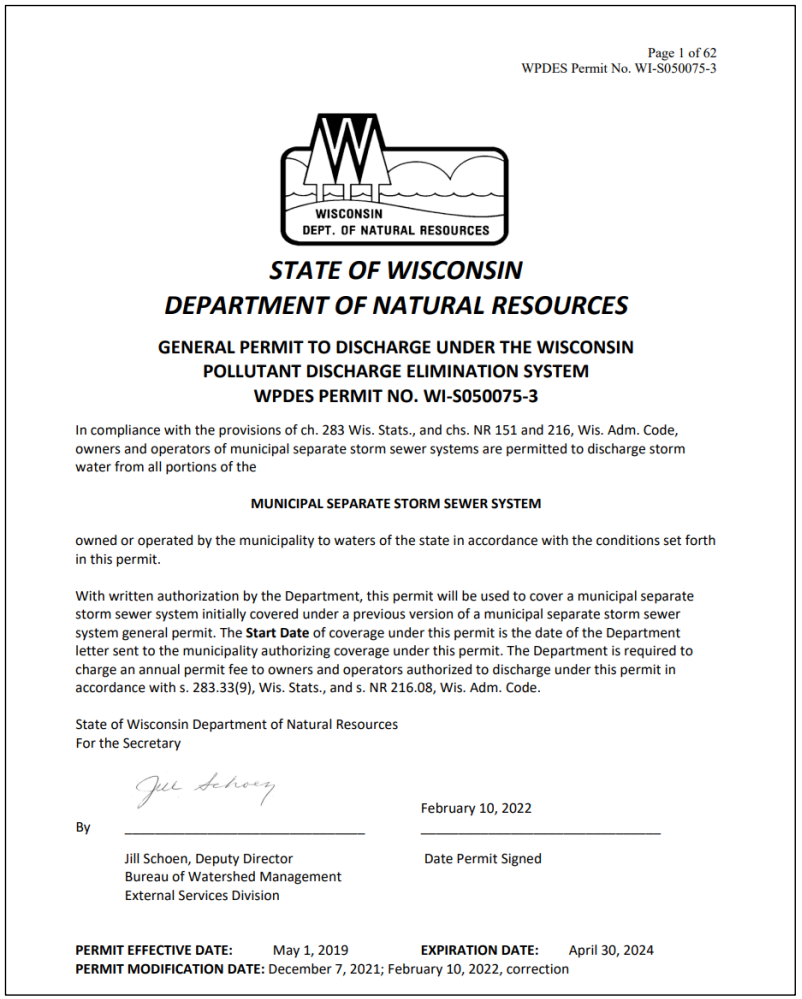
WPDES Permit-Required Stormwater Program



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

WISCONSIN
DEPT. OF NATURAL RESOURCES

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

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

Date Permit Signed

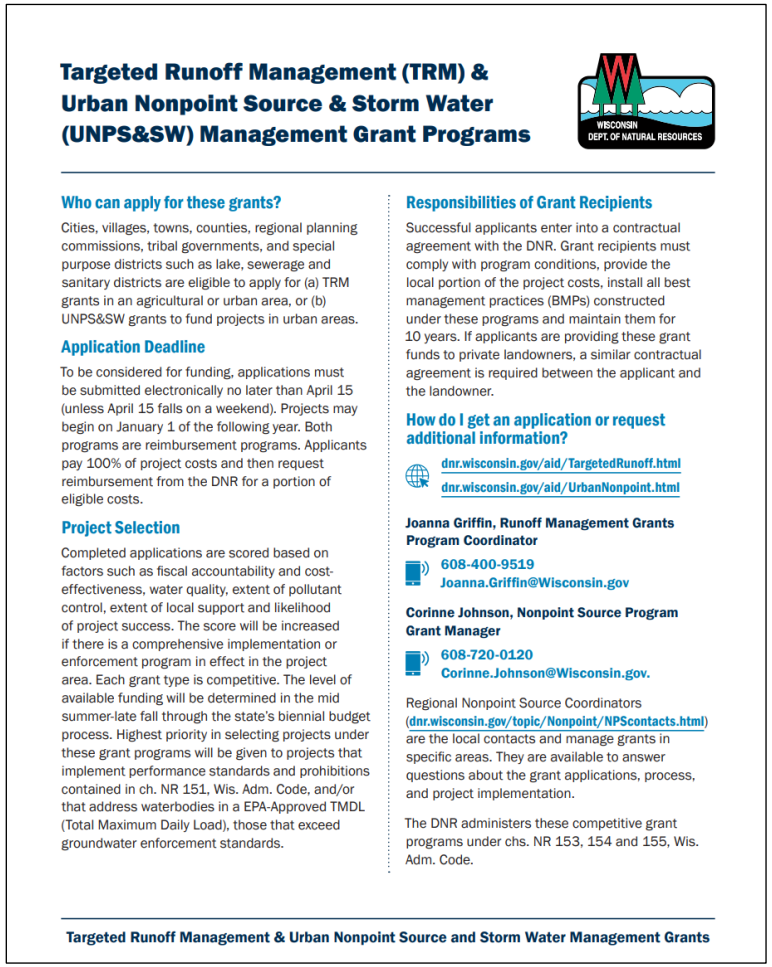
PERMIT EFFECTIVE DATE: May 1, 2019 **EXPIRATION DATE:** April 30, 2024
PERMIT MODIFICATION DATE: December 7, 2021; February 10, 2022, correction

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

WISCONSIN DEPT. OF NATURAL RESOURCES

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

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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**

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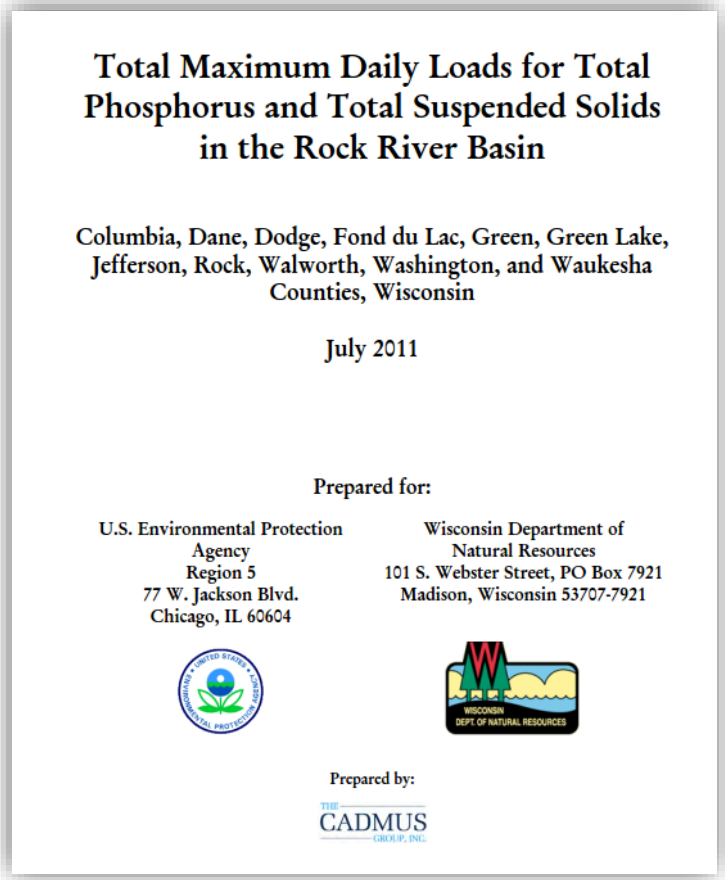
Rock River TMDL



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:

