



See Agenda Packet for
Login and Complete Packet Details
Mequon, WI 53092
Phone: 262-236-2934
Fax: 262-242-9655

www.ci.mequon.wi.us

Public Works/Engineering
Taped and Televised

SEWER UTILITY DISTRICT COMMISSION
Tuesday, June 8, 2021
7:30 PM or Immediately Following the
Mequon Municipal Water Utility Commission Meeting
Virtual and In-person

HYBRID MEETING NOTICE: Pursuant to the current recommendations of the CDC, various regulatory agencies and the WEDC, and to provide safe access to the meeting to those people unwilling or unable to attend in-person because of COVID-19, this meeting will be held both virtually through the GoToMeeting platform and in-person with each member accessing the meeting in the manner they choose. Citizens wishing to attend the meeting are encouraged to watch the live broadcast of the meeting on the City's YouTube Account (<https://www.youtube.com/channel/UCZDJETJla2M-KQgIcEDiyMQ>), or on the City's Agenda Management Website (<http://mequoncitywi.iqm2.com/Citizens/default.aspx>). Citizens may also join the meeting online or by phone. Please go to <https://www.gotomeet.me/Mequon/cc> to join the meeting online or call into the meeting by dialing 1-866-899-4679 and enter access code 298-967-317. You may also attend the meeting in person at the location listed above.

WRITTEN PUBLIC COMMENTS may be submitted in advance of the meeting. Written comments should be directed to the Director of Public Works Department at least 2 hours prior to the meeting by email at klundeen@ci.mequon.wi.us addressed to the intended committee. Written public comments may also be deposited in the drop box at City Hall at 11333 N. Cedarburg Road, Mequon, at least 2 hours prior to the meeting. Comments received timely will be forwarded to all members of the body for their consideration.

VERBAL PUBLIC COMMENTS and PUBLIC HEARING APPEARANCES will be accepted only from members of the public who register in advance if attending remotely. Registration shall be made by sending an email to Director of Public Works/City Engineer Kristen Lundeen at klundeen@ci.mequon.wi.us or by leaving a message at 262-236-2938 no later than 2 hours prior to the meeting. Those attending in person should register at the meeting.

Reasonable accommodations will be made for those citizens who are unable to attend the meeting in the methods identified above upon at least 2 hours' notice. Notice can be given to the City Clerk's Office at 262-236-2914.

AGENDA

- 1) Call to Order, Roll Call
- 2) Approval of Meeting Minutes
Action requested: review and approve

- a. May 11, 2021 Minutes

3) Resolutions

Action requested: review and recommend approval

- a. **RESOLUTION 3847** A Resolution Authorizing City Staff to File the City of Mequon's Compliance Maintenance Annual Report (CMAR) for Calendar Year 2020, in Accordance with Requirements Under Wisconsin Administrative Code NR208
- b. **RESOLUTION 3854** A Resolution Authorizing Execution of a State-Municipal Agreement Between the City of Mequon and the Wisconsin Department of Transportation (WisDOT) for the Completion of Sanitary Sewer Manhole Work in Connection with the Interstate Highway 43 Expansion Project

4) Adjourn

Dated: June 8, 2021

/s/ John Wirth, Mayor

Notice is hereby given that a quorum of other governmental bodies may be present at this meeting to present, discuss and/or gather information about a subject over which they have decision-making responsibility, although they will not take formal action thereto at this meeting.

Persons with disabilities requiring accommodations for attendance at this meeting should contact the City Clerk's Office at 262-236-2914, twenty-four (24) hours in advance of the meeting.

Any questions regarding this agenda may be directed to the City Administrator's Office at 262-236-2941, Monday through Friday, 8:00 AM – 4:30 PM



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Public Works/Engineering
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SEWER UTILITY DISTRICT COMMISSION

Tuesday, May 11, 2021

7:30 PM

Virtual and In-person

Minutes

- 1) Call to Order, Roll Call
Commissioner Wirth called the meeting to order at 7:30 PM.

Present:

Commissioner John Wirth
Commissioner Robert Strzelczyk
Commissioner Glenn Bushee
Commissioner Dale Mayr
Commissioner Jeffrey Hansher
Commissioner Mark Gierl
Commissioner Brian Parrish
Commissioner Kathleen Schneider
Commissioner Andrew Nerbun

Also present were City Administrator Jones, City Attorney Sajdak, Director of Public Works/City Engineer Lundeen, Deputy Director of Utilities Driscoll, Finance Director Krueger, and Administrative Assistant Deuster.

