

# Compliance Maintenance Annual Report

Wauwatosa Sewage Collection System

Last Updated: Reporting For:  
6/11/2025 2024

## Financial Management

1. Provider of Financial Information		
Name:	<input type="text" value="Kelly Heilert"/>	
Telephone:	<input type="text" value="(414) 479-8923"/>	(XXX) XXX-XXXX
E-Mail Address (optional):	<input type="text" value="kheilert@wauwatosa.net"/>	
2. Treatment Works Operating Revenues		
2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ?		
● Yes (0 points) <input type="checkbox"/>		
○ No (40 points)		
If No, please explain:		
<input type="text"/>		
2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised?		
Year: <input type="text" value="2024"/>		0
● 0-2 years ago (0 points) <input type="checkbox"/>		
○ 3 or more years ago (20 points) <input type="checkbox"/>		
○ N/A (private facility)		
2.3 Did you have a special account (e.g., CWWP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?		
● Yes (0 points)		
○ No (40 points)		
REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]		
3. Equipment Replacement Funds		
3.1 When was the Equipment Replacement Fund last reviewed and/or revised?		
Year: <input type="text" value="2024"/>		
● 1-2 years ago (0 points) <input type="checkbox"/>		
○ 3 or more years ago (20 points) <input type="checkbox"/>		
○ N/A		
If N/A, please explain:		
<input type="text"/>		
3.2 Equipment Replacement Fund Activity		
3.2.1 Ending Balance Reported on Last Year's CMAR		\$ <input type="text" value="18,826,872.41"/>
3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)		\$ <input type="text" value="0.00"/>
3.2.3 Adjusted January 1st Beginning Balance		\$ <input type="text" value="18,826,872.41"/>
3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)		\$ <input type="text" value="13,286,756.58"/>
		+

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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below\*)

- \$ 10,286,756.58

3.2.6 Ending Balance as of December 31st for CMAR Reporting Year

\$ 21,826,872.41

All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.

3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs from 3.2.5 above.

Total expenses - Less depreciation + Current bond payable

3.3 What amount should be in your Replacement Fund? \$ 61,294.00

0

Please note: If you had a CWFPP loan, this amount was originally based on the Financial Assistance Agreement (FAA) and should be regularly updated as needed. Further calculation instructions and an example can be found by clicking the SectionInstructions link under Info header in the left-side menu.

3.3.1 Is the December 31 Ending Balance in your Replacement Fund above, (#3.2.6) equal to, or greater than the amount that should be in it (#3.3)?

● Yes

○ No

If No, please explain.

## 4. Future Planning

4.1 During the next ten years, will you be involved in formal planning for upgrading, rehabilitating, or new construction of your treatment facility or collection system?

● Yes - If Yes, please provide major project information, if not already listed below. ☐ ☐

○ No

Project #	Project Description	Estimated Cost	Approximate Construction Year
1	2025 Sanitary Sewer Capital Improvement Program and MH Rehab	\$2,124,683	2025
2	2026 Sanitary Sewer Capital Improvement Program and MH Rehab	\$4,388,250	2026
3	2027 Sanitary Sewer Capital Improvement Program and MH Rehab	\$8,936,020	2027
4	2028 Sanitary Sewer Capital Improvement Program and MH Rehab	\$6,848,128	2028
5	2029 Sanitary Sewer Capital Improvement Program and MH Rehab	\$7,235,187	2029

## 5. Financial Management General Comments

### ENERGY EFFICIENCY AND USE

## 6. Collection System

### 6.1 Energy Usage

6.1.1 Enter the monthly energy usage from the different energy sources:

**COLLECTION SYSTEM PUMPAGE: Total Power Consumed**

Number of Municipally Owned Pump/Lift Stations: 8

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	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	1,286	
February	1,135	
March	1,233	
April	1,093	
May	937	
June	840	
July	472	
August	518	
September	464	
October	455	
November	519	
December	954	
Total	9,906	0
Average	826	0

6.1.2 Comments:

Seven sanitary bypass pump stations have electric power. Annual maintenance is performed in the beginning of the year, thus the higher electric consumption. Only one bypass pump station is equipped with a natural gas generator. Also, the City has one grinder pump station for a comfort station, located at Hart Park.