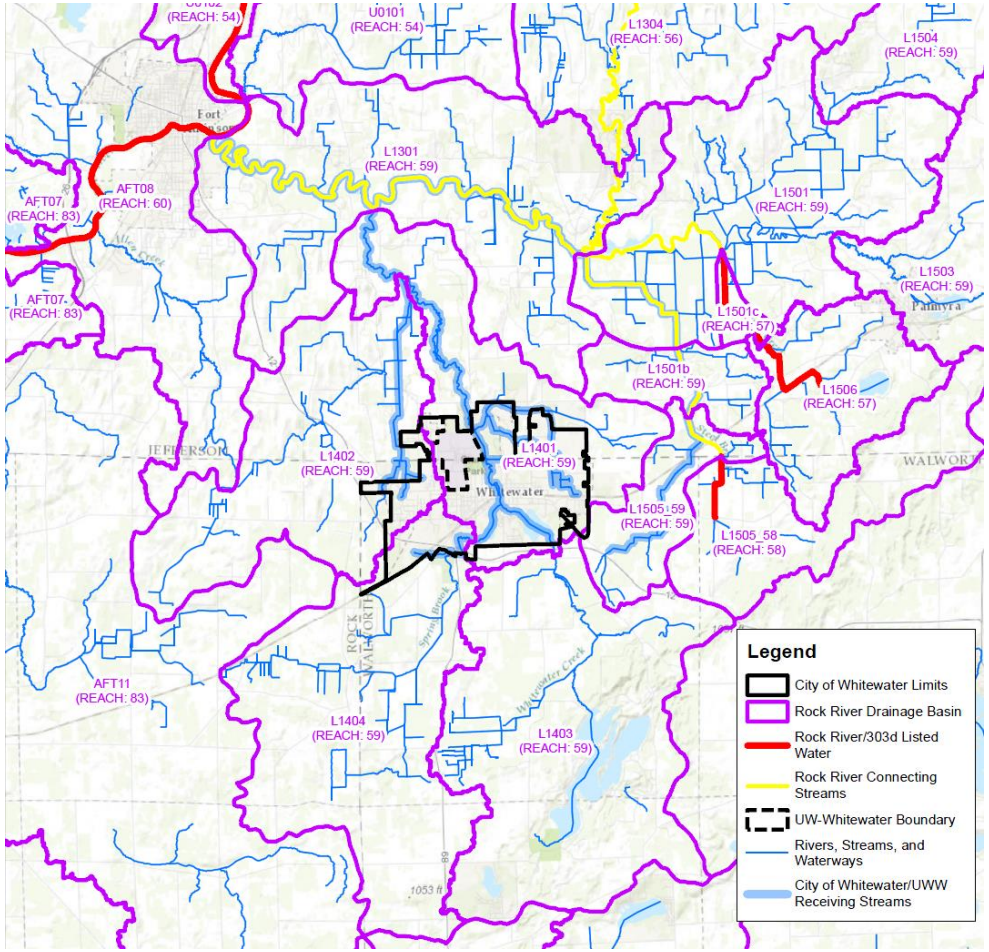
U.S. Environmental Protection Agency
Region 5
77 W. Jackson Blvd.
Chicago, IL 60604

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

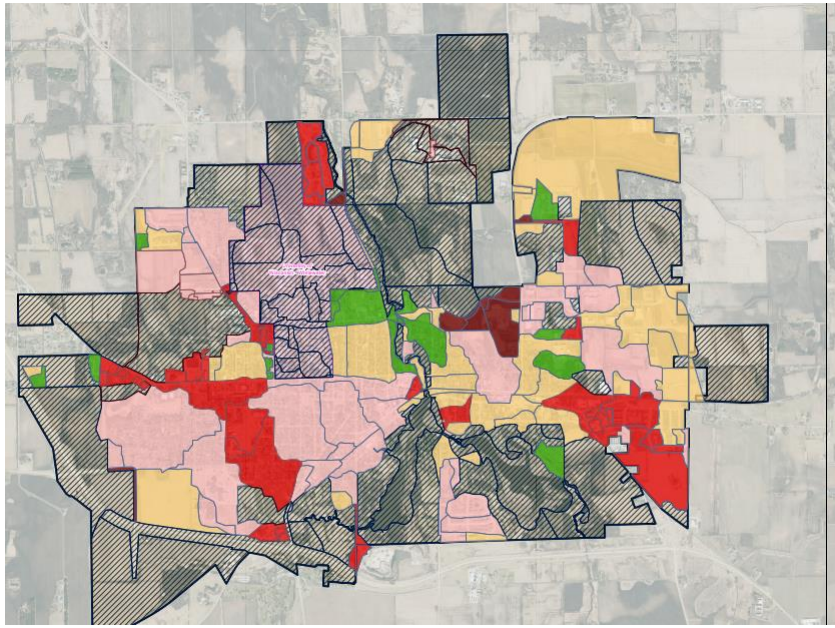
Prepared by:

THE CADMUS GROUP, INC.

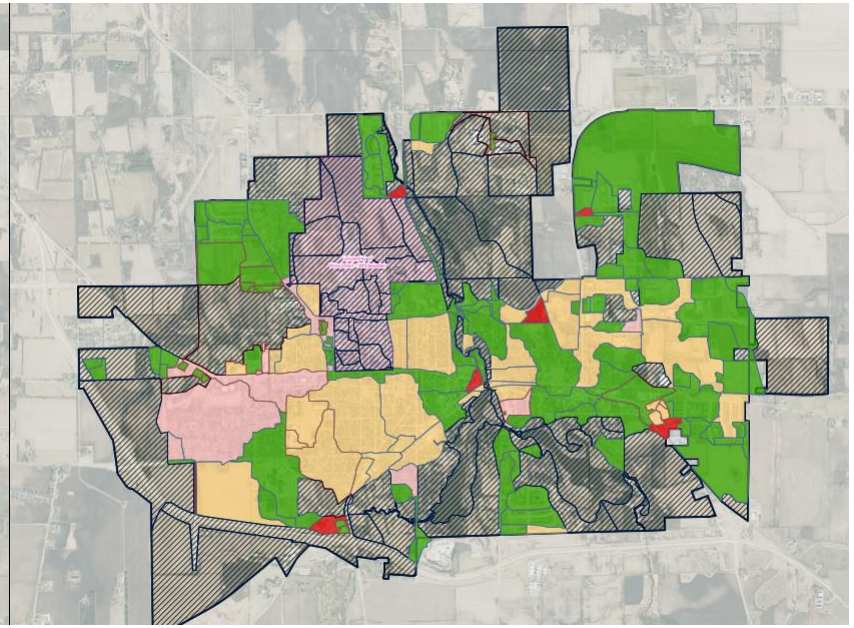
Approved by EPA on Sept. 28, 2011



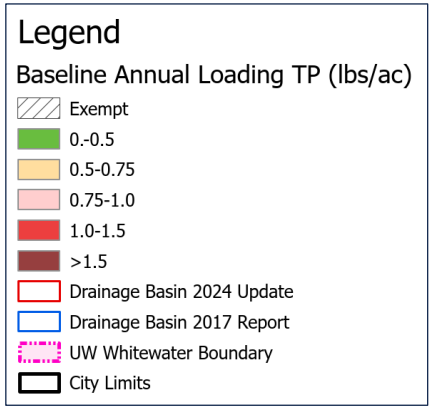
Stormwater Quality Modeling



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)**

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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

WISCONSIN DEPT. OF NATURAL RESOURCES

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

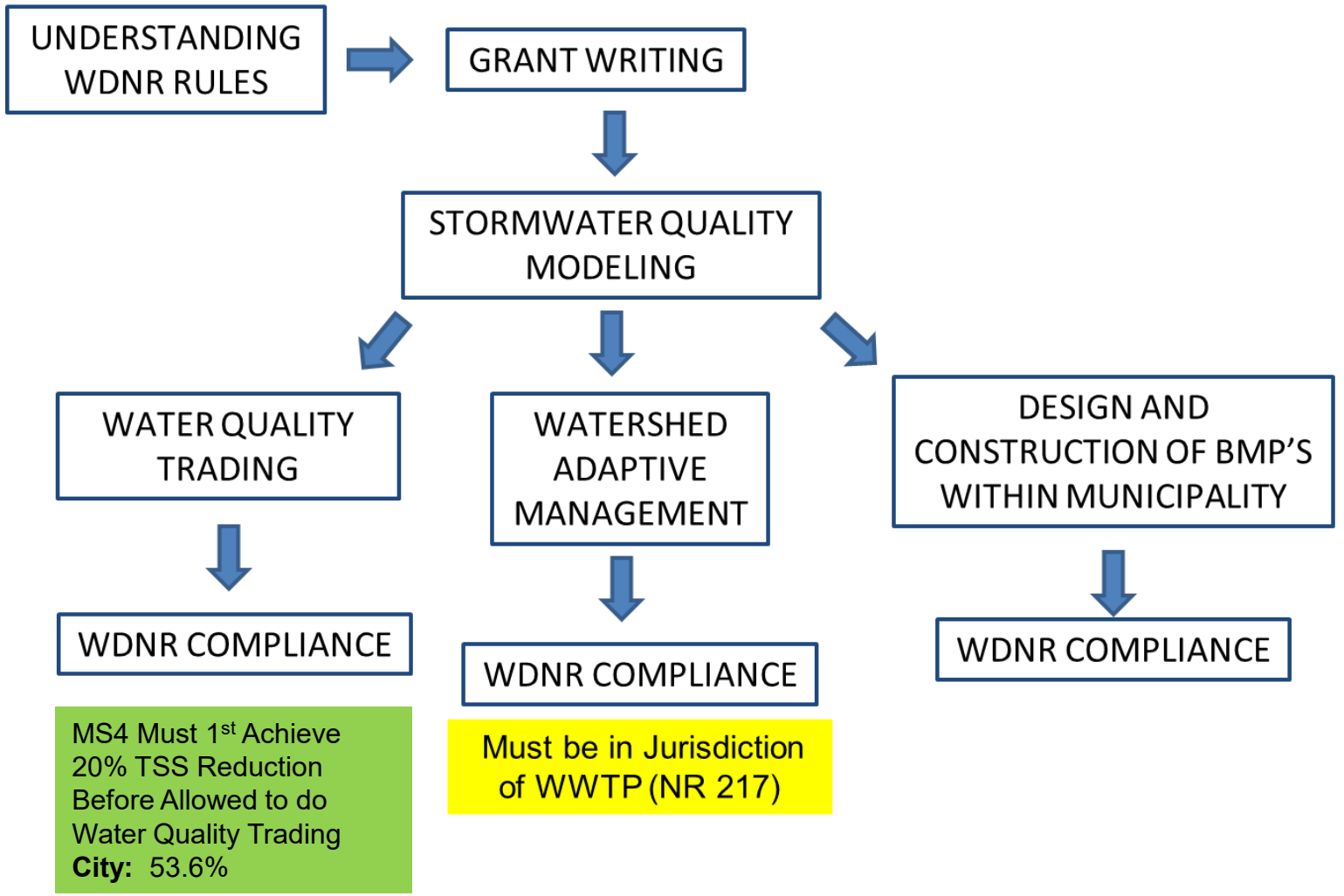
This document is intended solely as guidance and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by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