- 2) Approval of Meeting Minutes

- a. February 9, 2021 Minutes

RESULT: **Approved [Unanimous]**

MOVED BY: Commissioner Mayr

SECONDED BY: Commissioner Strzelczyk

AYES:	Wirth, Strzelczyk, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider, Nerbun
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- 3) Resolutions

Action requested: review and recommend approval

- a. **RESOLUTION 3842** A Resolution Approving a Policy Revision to the City of Mequon Inflow and Infiltration Reduction Program, and Authorizing Staff to Enter into a Funding Agreement with the Milwaukee Metropolitan Sewerage District

Deputy Director of Utilities Driscoll provided an update to the Commissioners on the agreement with MMSD to reduce inflow and infiltration in the sanitary sewer system to reduce overflows. The program policy was established in 2015 and includes clear water compliance inspections and addresses sewer lateral work. The policy was amended in 2020 to include grouting in addition to lining. Staff presented additional revisions to maximize participation. These revisions can be described in four sections, including inspections, performance measures, rehabilitation methods, and financial incentives along with a few clerical revisions. The most significant revision is adding sump pump (and new sump croc) installations as an eligible expense, consistent with the MMSD policy to reduce inflow from private property sources. In addition to the policy revision, staff requested authorization to enter into another funding agreement with the MMSD for sewer lateral work.

RESULT: Approved [Unanimous]
MOVED BY: Commissioner Strzelczyk
SECONDED BY: Commissioner Nerbun

AYES: Wirth, Strzelczyk, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider, Nerbun

- b. **RESOLUTION 3843** A Resolution Awarding a Contract to R.A. Smith, Inc., Brookfield, Wisconsin, for Sanitary Sewer Project Inspection Services in the Amount of \$58,801

RESULT: Approved [Unanimous]
MOVED BY: Commissioner Strzelczyk
SECONDED BY: Commissioner Nerbun

AYES: Wirth, Strzelczyk, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider, Nerbun

- c. **RESOLUTION 3844** A Resolution Awarding a Contract for Sanitary Sewer Rehabilitation Work in Various Locations to Visu-Sewer, Inc. of Pewaukee, Wisconsin in the Amount of \$189,186

RESULT: Approved [Unanimous]
MOVED BY: Commissioner Schneider
SECONDED BY: Commissioner Hansher

AYES: Wirth, Strzelczyk, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider, Nerbun

- d. **RESOLUTION 3845** A Resolution Awarding a Contract for Replacement of a Sanitary Force Main in County Line Road to Globe Contractors Inc., Pewaukee, Wisconsin, in the Amount of \$405,684

RESULT: **Approved [Unanimous]**
MOVED BY: Commissioner Strzelczyk
SECONDED BY: Commissioner Schneider

AYES: Wirth, Strzelczyk, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider,
 Nerbun

4) Adjourn

a. Motion to Adjourn at 7:41 PM.

RESULT: **Approved by Voice Acclamation [Unanimous]**
MOVED BY: Commissioner Bushee
SECONDED BY: Commissioner Strzelczyk

AYES: Wirth, Strzelczyk, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider,
 Nerbun

Respectfully Submitted,

Casey Deuster
Administrative Assistant



11333 N. Cedarburg Road
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www.ci.mequon.wi.us

Office of Sewer Utility District Commission

TO: Sewer Utility District Commission
FROM: Kevin Driscoll, Deputy Director of Utilities
DATE: May 18, 2021
SUBJECT: RESOLUTION 3847 A Resolution Authorizing City Staff to File the City of Mequon's Compliance Maintenance Annual Report (CMAR) for Calendar Year 2020, in Accordance with Requirements Under Wisconsin Administrative Code NR208

Background

As a state requirement for owning and operating a separate municipal storm sewer system that discharges to waters of the state, the City maintains a general Wisconsin Pollution Discharge Elimination System (WPDES) permit through the Wisconsin Department of Natural Resources (WDNR). The permit covers water quality, illicit discharges, public information and education, stormwater, and erosion control. In addition to an annual stormwater report, the City must also file a Compliance Maintenance Annual Report (CMAR) for the City's sanitary sewer system and any emergency sewer system overflows that may occur.