6.2 Energy Related Processes and Equipment

6.2.1 Indicate equipment and practices utilized at your pump/lift stations (Check all that apply):

- ☒ Comminution or Screening
- ☐ Extended Shaft Pumps
- ☐ Flow Metering and Recording
- ☐ Pneumatic Pumping
- ☒ SCADA System
- ☐ Self-Priming Pumps
- ☒ Submersible Pumps
- ☐ Variable Speed Drives
- ☐ Other:

6.2.2 Comments:

6.3 Has an Energy Study been performed for your pump/lift stations?

☒ No

☐ Yes

Year:

By Whom:

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Describe and Comment:
<div></div>
6.4 Future Energy Related Equipment
6.4.1 What energy efficient equipment or practices do you have planned for the future for your pump/lift stations?
<div>The total energy consumption for all the bypass pump stations was 9,906 kWh for the year. The average energy usage increased by 231 kWh from the previous year. Monthly inspections and annual maintenance of all the bypass pump stations result in maximum reliability and energy efficiency.</div>

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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## Sanitary Sewer Collection Systems

### 1. Capacity, Management, Operation, and Maintenance (CMOM) Program

#### 1.1 Do you have a CMOM program that is being implemented?

- Yes
- No

If No, explain:

#### 1.2 Do you have a CMOM program that contains all the applicable components and items according to Wisc. Adm Code NR 210.23 (4)?

- Yes
- No (30 points)
- N/A

If No or N/A, explain:

#### 1.3 Does your CMOM program contain the following components and items? (check the components and items that apply)

- ☒ Goals [NR 210.23 (4)(a)]

Describe the major goals you had for your collection system last year:

The City of Wauwatosa has an aggressive strategic plan in all parts of the City which includes plans to be a "City of Great Services". Pursuant to this goal the City has many ongoing initiatives to manage its sewer systems, which our residents regard as a priority. These are as follows:

- Manhole inspection program- The City has an ongoing plan to inspect all of its manholes to make sure that all manholes are gasketed and that any pick holes are covered with the proper plugs. Every sewer crew is equipped with proper tools to remove such plugs and to identify manholes that have inoperative seals and are instructed in the proper and safe way to remove manhole covers for inspection.
- I/I identification and repair- The City and MMSD has continued the practice of identifying areas that are currently outside of flow standards. The aggressive action plan to line main lines (on street reconstruction projects) and to grout not only the joints from sanitary laterals to the main (considered standard practice) but continue to apply chemical grout ten feet up the sanitary lateral. This has had a profound effect on excessive flow issues.
- Asset improvement- The City has installed a new state of the art SCADA system which removed the City's reliance on analog communication systems and graduated to a I-pad monitoring for all pumping stations. This has made the monitoring of systems much more manageable and enhanced the crew's ability to monitor all system functions at a glance.
- Management- In 2015 many management initiatives have been implemented, and have continued through 2024. Our sanitary and storm system crew leader has successfully implemented a tracking system to develop action plans and goals in all critical target areas of the system:

\* Catch basin cleaning- A goal of 600 catch basins cleaned for the year was set and achieved. Daily tracking of production and amount of material extracted has proven a successful method of achieving goals.

\* Sewer cleaning- A goal of cleaning the entire sewer system (except for freshly lined and cleaned part of the system) was also achieved.

\* Street Sweeping- The City has continued its practice of dedicated staff to complete nightly street sweeping in non-winter months. This effort has yielded excellent production. In addition, a DNR permit was secured to retain all street sweeping material (less trash and other residual material) to save approximately \$25,000 and keep over 500 tons of material out of the landfill. This material is used as fill on DPW grounds to fill in low lying areas in disposal areas.

Did you accomplish them?

- Yes

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☐ No

If No, explain:

☒ Organization [NR 210.23 (4) (b)] ☐ ☐

Does this chapter of your CMOM include:

- ☒ Organizational structure and positions (eg. organizational chart and position descriptions)
- ☒ Internal and external lines of communication responsibilities
- ☒ Person(s) responsible for reporting overflow events to the department and the public

☒ Legal Authority [NR 210.23 (4) (c)]

What is the legally binding document that regulates the use of your sewer system?