APPROVED:

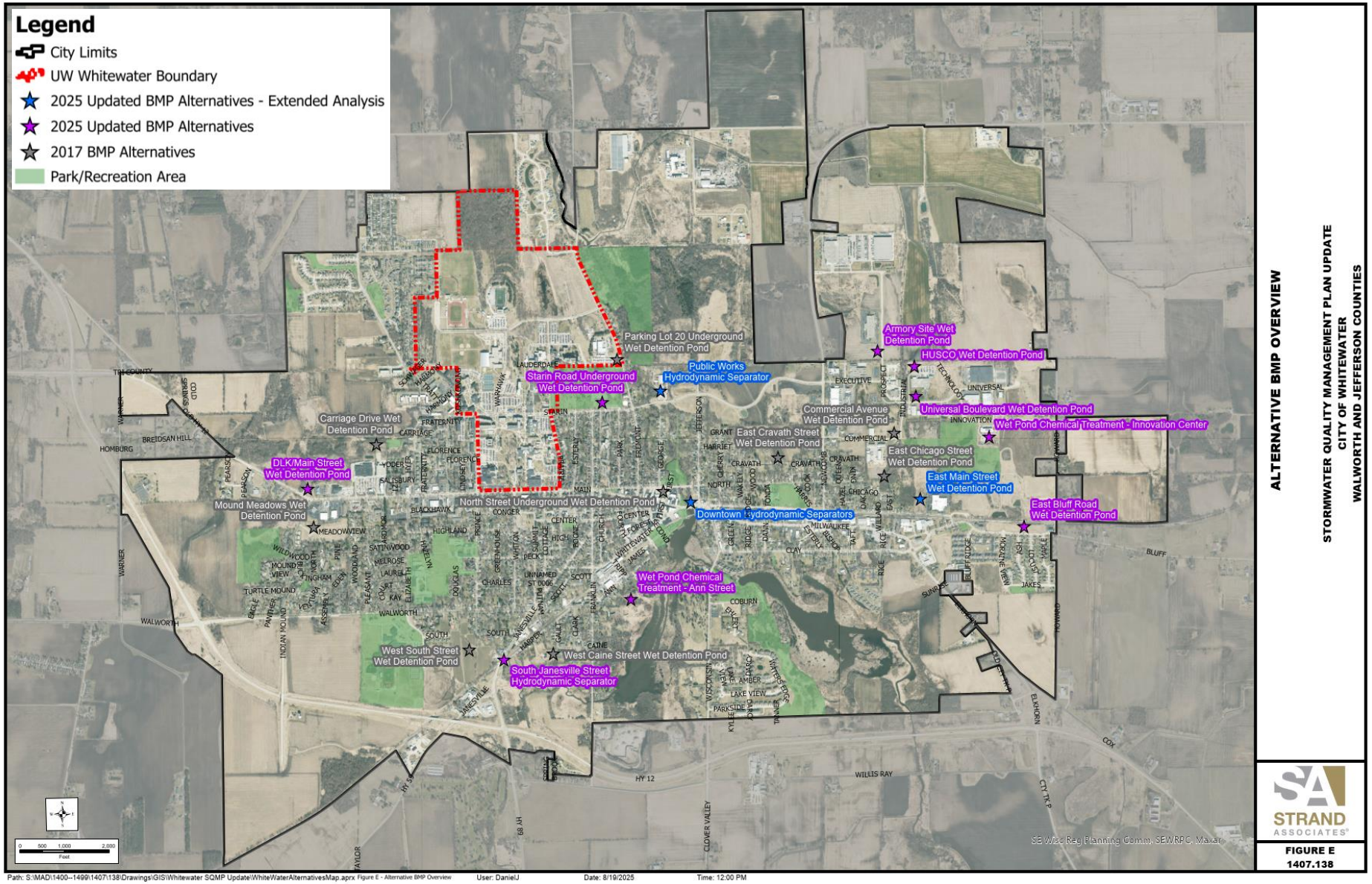
Jill Schoen 2/22/2022

Jill Schoen, Acting Director — Date
Bureau of Watershed Management

Alternatives Analysis

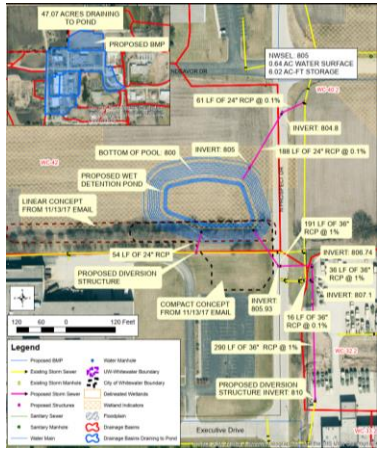


New Stormwater Best Management Practices (BMPs) Evaluated in the City



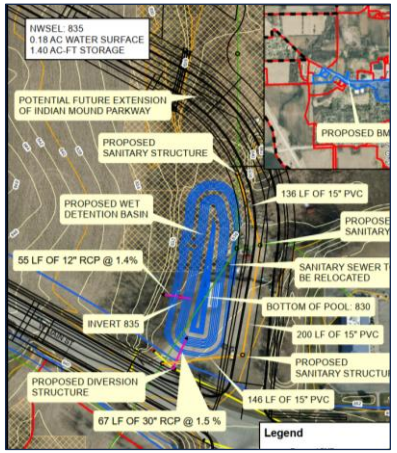
Stormwater BMPs in the City (Alternative #2 Example)

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



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

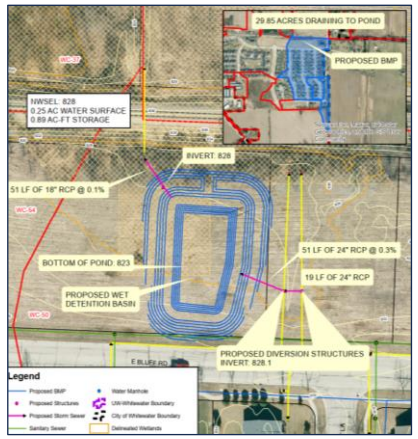
Redevelopment at 80% TSS Reduction
- 16.20 lbs over 20 years
- $0

Agricultural Water Quality Trading (159 lbs TP)
- $25,400 in 2025$
- Begin implementation in 2035