Analysis

The draft 2020 CMAR is attached for review and must be filed with WDNR by June 30. Part of the reporting requirement is that the governing body of the municipality must adopt an annual resolution stating that it has reviewed the report before it is filed each year. The report has a grading system for both financial management and collection systems. If a community falls below an overall grade point average of 3.00, scores less than a "C" in any individual CMAR section, or if Sanitary Sewer Overflows (SSOs) were reported in the year, the City must identify improvements to correct system deficiencies and improve a report's score. In 2020, the City continued its "A" grade for financial management and collection systems.

In 2020 the City reported SSOs as a result of wet weather in May at 11 locations, where 6 of these discharges occurred within the Ranch Road Lift Station "E" area. In 2020, the City began inflow and infiltration reduction work within the contributing areas to Lift Station E and completed a condition assessment that concluded that Lift Station E requires replacement.

In addition, condition assessments for Riverdale Park Lift Station "F" and Fieldwood Road Lift Station "G" are planned in an effort to optimize collection system operations. Both Lift Station F & Lift Station G contribute to Lift Station E. These areas are also priority areas for future sewer lateral work to reduce inflow and infiltration from private property sources. This sewer work continues efforts to better manage wet weather events and follows the construction of the East Trunk Relief Sewer project that reduces overflows and adds capacity for future growth.

Fiscal Impact

There is no fiscal impact to filing this report outside of staff time necessary for its preparation. Any potential projects identified must ultimately be approved by the Sanitary Sewer Utility Commission prior to proceeding.

Recommendation

It is staff's recommendation that the Sewer Utility District favorably endorse, and the Common Council approve Resolution to authorize staff to file this CMAR with the WDNR.

Attachments:

Exhibit A - 2020 CMAR_draft (PDF)

COMMON COUNCIL
OF THE
CITY OF MEQUON

RESOLUTION 3847

A Resolution Authorizing City Staff to File the City of Mequon's Compliance Maintenance Annual Report (CMAR) for Calendar Year 2020, in Accordance with Requirements Under Wisconsin Administrative Code NR208

A. It is an annual requirement under the Wisconsin Pollutant Discharge Elimination System (WPDES) permit issued by the Wisconsin Department of Natural Resources to file a Compliance Maintenance Annual Report (CMAR) for Mequon's wastewater collection system under Wisconsin Administrative Code NR208.

B. It is necessary to acknowledge that the governing body has reviewed the CMAR.

C. It is necessary to provide recommendations or an action response plan for any individual CMAR section within the annual report with a grade of "C" or less, an overall grade point of less than 3.0, or in a year where a Sanitary Sewer Overflow was reported.

BASED UPON THE FOREGOING RECITALS, IT IS RESOLVED by the Common Council of the City of Mequon that:

1. The City of Mequon's 2020 CMAR has been reviewed and staff is hereby authorized to file said report and recommendations.

2. While the City has an overall GPA of 4.00, the City will continue to evaluate its system and take necessary actions to maintain and improve the collection system which may include:

a. Continuation of current system improvements such as manhole installation, manhole cover replacement, mainline rehabilitation, and upgrades to force mains and lift stations.

b. Continued evaluation of sewer utility collection system energy efficiency and costs related to power for lift station system pumping, in reference to Section 6 of the CMAR.

Approved by: John Wirth, Mayor

Date Approved: June 8, 2021

I certify that the foregoing Resolution was adopted by the Common Council of the City of Mequon, Wisconsin, at a meeting held on June 8, 2021.

Caroline Fochs, City Clerk

Compliance Maintenance Annual Report

3.a.a

Mequon Sewage Collection System

Last Updated: Reporting For:
5/18/2021 2020

Financial Management

1. Provider of Financial Information

Name:

Kaitlyn Kreuger

Telephone:

(262) 236-2947

(XXX) XXX-XXXX

E-Mail Address
(optional):

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) ☐

○ No (40 points)

If No, please explain:

2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised?
Year:

2020

● 0-2 years ago (0 points) ☐○ 3 or more years ago (20 points) ☐

○ N/A (private facility)

2.3 Did you have a special account (e.g., CFWP 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)

0

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:

2020

● 1-2 years ago (0 points) ☐○ 3 or more years ago (20 points) ☐

○ N/A

If N/A, please explain:

3.2 Equipment Replacement Fund Activity

3.2.1 Ending Balance Reported on Last Year's CMAR

\$ 30,172.60

3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)

\$ 273.00

3.2.3 Adjusted January 1st Beginning Balance

\$ 29,899.60

3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)

+ \$ 100,000.00

Attachment: Exhibit A - 2020 CMAR_draft (RESOLUTION 3847 : Approving the Compliance Maintenance Annual Report to the Wisconsin

Compliance Maintenance Annual Report

3.a.a

Mequon Sewage Collection System

Last Updated: Reporting For:
5/18/2021 2020

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

- \$ 84,857.83

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

\$ 45,041.77

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.