Wauwatosa Municipal Code - Chapter 13.24

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY) 2015-10-20

Does your sewer use ordinance or other legally binding document address the following:

- ☐ Private property inflow and infiltration
  - ☒ New sewer and building sewer design, construction, installation, testing and inspection
  - ☒ Rehabilitated sewer and lift station installation, testing and inspection
  - ☒ Sewage flows satellite system and large private users are monitored and controlled, as necessary
  - ☒ Fat, oil and grease control
  - ☒ Enforcement procedures for sewer use non-compliance
  - ☒ Operation and Maintenance [NR 210.23 (4) (d)]
- Does your operation and maintenance program and equipment include the following:
- ☒ Equipment and replacement part inventories
  - ☒ Up-to-date sewer system map
  - ☒ A management system (computer database and/or file system) for collection system information for O&M activities, investigation and rehabilitation
  - ☒ A description of routine operation and maintenance activities (see question 2 below)
  - ☒ Capacity assessment program
  - ☒ Basement back assessment and correction
  - ☒ Regular O&M training

☒ Design and Performance Provisions [NR 210.23 (4) (e)] ☐ ☐

What standards and procedures are established for the design, construction, and inspection of the sewer collection system, including building sewers and interceptor sewers on private property?

- ☒ State Plumbing Code, DNR NR 110 Standards and/or local Municipal Code Requirements
- ☒ Construction, Inspection, and Testing
- ☐ Others:

☒ Overflow Emergency Response Plan [NR 210.23 (4) (f)] ☐ ☐

Does your emergency response capability include:

- ☒ Responsible personnel communication procedures
- ☒ Response order, timing and clean-up
- ☒ Public notification protocols
- ☒ Training
- ☒ Emergency operation protocols and implementation procedures
- ☒ Annual Self-Auditing of your CMOM Program [NR 210.23 (5)] ☐ ☐
- ☒ Special Studies Last Year (check only those that apply):
- ☒ Infiltration/Inflow (I/I) Analysis

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- ☒ Sewer System Evaluation Survey (SSES)
- ☐ Sewer Evaluation and Capacity Management Plan (SECAP)
- ☒ Lift Station Evaluation Report
- ☒ Others:

Sewer televising program, Sewer Rehabilitation program, Manhole Inspection program, and Manhole Rehabilitation program.

0

## 2. Operation and Maintenance

2.1 Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained.

Cleaning	36	% of system/year
Root removal	4	% of system/year
Flow monitoring	4	% of system/year
Smoke testing	0	% of system/year
Sewer line televising	3	% of system/year
Manhole inspections	22	% of system/year
Lift station O&M	8	# per L.S./year
Manhole rehabilitation	2	% of manholes rehabbed
Mainline rehabilitation	2	% of sewer lines rehabbed
Private sewer inspections	1	% of system/year
Private sewer I/I removal	1	% of private services
River or water crossings	10	% of pipe crossings evaluated or maintained

Please include additional comments about your sanitary sewer collection system below:

Clarification: In the Lift station O&M category listed above, which states eight. Seven of them are sanitary bypass pump stations and one is a grinder pump station for a small city owned comfort station building at Hart Park.

Note: Wauwatosa has 4,137 sanitary manholes.

3.1 Performance Indicators Note: The number of complaints are based on property owners calling the DPW with sewer issues. Most calls are related to sewer issues on private property, such as laterals or plumbing. The DPW investigates every call to verify that there are no problems with the city sanitary sewer system. When verified that there are no problems with the city sewers, the DPW will call the property owners back to explain and educate that the cause the sewer issue is on private property. Of the 70 sewer calls that the DPW took in 2024, none were found to have potentially originated from the sanitary sewer main.