Ann Street Wet Pond Chemical Treatment
- 107.8 lb TP
- $456,900

Innovation Center Wet Pond Chemical Treatment
- 13.6 lb TP
- $450,000

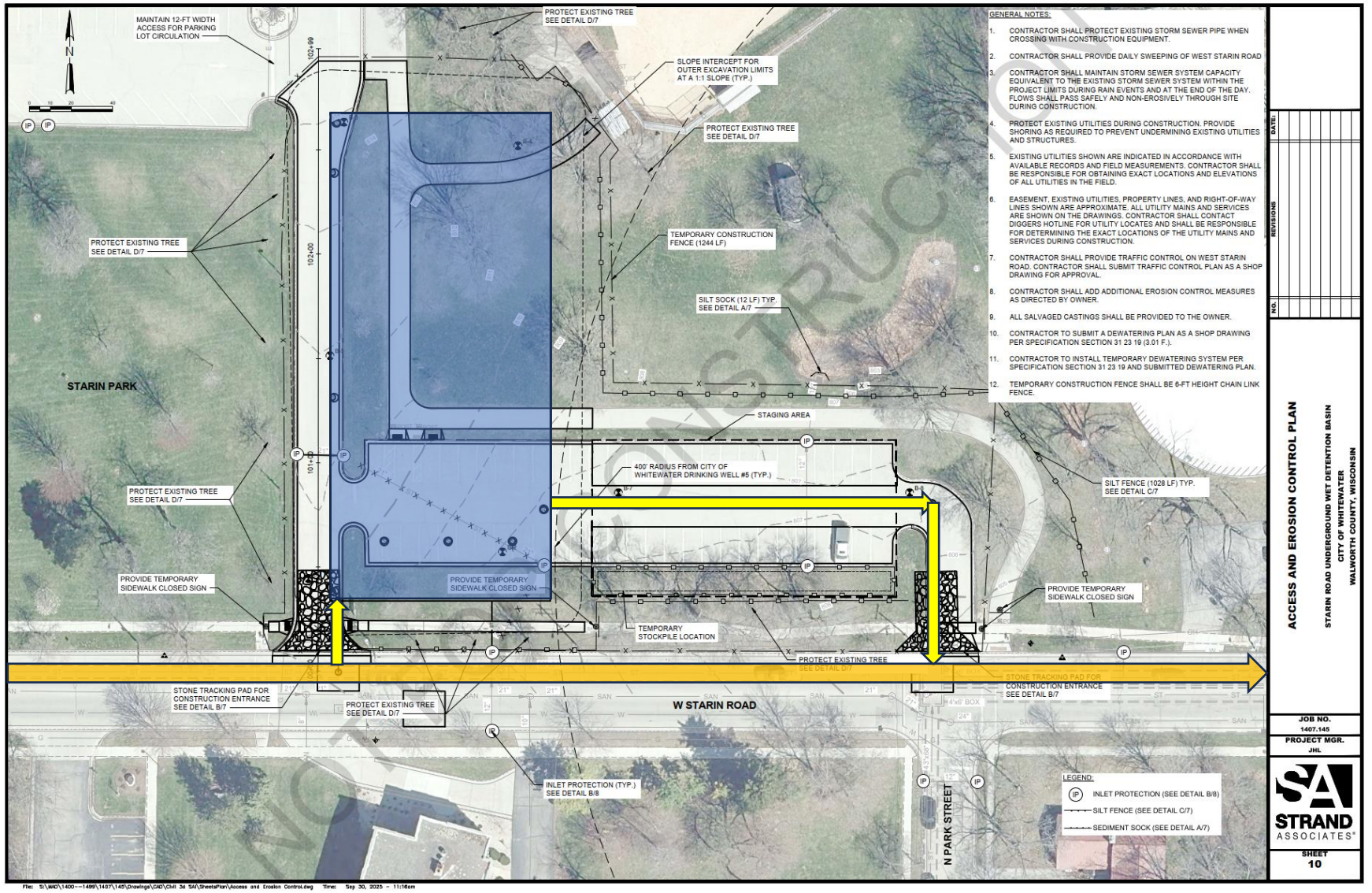
E. Main Street Wet Pond
- 9.6 lb TP
- $792,300



East Bluff Rd Wet Pond
- 6.6 lb TP
- $401,400

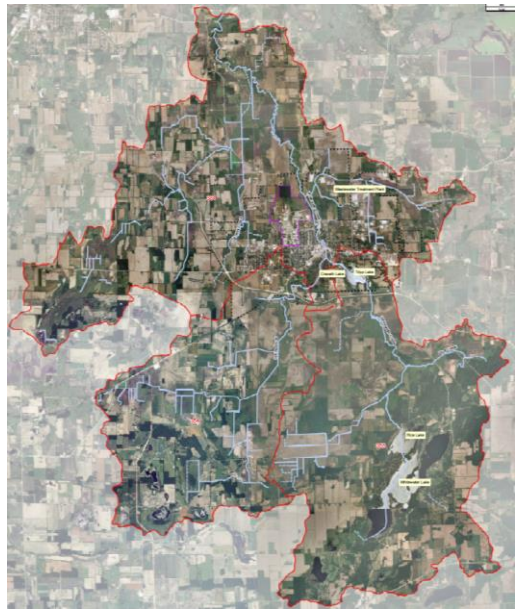
21

Starin Road Underground Wet Detention Basin

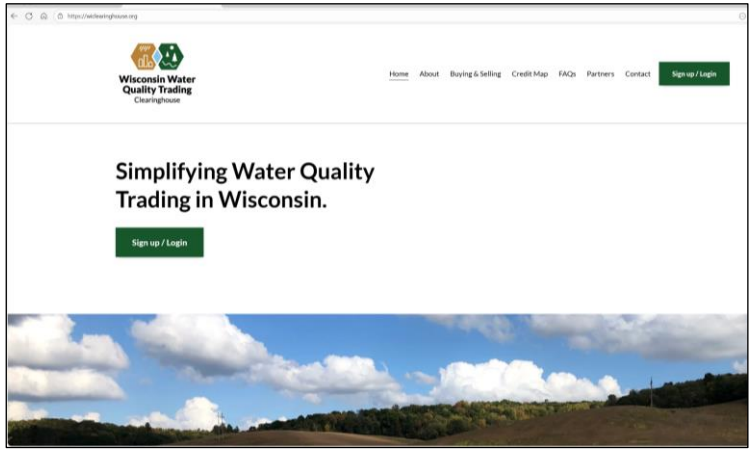


Water Quality Trading

- 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

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

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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	$71
											TP Reduction Gap	374.50	374.50	374.5

Notes:

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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.

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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)	-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).	-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	-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).**	-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.

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Questions and Answers

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Public Works Agenda Item

Meeting Date:	November 11, 2025
Agenda Item:	Water Supply Service Area Plan
Staff Contact (name, email, phone):	Brad Marquardt, bmarquardt@whitewater-wi.gov, 262-473-0139

BACKGROUND
(Enter the who, what when, where, why)

According to State Statute and Administrative Code NR 854, the City is required to update the Water Supply Service Area Plan by December 31, 2025. Strand Associates used the 2017 Water System Study Report as the basis for the update. One of the requirements is to have a public meeting where the Water Supply Service Area Plan is discussed and any comments received will be included in the final report.

PREVIOUS ACTIONS – COMMITTEE RECOMMENDATIONS
(Dates, committees, action taken)

The Public Works Committee and Common Council approved Task Order 25-08 for the preparation of the report in August 2025.

FINANCIAL IMPACT
(If none, state N/A)

N/A

STAFF RECOMMENDATION

There is no recommendation at this time. This item is to receive any public comments and include any comments in the final report.

ATTACHMENT(S) INCLUDED
(If none, state N/A)

1. Draft Amendment No. 1 for 2017 Water System Study

Addendum No. 1 for
City of Whitewater, Wisconsin

2017 Water System Study

Prepared by:

STRAND ASSOCIATES, INC.®
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Madison, WI 53715
www.strand.com

October 2025

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This Addendum No. 1 to the 2017 *Water System Study* report, herein called the 2017 Plan, is issued to modify or explain the original report to incorporate the recently adopted Wisconsin Department of Natural Resources (WDNR) administrative rule, Chapter Natural Resources (NR) 854.

ADD Section 8–NR 854 Addendum as follows:

8.01 ESTABLISHMENT OF A PLANNING PERIOD

The planning was established in the 2017 Plan in Section 3–Historical and Projected Water Demands. The planning period was identified as the end of 2037.

8.02 DELINEATION OF THE AREA

The current water supply distribution system is delineated in Figure 2.01-1 of the 2017 Plan. The projected growth area for the system through 2037 is delineated in Figure 5.05-1 in the 2017 Plan. This plan does not include diversions from the Great Lakes Basin.

8.03 DESCRIPTION OF THE PUBLIC WATER SUPPLY SYSTEM

A. Existing Sources

The existing sources serving the system are described in Section 2–Existing Water System, Subsection 2.02 of the 2017 Plan. Currently, five active wells supply the system. All wells are routed through a sand pressure filter for iron removal and treated with chlorine and fluoride. The City of Whitewater, Wisconsin (City) has indicated that there have been no water quality issues identified with its water sources.

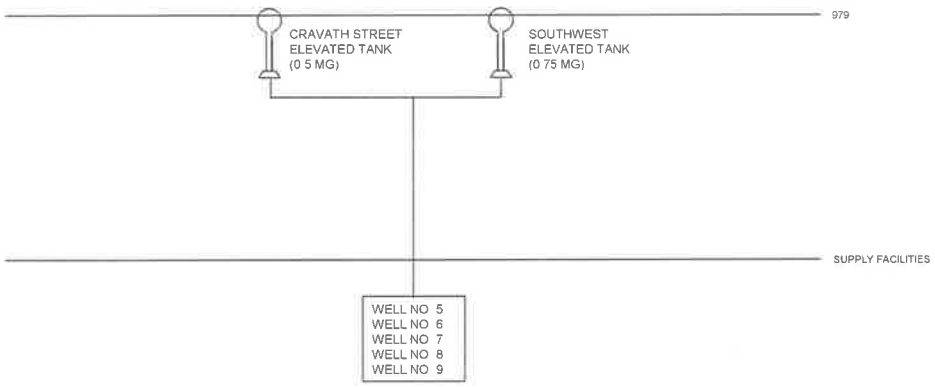
B. Consecutive Water Systems Purchasing Water

Currently, the water utility does not sell water to any consecutive water systems. There are no plans to sell water to any consecutive water systems through 2037.