In 2020, two crew vehicles (pick-up trucks) were replaced.

3.3 What amount should be in your Replacement Fund? \$ 200,000.00

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)?

o Yes

● No

If No, please explain.

In 2020, two crew vehicles (pick-up trucks) were replaced and the Sewer Utility Capital Budget has established a fund for Equipment Replacement with an annual allocation; for 2021 that amount is 50,000.

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. ☐ ☐

o No

Project #	Project Description	Estimated Cost	Approximate Construction Year
1	Generator (LS H)	60000	2023
2	Generator (LS K)	60000	2022
3	Generator (LS Q)	60000	2021
4	Annual Manhole Chimney Seal Project -Follows the Local Road Project-	75000	2021
5	Cedarburg Road Flow Equalization (2270-04-70)	175000	2022
6	Replacement on-site generator (LS V)	60000	2023
7	Lift station & force main Q Design and Construction	405000	2021
8	Lift station & force main R Design and Construction	225000	2023
9	Commercial Sewer Meter Improvements	10000	2021
10	Equipment Replacement	80000	2021
11	Sanitary Sewer Rehabilitation in Easement from CTH W to Oriole Lane (extended)	700000	2021
12	Annual Manhole Seal Project -Follows the Local Road Project-	70000	2022
13	Generator (LS P)	60000	2024
14	Lift Station Condition Assessments	25000	2022
15	Lift Station Condition Assessments	25000	2021
16	Lift Station Pump Replacment (Various locations)	100000	2021
17	Equipment Replacement - Sewer Maintenance Crew Vehicles (2 Pick-up Trucks)	100000	2030
18	Mequon Road Flow Equalization at w/s STH 57 Intersection	200000	2023

Compliance Maintenance Annual Report

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Mequon Sewage Collection System

Last Updated: Reporting For:
5/18/2021 2020

19	Heritage Estates Siphon Replacement Design Study	25000	2021
20	Replace Ranch Road Lift Station E	5,000,000	2022
21	Design to Replace Lift Station E	250,000	2021
22	Riverdale Park Lift Station "F" Capacity Improvements Design Study Report	50,000	2021
23	Fieldwood Road Lift Station "G" Condition Assessment	10,000	2021
24	Fieldwood Road Lift Station "T" Design Study Report	25,000	2021
25	Design Study Report - Solar Energy Feasibility Evaluation to Offset Lift Station Pump Costs	10,000	2021

5. Financial Management General Comments

None

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: 23

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	37,526	39
February	28,064	29
March	24,322	29
April	25,748	56
May	24,408	61
June	32,437	7
July	30,274	102
August	50,493	58
September	42,789	41
October	47,918	53
November	46,794	42
December	54,048	67
Total	444,821	584
Average	37,068	49

6.1.2 Comments:

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

Compliance Maintenance Annual Report

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Mequon Sewage Collection System

Last Updated: Reporting For:
5/18/2021 **2020**

☒ Variable Speed Drives

☐ Other:

6.2.2 Comments:

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

☐ No

☒ Yes

Year:

2019

By Whom:

Arch Electric

Describe and Comment:

Preliminary Feasibility Study to evaluate options for utility energy cost offset began in 2019 including solar installation, pending site selection.

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?

In addition to lift station condition assessments performed by professional consulting engineers, the Sewer Utility has established a Lift Station capital fund to replace stations with more efficient pumps. The City's Sewer Maintenance Crew also performs routine lift station inspections for vibration, noise, leaks to identify if stations have optimal performance and operations of if motors, pumps, valves, and bearings need to be repaired or replaced.

