

Compliance Maintenance Annual Report

Elm Grove Sewage Collection System

Last Updated: Reporting For:
6/8/2021 **2020**

Financial Management

1. Provider of Financial Information Name: <input type="text" value="Monica Hughes"/> Telephone: <input type="text" value="262-782-6700"/> (XXX) XXX-XXXX E-Mail Address (optional): <input type="text" value="mhughes@elmgrovewi.org"/>		
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"/> <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="2019"/> ● 0-2 years ago (0 points) <input type="checkbox"/> <input type="checkbox"/> ○ 3 or more years ago (20 points) <input type="checkbox"/> <input type="checkbox"/> ○ N/A (private facility) 2.3 Did you have a special account (e.g., CWF 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: <input type="text" value="2020"/> ● 1-2 years ago (0 points) <input type="checkbox"/> <input type="checkbox"/> ○ 3 or more years ago (20 points) <input type="checkbox"/> <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="1,326,370.00"/>	
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="1,326,370.00"/>	
3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	\$ <input type="text" value="188,103.00"/>	
	+	

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

\$ 0.00

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

\$ 1,514,473.00

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.

3.3 What amount should be in your Replacement Fund?

\$ 1.00

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	No particular Project is in the works at this time, but to cover the next 10 year period in which this report asks for, I wanted to point out that I would be part of the planning.	1	2028

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:

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	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	442	
February	386	
March	367	
April	357	
May	610	7
June	340	
July	300	
August	289	
September	333	
October	308	
November	331	
December	399	
Total	4,462	7
Average	372	7

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
- 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:

Describe and Comment:

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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?

Annual Inspection of pumps and panels.

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:

To continue to comply with the conditions of the WPDES Permit and minimize occurrence of preventable overflows. Minimize lifecycle ownership costs of collection system assets, maintain a level of customer service, improve and maintain reliability, reduce potential threat to human health from sewer overflows, provide adequate capacity to convey peak flow, manage infiltration and inflow.

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?

Code of Ordinances Chapter 232. Sewers

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

02/26/2013

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:

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- 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
- 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	<input style="width: 60px; text-align: right;" type="text" value="25"/>	% of system/year
Root removal	<input style="width: 60px; text-align: right;" type="text" value="2"/>	% of system/year
Flow monitoring	<input style="width: 60px; text-align: right;" type="text" value="100"/>	% of system/year
Smoke testing	<input style="width: 60px; text-align: right;" type="text" value="0"/>	% of system/year
Sewer line televising	<input style="width: 60px; text-align: right;" type="text" value="10"/>	% of system/year
Manhole inspections	<input style="width: 60px; text-align: right;" type="text" value="10"/>	% of system/year
Lift station O&M	<input style="width: 60px; text-align: right;" type="text" value="0"/>	# per L.S./year
Manhole rehabilitation	<input style="width: 60px; text-align: right;" type="text" value="2"/>	% of manholes rehabbed
Mainline rehabilitation	<input style="width: 60px; text-align: right;" type="text" value="1"/>	% of sewer lines rehabbed

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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:

Currently we have a work plan on hold, awaiting the funds from MMSD for private sewer lateral PPII rehabilitation. A total of 408' of 12" sewer main along Elm Grove Rd.

3. Performance Indicators

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

Total actual amount of precipitation last year in inches
 Annual average precipitation (for your location)
 Miles of sanitary sewer
 Number of lift stations
 Number of lift station failures
 Number of sewer pipe failures
 Number of basement backup occurrences
 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:

Lift station failures (failures/year)
 Sewer pipe failures (pipe failures/sewer mile/yr)
 Sanitary sewer overflows (number/sewer mile/yr)
 Basement backups (number/sewer mile)
 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 6:00:00 PM - 5/17/2020 6:45:00 PM	Approximately 815 Shadow Lawn Dr. on Watertown Plant Rd	Rain, Plugged Sewer, Flooding	39,000
1	5/17/2020 6:00:00 PM - 5/19/2020 1:30:00 PM	13700 Juneau Blvd	Rain, Plugged Sewer, Broken Sewer, Broken Sewer, Flooding	155,400

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

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

We addressed these concerns by televising and inspecting the main line sewers in this area. The first occurrence listed above proved to show a clear main for that stretch and follow up uncovered the possibility that someone may have opened up a manhole that allowed stormwater to enter. The second occurrence (13700 Juneau Blvd) uncovered a collapsed portion of pipe that was replaced within the 408' of new 12" SDR 35 sanitary main.

5. Infiltration / Inflow (I/I)

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

- Yes
- No

If Yes, please describe:

There tends to be significant I/I issues throughout the entire MMSD service area, though the Village of Elm Grove continues to be very active in maintenance and repair, therefore the Village has been experiencing positive improvements as an overall result.

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:

Although it has been quite an issue in the past, the past number of years have proven that measures taken with PP I/I projects, manhole rehabilitation and lining main line sewers have paid off and decreased the need for bypass pumping. There have been no SSO's in the previous hot spots of the past in the past 8 years. However, history shows larger 100 year storm events have been source issues which keeps the Public Works Dept. continually monitoring and investigating as needed.

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

I/I has improved significantly with the lining projects that have taken place over the last number of years which include lateral and main lining. Additional positive impact has been and continues to be made by DPW stormwater management practices and projects allowing for stormwater to properly convey to it's intended destination instead of ponding over areas where I/I has been problematic in the past.

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

As mentioned above, we currently have a work plan waiting for funding from MMSD that is focused on 2 neighborhoods that have shown issues with laterals. Additionally the Village has been on top of manhole rehabilitation, sewer main lining and rehabilitations projects. The DPW continues it's manhole inspections, televising and repairs coupled with stormwater improvements to continually improve the system.

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

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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:

Village of Elm Grove

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

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