C. Water System Map

A description of the water treatment facilities, water storage, and water distribution facilities are included in Section 2–Existing Water System of the 2017 Plan. A map of the water distribution system is shown in Figure 2.01-1. Since the 2017 Plan, the City has decommissioned the Starin Park Elevated Tank and replaced it with the Southwest Elevated Tank, a 0.75-million gallon elevated tank located at the southeast corner of Indian Mound Parkway and West Walworth Avenue (County Highway S). The City has also decommissioned the Well No. 7 Reservoir and booster pumps. Well No. 7 now pumps directly to the distribution system. An updated schematic of the water system is shown in Figure 8.03-1, and a map showing the location of the Great Lakes Basin in relation to the City is shown in Figure 8.03-2.

DRAFT-(10/16/25)



WATER SYSTEM SCHEMATIC

WATER SUPPLY SERVICE AREA PLAN
CITY OF WHITEWATER
WALWORTH AND JEFFERSON COUNTY, WISCONSIN

STRAND ASSOCIATES

FIGURE 8.03-1
1407.155

GREAT LAKES BASIN OVERVIEW MAP
WATER SUPPLY SERVICE AREA PLAN

CITY OF WHITEWATER
WALWORTH AND JEFFERSON COUNTY, WISCONSIN

STRAND ASSOCIATES

FIGURE 8.03-2
1407.155

8.04 DESCRIPTION OF EXISTING SOURCES AND WITHDRAWALS

A. Supply Sources and Withdrawals

The following describes the geologic formation each well pulls from:

1. Well No. 5 pulls from the Eau Claire formation.
2. Well No. 6 pulls from Mount Simon sandstone.
3. Well Nos. 7 and 8 pull from the Quartzite-Precambrian formation.
4. Well No. 9 pulls from hard sandstone.

The well drilling logs for the City wells are included in the Appendix in the 2017 Plan. The drilling logs include the depth of each well and additional geologic information. The average daily withdrawal for each source is listed in Table 8.04-1. The maximum withdrawal capacity of each source is listed in Section 2–Existing Water System, Subsection 2.02 of the 2017 Plan. The average daily and annual supply do not exceed maximum rated withdrawal capacities. The City does not purchase any water for its public water supply.

Table 8.04-1 Average Daily Withdrawal

Average Daily Withdrawal Amount (gallons)												
Well No.	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Average
5	-	-	-	294,000	310,000	405,000	327,000	286,000	278,000	292,000	240,000	304,000
6	-	-	-	373,000	280,000	484,000	380,000	323,000	281,000	325,000	267,000	339,125
7	-	-	-	336,000	319,000	345,000	231,000	373,000	335,000	384,000	343,000	333,250
8	-	-	-	521,000	432,000	447,000	361,000	403,000	355,000	410,000	363,000	411,500
9	-	-	-	195,000	321,000	361,000	396,000	336,000	321,000	378,000	369,000	334,625

Current water quality treatment processes are described in Section 2–Existing Water System, Subsection 2.02 of the 2017 Plan. The 2017 Plan does not include any diversions.

B. Withdrawal Measurement Methods

Water withdrawal from Well Nos. 5 through 9 is measured using magnetic flow meters. The meters are read daily and documented each month.

Methods to measure nonrevenue water by the City are as follows:

1. Systemwide Flushing–Compare pre- and post-average pumpage to the flushed day usage.

2. Dead-End Flushing–A meter is attached to the flushing hydrant.

3. Fire Protection–Water use is estimated based on loads of water hauled by tanker truck or average flow rate through pumper trucks.

4. Leaking from Water Main and Services–Water use is based on pipe condition, size of water main break or hole, and estimated duration of leak. Water industry tools are used to help estimate leakage.

5. Water Tower Inspections–The volume of water spent during draining and used during filling is calculated by the City, while a hydrant meter is used to measure the amount of water used for cleaning the tower during inspection.

8.05 DESCRIPTION OF EXISTING WATER USE

The population for the 2017 Plan is discussed in Section 3–Historical and Projected Water Demands. As most population density mapping is delineated by zip code, a population density map for the City is not available. The best surrogate for population density is the land use map, which shows the type of zoning and relative density of population based upon housing type.

The number of retail customers purchasing water from the City is listed in Table 8.05-1. The volume of water sold for 10 years preceding the planning period is listed in Table 8.05-2.

Year	Residential	Commercial	Industrial	Public Authority	Multifamily Residential	Irrigation	Total
2007	2,995	447	39	-	-	-	3,481
2008	2,995	447	39	100	-	-	3,581
2009	3,063	456	39	105	-	-	3,663
2010	3,116	382	40	101	-	-	3,639
2011	2,988	383	36	77	-	-	3,484
2012	2,960	399	39	76	-	-	3,474
2013	3,041	385	45	120	0	0	3,591
2014	3,071	290	41	120	100	0	3,622
2015	3,097	290	44	123	100	0	3,654
2016	3,137	293	44	126	102	0	3,702

Table 8.05-1 Number of Retail Customers

Sales of Water (Kgal)							
Year	Residential	Commercial	Industrial	Public Authority	Multifamily Residential	Irrigation	Total
2007	134,310	91,265	328,678	-	-	-	554,253
2008	132,461	94,046	282,094	87,150	-	-	595,751
2009	130,721	92,773	275,492	65,878	-	-	564,864
2010	125,168	82,621	240,423	81,521	-	-	529,733
2011	142,329	79,303	207,039	86,538	-	-	515,209
2012	135,987	88,808	316,061	107,210	-	-	648,066
2013	125,761	85,591	223,158	77,837	-	-	512,347
2014	104,124	85,567	223,622	75,500	18,375	-	507,188
2015	105,998	85,624	206,050	80,584	18,706	-	496,962
2016	124,673	82,433	234,043	86,720	50,379	-	578,248

Kgal=thousands of gallons

Table 8.05-2 Sales of Water

The top ten largest customers for the City during 10 years before the planning period are listed in Table 8.05-3. It should be noted that data for 2011 and 2012 were unavailable. The top customers have stayed relatively consistent, with LS Power Development, LLC (LS Power) being the top customer from 2008 to 2016.

Table 8.05-3 Largest Customers

	Sales (cf)								
Customers	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**
LS Power	260,508,000	259,109,000	259,109,000	-	-	210,188,292	209,946,916	194,640,115	273,652,134
University of Wisconsin-Whitewater	75,790,530	51,640,070	51,640,070	-	-	49,025,981	69,649,804	75,421,502	78,389,649
Twin Oaks Mobile Home Park	14,058,000	12,128,000	12,128,000	-	-	11,246,440	10,720,660	10,847,880	10,012,300
Fairhaven	6,867,300	6,942,800	6,942,800	-	-	6,813,140	7,238,441	6,474,618	7,869,658
Whitewater Unified School District	9,754,390	8,355,200	8,355,200	-	-	6,868,869	4,683,937	5,595,654	6,740,965
Generac Power Systems, Inc.	4,086,900	4,966,700	4,966,700	-	-	5,522,792	4,772,964	3,723,935	3,478,475
Indian Village Apartments	4,947,200	2,516,200	2,516,200	-	-	2,406,067	2,098,426	2,599,011	2,276,085
Bieck Management, Inc. Apartment Building	3,936,600	2,213,000	2,213,000	-	-	-	-	-	-
Harmony Inn Apartments	3,395,100	3,409,400	3,409,400	-	-	1,847,090	4,358,936	4,594,409	4,141,573
Regent Apartments	1,597,000	1,742,000	1,742,000	-	-	2,072,613	-	-	-
Husco International	-	-	-	-	-	-	-	-	-
Seville Apartments	-	-	-	-	-	-	3,091,880	2,783,870	3,092,130
Golden State Foods, LLC	-	-	-	-	-	-	2,742,003	2,091,866	2,162,351

cf=cubic feet

8.06 PROJECTED WATER DEMAND

A. Projected Water Demands and Growth

The projected water demands from 2017 through 2037 are discussed in Section 3–Historical and Projected Water Demands of the 2017 Plan. A description of the methods used to derive projected water demands is discussed in Section 3–Historical and Projected Water Demands, Subsections 3.04 and 3.05 of the 2017 Plan. The projected growth area during the planning period is shown in Figure 5.05-1 of the 2017 Plan. There are no projected sales to consecutive water systems through the planning period. Table 8.06-1 shows the projected water demand during the planning period. A review of the projected demand was conducted to determine the accuracy of the projection as time has passed in the planning period. The review determined that the projected demand completed in 2017 is still applicable to demands the City has been seeing.

	Total Population	Demand (MGD)
2017	15,135	1.96
2022	15,708	2.03
2027	16,303	2.11
2032	16,921	2.19
2035	17,562	2.27

MGD=million gallons per day

Table 8.06-1 Projected Water Demand

B. Population Projection

The projected population through 2037 is shown in Figure 3.02-1 of the 2017 Plan. A description of the methods used to derive the projected population is listed in Section 3–Historical and Projected Water Demands, Subsections 3.02 of the 2017 Plan.