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

Attachment: Exhibit A - 2020 CMAR_draft (RESOLUTION 3847 : Approving the Compliance Maintenance Annual Report to the Wisconsin

Compliance Maintenance Annual Report

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Mequon Sewage Collection System

Last Updated: Reporting For:
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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:

Comply with WPDES permit for sanitary sewer overflows;
Minimize occurrence of preventable overflows;
Improve and maintain system reliability;
Provide adequate capacity to convey peak flow;
Manage infiltration and inflow; and
Protect collection system worker health and safety.

Did you accomplish them?

- ☒ Yes
- ☐ 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?

City Ordinance 86-IV

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY) 1996-11-12

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)]

Attachment: Exhibit A - 2020 CMAR_draft (RESOLUTION 3847 : Approving the Compliance Maintenance Annual Report to the Wisconsin

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Mequon Sewage Collection System

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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:

0

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

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	15.9	% of system/year
Root removal	0.6	% of system/year
Flow monitoring	10	% of system/year
Smoke testing	0	% of system/year
Sewer line televising	5.3	% of system/year
Manhole inspections	25.0	% of system/year
Lift station O&M	3	# per L.S./year
Manhole rehabilitation	1.1	% of manholes rehabbed
Mainline rehabilitation	1.2	% of sewer lines rehabbed

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Mequon Sewage Collection System

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Private sewer inspections % of system/year

Private sewer I/I removal % of private services

River or water crossings % of pipe crossings evaluated or maintained

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

In 2019, a study was completed that prioritized and identified over 3,000 laterals. Over 300 laterals were evaluated in 2020 with rehabilitation work planned in 2021, along with 1000 laterals planned for work in 2021/2022. Lift station condition assessments continued in 2020 and work is being planned. Annual sewer main rehabilitation work was completed in 2020.

3. Performance Indicators

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

32.79	Total actual amount of precipitation last year in inches
30.8	Annual average precipitation (for your location)
165.67	Miles of sanitary sewer
23	Number of lift stations
0	Number of lift station failures
0	Number of sewer pipe failures
8	Number of basement backup occurrences
1	Number of complaints
	Average daily flow in MGD (if available)
	Peak monthly flow in MGD (if available)
	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)
0.07	Sanitary sewer overflows (number/sewer mile/yr)
0.05	Basement backups (number/sewer mile)
0.01	Complaints (number/sewer mile)
	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
	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
0	5/17/2020 4:15:00 PM - 5/17/2020 6:15:00 PM	Lift Station "C" 11101 River Road, Mequon	Rain	48,000
1	5/17/2020 6:30:00 PM - 5/17/2020 9:00:00 PM	Lift Station "D" 11750 River Road, Mequon	Rain	99,000
2	5/17/2020 1:30:00 PM - 5/18/2020 3:00:00 AM	Lift Station "E" 2020 Ranch Road, Mequon	Rain	1,098,000

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Mequon Sewage Collection System

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3	5/17/2020 4:30:00 PM - 5/17/2020 11:30:00 PM	Lift Station "E" 2020 Ranch Road, Mequon	Rain	357,000
4	5/17/2020 5:30:00 PM - 5/17/2020 8:00:00 PM	Lift Station "E" 2020 Ranch Road, Mequon	Rain	225,000
5	5/17/2020 2:30:00 PM - 5/18/2020 3:00:00 AM	Lift Station "F" 12439 N. Circle Drive, Mequon	Rain	336,600
6	5/17/2020 4:00:00 PM - 6/17/2020 8:00:00 PM	Lift Station "G" 12701 Fieldwood Drive, Mequon	Rain	79,200
7	5/17/2020 4:15:00 PM - 5/17/2020 6:30:00 PM	Lift Station "H" 2932 Riverland Drive, Mequon	Rain	43,875
8	5/17/2020 5:00:00 PM - 5/17/2020 8:00:00 PM	Lift Station "J" 515 Cedar Lane, Mequon	Rain	30,000
9	5/17/2020 5:45:00 PM - 5/17/2020 6:15:00 PM	Lift Station "L" 606 Juniper Court, Mequon	Rain	9,750
10	5/17/2020 7:00:00 PM - 5/18/2020 3:00:00 AM	Lift Station "O" 9729 Tamerlane Drive, Mequon	Rain	127,350

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

What actions were taken, or are underway, to reduce or eliminate SSO or TFO occurrences in the future?