## 3. Performance Indicators

3.1 Provide the following collection system and flow information for the past year.

38.75	Total actual amount of precipitation last year in inches
34.57	Annual average precipitation (for your location)
153	Miles of sanitary sewer
8	Number of lift stations
0	Number of lift station failures

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0	Number of sewer pipe failures
1	Number of basement backup occurrences
70	Number of complaints
7.6	Average daily flow in MGD (if available)
	Peak monthly flow in MGD (if available)
79.7	Peak hourly flow in MGD (if available)

3.2 Performance ratios for the past year:

0.00	Lift station failures (failures/year)
0.00	Sewer pipe failures (pipe failures/sewer mile/yr)
0.00	Sanitary sewer overflows (number/sewer mile/yr)
0.01	Basement backups (number/sewer mile)
0.46	Complaints (number/sewer mile)
0.0	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
10.5	Peaking factor ratio (Peak Hourly:Annual Daily Avg)

4. Overflows

LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OVERFLOWS REPORTED **				
Date	Location	Cause	Estimated Volume	
None reported				

\*\* If there were any SSOs or TFOs that are not listed above, please contact the DNR and stop work on this section until corrected.

5. Infiltration / Inflow (I/I)

5.1 Was infiltration/inflow (I/I) significant in your community last year?

☒ Yes

☐ No

If Yes, please describe:

With the 2024 total rainfall being above the annual average, I/I still remains a problem. Although, I/I was still less than it would have been due to the city's continuing sanitary sewer and manhole rehabilitation programs, and lateral grouting projects.

5.2 Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year?

☐ Yes

☒ No

If Yes, please describe:

5.3 Explain any infiltration/inflow (I/I) changes this year from previous years:

I/I was likely to be higher, as 2024 brought 4.18-inches of additional rainfall as compared to 2023. I/I was still less than it would have been due to the city's continuing sanitary sewer and manhole rehabilitation programs, and lateral grouting projects.

5.4 What is being done to address infiltration/inflow in your collection system?



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<p>The City has ongoing sanitary sewer and sanitary manhole (MH) rehabilitation programs. Under the MH rehabilitation program: MH's are inspected on a regular basis; covers with multiple vent or pick holes are replaced with self-sealing covers; covers with worn or missing gaskets are also replaced with self-sealing covers; interior frame/chimney seals are added where none exist or where existing seals have failed; MHs with I/I are lined or rebuilt. Under the sanitary sewer program: sewer lines are inspected. Sewers showing signs of I/I are relined or relayed, with unused laterals being plugged at the main sewer and grouting of laterals that are in service.</p>	
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Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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6/11/2025           **2024**

## Grading Summary

WPDES No: 0047341

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS			4	16
GRADE POINT AVERAGE (GPA) = 4.00				

Notes:

- A = Voluntary Range (Response Optional)
- B = Voluntary Range (Response Optional)
- C = Recommendation Range (Response Required)
- D = Action Range (Response Required)
- F = Action Range (Response Required)

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## Resolution or Owner's Statement

Name of Governing  
Body or Owner:

City of Wauwatosa

Date of Resolution or  
Action Taken:

Resolution Number:

Date of Submittal:

### ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B. Required for grade C, D, or F):

Financial Management: Grade =    A

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Wauwatosa to accept the 2024 Compliance Maintenance Annual Report (CMAR) and that the following recommendations and actions be taken to address and correct problems and deficiencies of the collection system as identified in the Compliance Maintenance Annual Report (CMAR) in order to maintain compliance with effluent limitations and permit conditions and eliminate Sanitary Sewer Overflows (SSO):

1) Continue with the City's accelerated Inflow and Infiltration elimination program.  
2) Continue with its current sanitary sewer collection system operational procedures and make improvements where necessary.  
3) Initiate additional engineering studies in areas where there may be inadequate capacity.  
4) Perform orderly and timely repairs and maintenance.  
5) Add newly identified troubled spots to a monthly maintenance schedule.

Collection Systems: Grade =    A  
(Regardless of grade, response required for Collection Systems if SSOs were reported)

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1) Continue with the City's accelerated Inflow and Infiltration elimination program.  
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3) Initiate additional engineering studies in areas where there may be inadequate capacity.  
4) Perform orderly and timely repairs and maintenance.  
5) Add newly identified troubled spots to a monthly maintenance schedule.

### ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS

(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00)  
**G.P.A. = 4.00**