8.07 INVENTORY AND IDENTIFICATION OF THE SOURCES AND QUANTITIES OF WATER SUPPLIES IN THE REGION

A. Inventory of Alternative Water Sources

1. Groundwater Alternatives

The City currently operates five deep wells (Well Nos. 5 through 9). Typically, deep wells support larger capacities, but often iron and radium treatment are required. Some radium treatment options may also have reject water or backwash waste and increase the system's nonrevenue water. Shallow wells typically support less capacity than deep wells and are more prone to contamination such as volatile organic compounds and per- and polyfluoroalkyl substances. Iron and manganese treatment are often required as well. Because the system currently operates to treat groundwater, additional deep wells are deemed the most viable alternative source option.

2. Surface Water Alternatives

Lake Koshkonong is located west of the City and would require approximately 15 miles of transmission main to deliver water to the City. Surface water treatment at a centralized location (either near the lake, along the transmission main, or in the City) would be required. Operation of surface water treatment is generally more expensive, requires elevated operator skill sets and licensing, and creates larger waste streams. Given the relative abundance and generally high quality of the local groundwater, a surface water source from Lake Koshkonong is deemed not viable.

8.08 PLAN RECOMMENDATIONS

Section 7–Conclusions and Recommendations of the 2017 Plan discusses that the enlargement of existing sources, development of new sources, or purchase of a new water supply is not needed to meet demands through 2037. Therefore, there does not need to be an analysis of increasing water supply.

The 2017 Plan demonstrates that the existing water system effectively uses its existing infrastructure to meet anticipated demands scenarios. Section 3–Historical and Projected Water Demands of the 2017 Plan reviews average day, maximum day, and maximum day plus fire projected demand scenarios and compares those with existing capacities, which shows that additional water supply is not needed.

8.09 ANALYSIS AND CONSISTENCY WITH OTHER PLANS AND AGREEMENTS

A. Approved Comprehensive Plans

Comprehensive plans that include the City are the *City of Whitewater Comprehensive Plan* (Updated 2017) prepared by Vandewalle & Associates, Inc., *Southeastern Wisconsin Regional Planning Commission Multi-Jurisdictional Comprehensive Plan for Walworth County* (Updated 2019) prepared by the Southeastern Wisconsin Regional Planning Commission (SEWRPC), and *Jefferson County Comprehensive Plan* (2021) prepared by SRF Consulting Group, Inc. The future land use outlined in the *City of Whitewater Comprehensive Plan* is consistent with the future service area shown in the 2017 Plan. The historical census data in the *Southeastern Wisconsin Regional Planning Commission Multi-Jurisdictional Comprehensive Plan for Walworth County* and the *Jefferson County Comprehensive Plan* are the same as the 2017 Plan.

B. Approved Areawide Water Quality Management Plans

The City is included in SEWRPC's Regional Water Quality Management Plan. The amended *Regional Water Quality Management Plan Update for the Greater Milwaukee Watersheds* (2013) completed by SEWRPC can be found on the City's Web site.

C. Existing Land Use Agreements

The City does not have any current land use agreements. Section 5–Computer Modeling of the 2017 Plan shows areas of future development; however, these boundaries could change depending on growth extents.

D. Existing Wholesale or Retail Customer Sales Agreements

There are no known wholesale or retail customer sales agreements between the City and another entity.

E. Other Existing Agreements

There are no other known agreements between the City and another entity.

8.10 PUBLIC PARTICIPATION

This addendum to the 2017 Plan that is based on requirements needed by WDNR NR 854 will be included in the City's Public Works Committee agenda. Comments will be requested by e-mail or public comment at the Public Works Committee Meeting. Public comments will be added to this addendum as an Appendix and will be reviewed and acknowledged by the Public Works Committee.

8.11 SUBMISSION OF PLAN TO LOCAL GOVERNMENT

A submission of the plan to local governments will take place after public participation. Any comments from local governments will be added to this addendum as an Appendix.

8.12 PROCEDURE FOR IMPLEMENTING AND UPDATING THE PLAN

The City will continue to monitor water demands, population changes, and the resulting impact on the 2017 Plan. As changes are deemed necessary, the City will work with the WDNR and Public Service Commission to revise and update the 2017 Plan through the end of the planning period.

Public Works Agenda Item

Meeting Date:	November 11, 2025
Agenda Item:	Elizabeth Street Parking
Staff Contact (name, email, phone):	Brad Marquardt, bmarquardt@whitewater-wi.gov, 262-473-0139

BACKGROUND
(Enter the who, what when, where, why)

At the Public Works meeting on September 9, 2025, the committee reviewed parking discrepancies including some along Elizabeth Street. The committee did not make any recommendations at that time regarding Elizabeth Street due to having interest in talking to the school district first to get their input. Attached is the list of parking restrictions on Elizabeth Street along with a map indicating such restrictions. The first restriction listed is no problem. The next four restrictions are contrary to the last restriction listed.

The existing signage is as follows:

- West Side from 115 north of Melrose to Court Street: No Stopping, Standing or Parking. (4 signs)
- West Side from Kay to Walworth: 2 Hr Parking during School Hours, 8:00 – 4:00. (1 sign)
- West Side from Walworth to cul-de-sac: No Parking This Side. (6 signs)
- East Side from cul-de-sac to Walworth: 2 Hr Parking during School Hours, 8:00 – 4:00. (5 signs)
- East Side from Walworth to Middle School property: 2 Hr Parking during School Hours, 8:00 – 4:00. (2 signs)
- East Side adjacent to Middle School Property: No Parking This Side of Street. (2 signs)

PREVIOUS ACTIONS – COMMITTEE RECOMMENDATIONS
(Dates, committees, action taken)

The Public Works Committee met on September 9, 2025 but took no action on the Elizabeth Street parking restrictions.

FINANCIAL IMPACT
(If none, state N/A)

There could be minimal financial impact with purchasing any new signs that would be required.

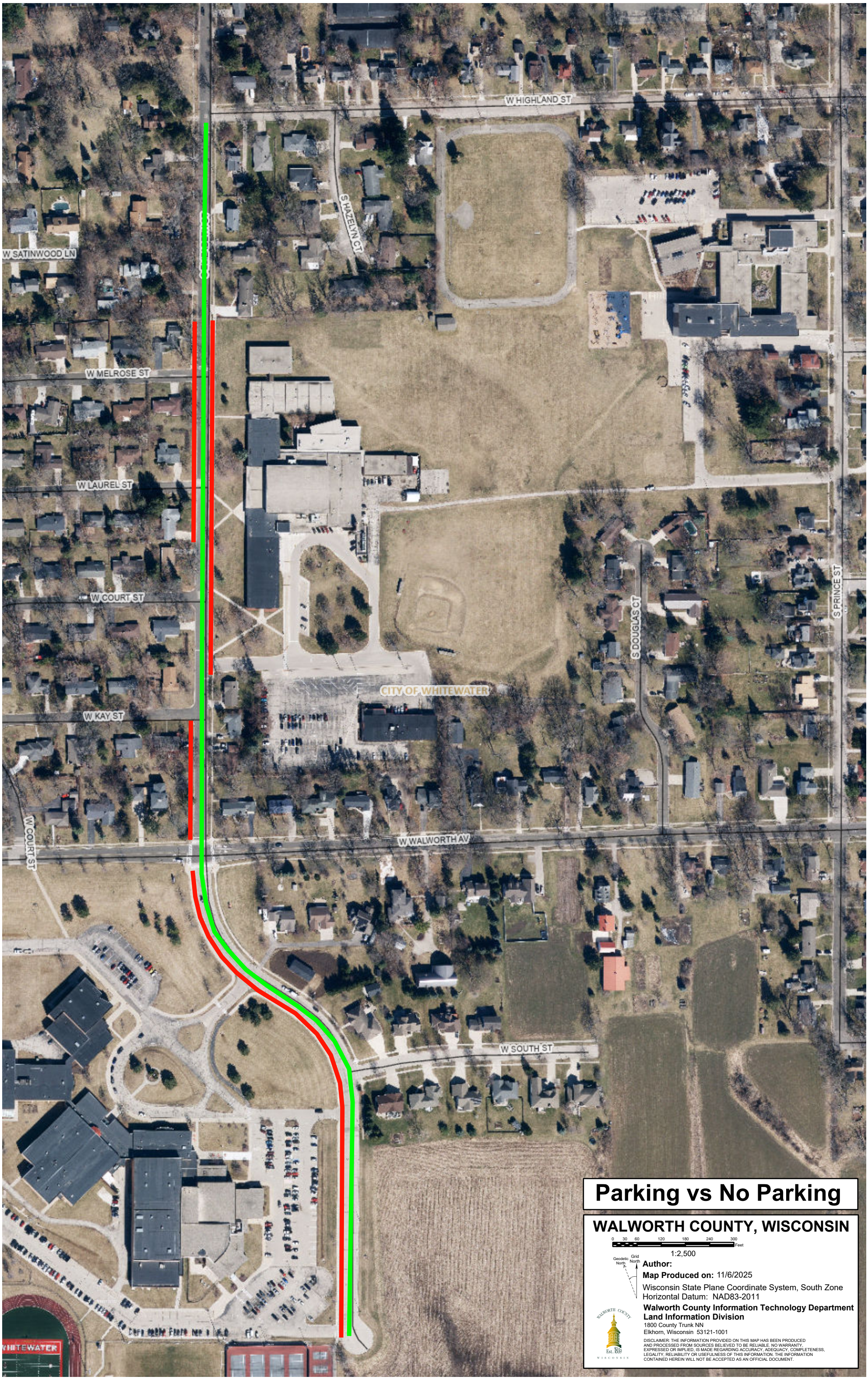
STAFF RECOMMENDATION

Staff is looking for direction on what should be posted and included in the Municipal Code.