Sewer Lateral Work to reduce I/I, Sewer Main Rehabilitation (Grouting leaks and Lining deteriorated pipe), Replaced pumps at 4 lift stations in 2020 to increase pump capacity. Additional pump replacements planned for 2021. Lift Station E Condition assessment was completed, near term safety improvements were implemented and planning for station replacement is in progress.

5. Infiltration / Inflow (I/I)

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

☒ Yes

☐ No

If Yes, please describe:

During wet weather flow rates and lift station pump cycles increase.

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:

During wet weather flow rates and lift station pump cycles increase.

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

Continued with sewer mainline and manhole rehabilitation including grouting and lining, and continued with private property inflow and infiltration (PPI/I) reduction program.

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

Continued with sewer mainline and manhole rehabilitation including grouting and lining, and continued with PPI/I Reduction program.

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

Compliance Maintenance Annual Report

3.a.a

Mequon Sewage Collection System

Last Updated: Reporting For:
5/18/2021 2020

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)

Attachment: Exhibit A - 2020 CMAR_draft (RESOLUTION 3847 : Approving the Compliance Maintenance Annual Report to the Wisconsin

Compliance Maintenance Annual Report

3.a.a

Mequon Sewage Collection System

Last Updated: Reporting For:
5/18/2021 2020

Resolution or Owner's Statement

Name of Governing
Body or Owner:

City of Mequon Common Council

Date of Resolution or
Action Taken:

2021-06-08

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

Collection Systems: Grade = A

(Regardless of grade, response required for Collection Systems if SSOs were reported)

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

Attachment: Exhibit A - 2020 CMAR_draft (RESOLUTION 3847 : Approving the Compliance Maintenance Annual Report to the Wisconsin



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Mequon, WI 53092
Phone: 262-236-2913
Fax: 262-242-9655

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Office of Sewer Utility District Commission

TO: Sewer Utility District Commission
FROM: Kevin Driscoll, Deputy Director of Utilities
DATE: May 28, 2021
SUBJECT: RESOLUTION 3854 A Resolution Authorizing Execution of a State-Municipal Agreement Between the City of Mequon and the Wisconsin Department of Transportation (WisDOT) for the Completion of Sanitary Sewer Manhole Work in Connection with the Interstate Highway 43 Expansion Project

Background

In December 2020, WisDOT began the utility coordination process, as required to satisfy the legal requirements of Wisconsin Statute §84.063 and Administrative Rule Trans 220, for the Interstate Highway 43 expansion project. A routine utility coordination process between WisDOT and City of Mequon staff and City Water ensued to review this project, which includes widening I-43 from 4 lanes to 6, reconstructing the County Line Road interchange and constructing a new Highland Road interchange.

In February 2021, the process began to determine impacts to the existing sanitary sewers and manholes. In May, WisDOT staff provided final road profiles for the City of Mequon staff to concur on the necessary sanitary sewer manhole adjustments. This includes structure adjustments under 12-inches and repairs greater than 1-foot to match the new roadway profiles.

Analysis

During this process, a cost share agreement was also discussed. State statute §84.295(4m) established a cost share ratio of 90/10 for utility relocations in state rights-of-way due to freeway construction, where the state shall pay 90 percent of the eligible costs of the relocation of any municipal utility facilities required by the construction of any freeway undertaken by the department. The affected municipal utility shall pay the balance of such costs.

WisDOT will complete this sanitary manhole work as part of the state-let contract and will also provide inspection services. The City's Engineering Field Coordinator will make routine site visits to verify with the WisDOT Inspector the work adheres to specifications.

Fiscal Impact

If this agreement were not in place, the total utility obligation is estimated to cost \$26,000 for this sanitary sewer manhole work. This agreement allows the Sewer Utility to contribute 10% of an amount up to \$2,600 for total sanitary sewer project costs, as depicted in Exhibits A & B, as attached.

Recommendation

Staff recommends the Sewer Utility District Commission endorse and the Common Council approve entering into an agreement with the Wisconsin Department of Transportation for a 90/10 cost share of sanitary sewer manhole work that is to be completed as part of the I-43 freeway expansion contract.