ATTACHMENT(S) INCLUDED
(If none, state N/A)

1. Elizabeth Street Parking Restrictions
2. Elizabeth Street Parking Map

S	Elizabeth St	Both sides; from the south curbline of W Main, south to a point 297 feet south	11.16.080	No parking
S	Elizabeth St	East side; along entire frontage of 401 S Elizabeth (Middle School)	11.16.080	No parking
S	Elizabeth St	West side; from a point 115 feet north of the north curbline of W Melrose, south to a point 553 feet south of the north curbline of W Melrose	11.22.010	No stopping, standing or parking
S	Elizabeth St	West side; from Kay St south to W Walworth	11.16.080	No parking
S	Elizabeth St	West side; south of Walworth Ave	11.16.080	No parking
S	Elizabeth St	Both sides, commencing at intersection with W Highland, thence south to southern terminus	11.16.125	Two-hour parking from 8:00 a.m. to 4:00 p.m. except Saturdays, Sundays, and holidays.



Parking vs No Parking

WALWORTH COUNTY, WISCONSIN

0 30 60 120 180 240 300 Feet

1:2,500

Geodetic North / Grid North

Author:

Map Produced on: 11/6/2025

Wisconsin State Plane Coordinate System, South Zone
Horizontal Datum: NAD83-2011

Walworth County Information Technology Department
Land Information Division
1800 County Trunk NN
Elkhorn, Wisconsin 53121-1001

Public Works Agenda Item

Meeting Date:	November 11, 2025
Agenda Item:	Contract 3-2025
Staff Contact (name, email, phone):	Brad Marquardt, bmarquardt@whitewater-wi.gov, 262-473-0139

BACKGROUND
(Enter the who, what when, where, why)

The Wastewater Treatment Plant Return Activated Sludge Pump Addition Project was advertised with bids due on October 28, 2025. Two bids were received.

Sabel Mechanical	$243,850.00
August Winter & Sons	$274,200.00

PREVIOUS ACTIONS – COMMITTEE RECOMMENDATIONS
(Dates, committees, action taken)

The Public Works Committee and Common Council approved Task Order 25-04 for the design of the project in February 2025.

FINANCIAL IMPACT
(If none, state N/A)

Strand's Opinion of Probable Construction Cost was $158,000. The project was included in the 2026 CIP with a budget of $140,000. Strand reached out to Sabel Mechanical after the bid and asked for a breakout of costs. The huge difference was in Electrical where Sabel Mechanical was estimating $126,000 worth of work.

STAFF RECOMMENDATION

The low bid is 55% higher than the estimate. Staff cannot justify a recommendation to move forward with this project at this time. Staff recommends a motion to reject all bids and not award the contract and forward to council for final action. Staff will also ask Finance to remove this project from the CIP for consideration next year.

Due to the small scale of construction, staff will look to do this project in conjunction with and when another project is planned at the Wastewater Treatment Facility.

ATTACHMENT(S) INCLUDED
(If none, state N/A)

1. Bid Tab

Wastewater Treatment Plant Return Activated Sludge Pump Addition							
Contract 3-2025							
City of Whitewater, Wisconsin							
Solicitor: Strand Associates, Inc.							
October 28, 2025 1 P.M. Central Time							
				Sabel Mechanical		August Winter & Sons, Inc	
Section Title	Item Description	UofM	Quantity	Unit Price	Extension	Unit Price	Extension
	Lump Sum Bid	LS	1	$243,850.00	$243,850.00	$274,200.00	$274,200.00
Base Bid Total:					$243,850.00		$274,200.00

Public Works Agenda Item

Meeting Date:	November 11, 2025
Agenda Item:	Hamilton House Easement
Staff Contact (name, email, phone):	Brad Marquardt, bmarquardt@whitewater-wi.gov, 262-473-0139

BACKGROUND
(Enter the who, what when, where, why)

The Hamilton House, located at 328 W. Main Street, wants to install a handicap ramp along the west side of their building to provide ADA access. The current 48-inch-wide sidewalk abuts the property line. In order to install the 52-inch-wide handicap ramp, they need an easement from the city owned parcel to the west, Parcel /OT 00037. The permanent easement would be one foot, with a temporary easement also granted for construction.

PREVIOUS ACTIONS – COMMITTEE RECOMMENDATIONS
(Dates, committees, action taken)

The Plan and Architectural Review Commission meets on Monday, November 10, 2025 to give their recommendation.

FINANCIAL IMPACT
(If none, state N/A)

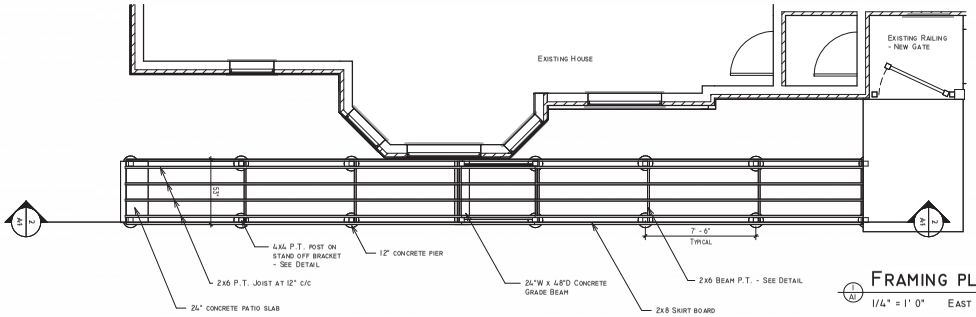
N/A

STAFF RECOMMENDATION

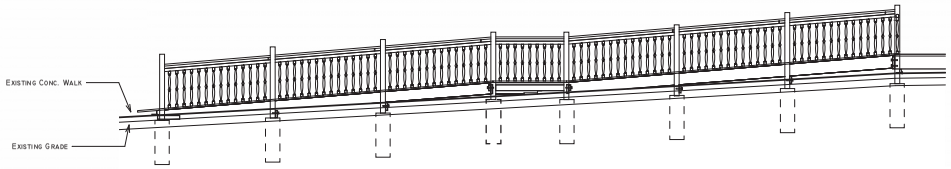
Staff recommends a motion to approve the easement and forward to council for final approval. Easement language will be available for the Council meeting.

ATTACHMENT(S) INCLUDED
(If none, state N/A)

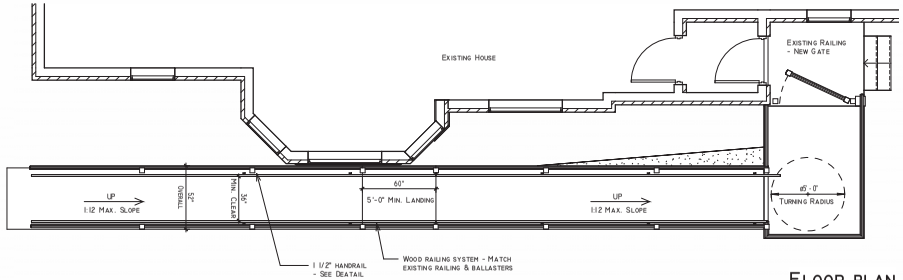
1. Hamilton House Ramp
2. Hamilton House Survey



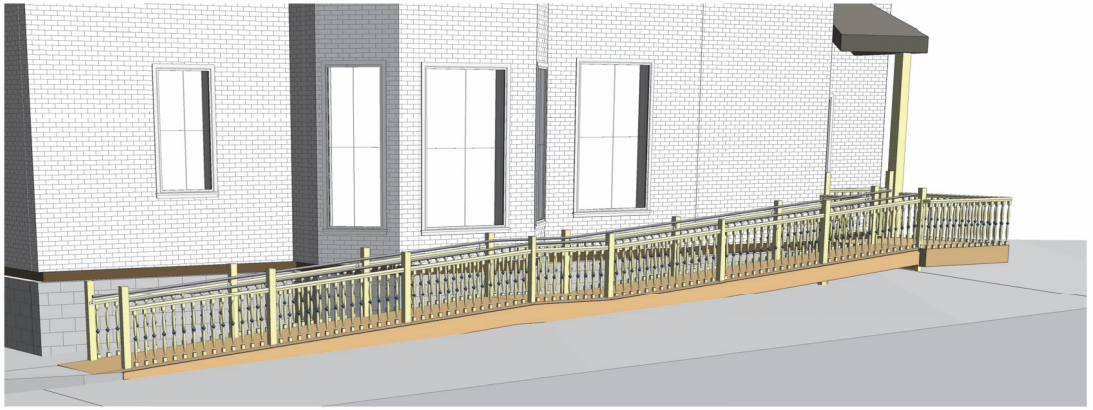
FRAMING PLAN
1/4" = 1' 0" EAST RAMP



SECTION
1/4" = 1' 0" EAST RAMP



FLOOR PLAN
1/4" = 1' 0" EAST RAMP



CONCEPT ELEVATION
EAST ELEVATION

HAMILTON HOUSE

328 W MAINT ST. WHITEWATER, WI 53190

NOT FOR CONSTRUCTION

- [x] PRELIMINARY REVIEW SET
- [ ] FINAL REVIEW SET
- [ ] BID SET
- [ ] PERMIT SET
- [ ] CONSTRUCTION SET

REVISION DATE

DATE
06/06/2025

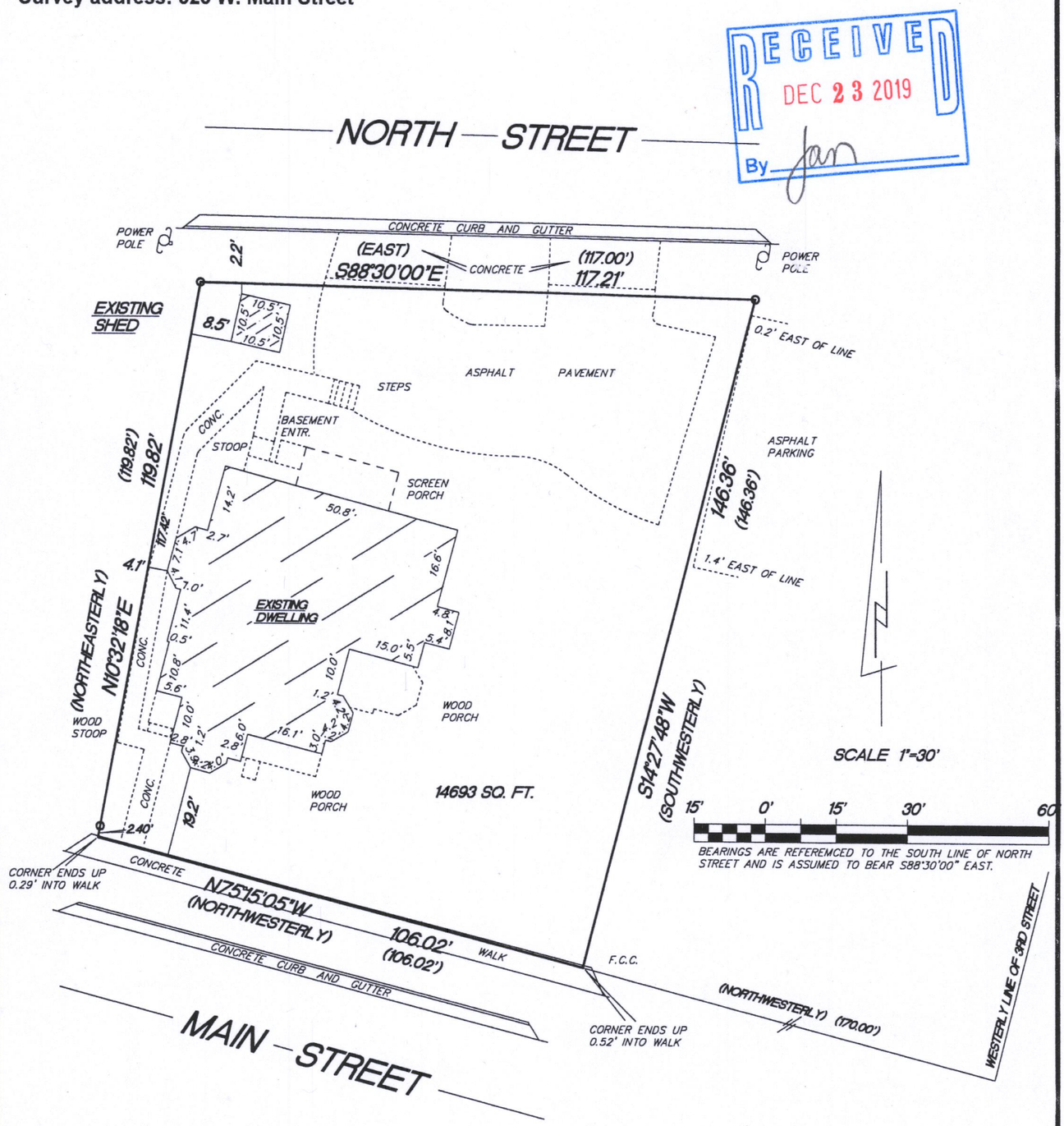
A1

PLAT OF SURVEY

A parcel of land being part of Lots 2 and 3 in Block 4, in the Original Plat of the Village (now City) of Whitewater, and described as follows, to-wit: Commencing at the Southeast corner of said Block 4; thence Northwesterly 170.00 feet along the North line of Main Street, to the place of beginning; thence continue Northwesterly 106.02 feet along said North line; thence Northeasterly 119.82 feet to the South line of North Street; thence East 117.00 feet along said South line; thence Southwesterly 146.36 feet, parallel to the Easterly line of said Block 4, to the North line of Main Street and the place of beginning, said parcel being part of the Southwest ¼ of Section 4, in Township 4 North, Range 15 East, in the City of Whitewater, County of Walworth, State of Wisconsin.

Surveyed for: Scott Urich

Survey address: 328 W. Main Street



- o FOUND 1 1/4" O.D. IRON PIPE
- F.C.C. FOUND CHISELED CROSS
- ( ) RECORDED AS DIMENSIONS

"I hereby certify that I have surveyed the above described property and that the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location of all visible structures and dimensions of all principal buildings thereon, boundary fences, apparent easements, roadways and encroachments if any"

"This survey is made for the use of the present owners of the property, and also those who purchase, mortgage or guarantee the title thereto within one year from date hereof."

KETTLE MORAINE SURVEYING INC.
S75 W36245 Wilton Road
Eagle Wisconsin 53119
P.O. Box 357
(262) 594-3484
kettlemorainesurvey.com
Terrance E. Pisarek P.L.S.

WISCONSIN
TERRANCE E. PISAREK
S-1930
EAGLE, WISCONSIN
LAND SURVEYOR

THIS IS NOT AN ORIGINAL SURVEY UNLESS THE SEAL IS RED.

REV. 12/16/19 9/21/00	TEP/DW	TEP	00257
DATE	FIELD WORK BY	DRAWN BY	JOB NUMBER

/OT-36 010-1073

Public Works Agenda Item

Meeting Date:	November 11, 2025
Agenda Item:	Whitewater Creek debris
Staff Contact (name, email, phone):	Brad Marquardt, bmarquardt@whitewater-wi.gov, 262-473-0139

BACKGROUND
(Enter the who, what when, where, why)

Staff received calls from two concerned residents along Whitewater Creek, who reside on George Street just north of the bridge. Their concern was with a blockage causing debris, mainly dead cattails, backing up in the creek adjacent to their and other's property. According to the DNR, the DNR nor the City is responsible for removing anything from the waterway. Affected residents can remove material if they desire as long as the riverbed is not disturbed, otherwise a dredging permit would be required. The blockage, and backup, are more than the residents can handle and even more than the City can take on. The City Manager is in agreement with hiring a contractor to help with the removal of the blockage and backup. However, since this was not a budgeted expense, he asked that this item be brought to the Public Works Committee for discussion.

PREVIOUS ACTIONS – COMMITTEE RECOMMENDATIONS
(Dates, committees, action taken)

N/A

FINANCIAL IMPACT
(If none, state N/A)

An estimate from a local contractor thought they could do the work for under $25,000. If the City helped with trucking the material to the compost site, it would be even less. There is money available in the Stormwater Utility from the 2025 Dredging Project. $300,000 was budgeted, but the project came in at around $160,000.

STAFF RECOMMENDATION

The blockage is from a large tree in the water. The backup consists of dead cattails that are being washed downstream from the lakes and from dried up duckweed. The backup material is estimated to be one to three feet thick. Staff's recommendation is to move forward with this project. The project is proposed to be completed over the winter.

ATTACHMENT(S) INCLUDED
(If none, state N/A)

1. Pictures