Attachments:

Exhibit A - Highland Rd SMA Cost Summary (PDF)

Exhibit B - County Line Rd SMA Cost Summary (PDF)

COMMON COUNCIL
OF THE
CITY OF MEQUON

RESOLUTION 3854

A Resolution Authorizing Execution of a State-Municipal Agreement Between the City of Mequon and the Wisconsin Department of Transportation (WisDOT) for the Completion of Sanitary Sewer Manhole Work in Connection with the Interstate Highway 43 Expansion Project

RECITALS

A. The Wisconsin Department of Transportation (WisDOT) is planning to reconstruct the Interstate 43 corridor from 4 lanes to 6 lanes, which includes construction to change roadway profiles at Highland Road, Donges Bay Road, County Line Road and Port Washington Road.

B. WisDOT identifies the County Line Road Interchange Construction as Project 1229-04-74, and the Highland Road Interchange Construction as Project 1229-04-76.

C. State statute §84.295 (4m) established a cost share ratio of 90/10 for utility relocations in state rights of way due to freeway construction, where the state shall pay 90 percent of the eligible costs of the relocation of any municipal utility facilities required by the construction of any freeway undertaken by the department. The affected municipal utility shall pay the balance of such costs.

D. As a result of the 10 percent funding requirement by the municipality, the City of Mequon, as recommended by the Sewer Utility District Commission, must enter into a State/Municipal Agreement with WisDOT.

E. The Engineer's Opinion of Probable Construction Cost for the sanitary manhole adjustment work is \$26,000 to match roadway profiles in Highland Road, Donges Bay Road, County Line Road, and Port Washington Road.

F. WisDOT identified the 10 percent municipal share at a not-to-exceed amount of \$2,600 for the sanitary manhole adjustment work in Highland Road, Donges Bay Road, County Line Road, and Port Washington Road.

G. The Sewer Utility District Commission approved entering into a State/Municipal Agreement to include Sanitary Manhole Work as part of the WisDOT I-43 project at its meeting on June 8, 2021.

BASED UPON THE FOREGOING RECITALS, IT IS RESOLVED by the Common Council of the City of Mequon, Wisconsin that:

1. Staff is authorized to enter into State/Municipal Agreement to adjust sanitary

sewer manhole facilities for the freeway expansion project, subject to any clerical, technical and/or legal changes deemed necessary and appropriate by the City Attorney.

2. The Director of Public Works/City Engineer, Mayor and the City Clerk are authorized and directed to execute and deliver the same.

Approved by: John Wirth, Mayor

Date Approved: June 8, 2021

I certify that the foregoing Resolution was adopted by the Common Council of the City of Mequon, Wisconsin, at a meeting held on June 8, 2021.

Caroline Fochs, City Clerk

Exhibit A

STATE-MUNICIPAL AGREEMENT (SMA) COST SUMMARY

Utility: Mequon Sanitary Sewer Utility Utility ID: #3776
 Facility Type: Sanitary Manholes UA:
 Construction ID: 1229-04-76
 Project Title: Highland Road Sanitary Manhole Work
 Project Limits: Port Washington Road to Concordia Driveway
 HWY: IH43

Cost Share (10% Local Share / 90% State Share) per ss.84.295

Design Costs:

Item	Cost
Engineering - Consultant	\$0.00
Engineering - Municipality	\$0.00

Construction:

Item	Cost
Construction Costs	\$1,000.00
Inspection (WisDOT Inspector to be on site)	\$0.00
Construction Mangement	\$0.00
Municipality (Site Visit by City Field Engineering Coordinator)	\$0.00

Total: \$1,000.00

LOCAL SHARE (10%) \$100.00
 WISDOT SHARE (90%) \$900.00

Exhibit B

STATE-MUNICIPAL AGREEMENT (SMA) COST SUMMARY

Utility: Mequon Sanitary Sewer Utility
 Facility Type: Sanitary Manholes

Utility ID: #3776
 UA:

Construction ID: 1229-04-74
 Project Title: Highland Road Sanitary Manhole Work
 Project Limits: Port Washington Road and Donges Bay Road
 HWY: IH43

Cost Share (10% Local Share / 90% State Share) per ss.84.295

Design Costs:

Item	Cost
Engineering - Consultant	\$0.00
Engineering - Municipality	\$0.00

Construction:

Item	Cost
Construction Costs	\$25,000.00
Inspection (WisDOT Inspector to be on site)	\$0.00
Construction Mangement	\$0.00
Municipality (Site Visit by City Field Engineering Coordinator)	\$0.00
Total:	\$25,000.00

LOCAL SHARE (10%) \$2,500.00
 WISDOT SHARE (90%) \$22,500.00