Milwaukee, City

Last Updated: Reporting For: 6/18/2020 2019

	-	
_	22212	l Management
	11411(14	. Manademen

1. Provider of Financial Informati	on			
Name:	er Jaber			
Telephone:	860514		(XXX) XXX-XXXX	
E-Mail Address	3333-1		,	
(optional): njabe	er@milwaukee.gov			
<ul> <li>2. Treatment Works Operating Re</li> <li>2.1 Are User Charges or other re</li> <li>treatment plant AND/OR collection</li> <li>Yes (0 points) □□</li> <li>No (40 points)</li> </ul>	evenues sufficient to cover (	D&M expen	ses for your wastewater	
If No, please explain:				
2.2 When was the User Charge S Year:  2018  • 0-2 years ago (0 points) □□		urce(s) las	t reviewed and/or revised?	0
<ul><li>3 or more years ago (20 point</li><li>N/A (private facility)</li></ul>	`S)⊔⊔			
2.3 Did you have a special accordinancial resources available for replant and/or collection system?  • Yes (0 points)			•	
○ No (40 points)				
REPLACEMENT FUNDS [PUBLIC		ALL COMPL	ETE QUESTION 3]	
<ul> <li>3. Equipment Replacement Funds</li> <li>3.1 When was the Equipment Reference</li> <li>Year:</li> <li>2019</li> <li>1-2 years ago (0 points)□□</li> <li>3 or more years ago (20 point</li> <li>N/A</li> <li>If N/A, please explain:</li> </ul>	eplacement Fund last review	ed and/or	revised?	
3.2 Equipment Replacement Fur	id Activity			
3.2.1 Ending Balance Reporte	ed on Last Year's CMAR		\$ 300,000.00	
3.2.2 Adjustments - if necessary audit correction, withdrawal of exmaking up previous shortfall, etc.	xcess funds, increase		\$ 0.00	
3.2.3 Adjusted January 1st Begi	nning Balance		\$ 300,000.00	
3.2.4 Additions to Fund (e.g. po earned interest, etc.)	rtion of User Fee,	+	\$ 1,596,000.00	

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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*)	1,596,000.	00	
3.2.6 Ending Balance as of December 31st for CMAR Reporting Year \$	300,000.	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 repair	s from 3.2.5 a	bove.	
1) Rehab and/or repair pumps and generators and 2) Purchase of sever equipment: CCTV Pipeline Inspection System, jet nozzles, gas monitors and two vehicles and 3) Purchase of safety equipment and safety harnes	, sewer cleane	r vac-jet	0
3.3 What amount should be in your Replacement Fund? \$ 300,	000.00		0
Please note: If you had a CWFP loan, this amount was originally based of Assistance Agreement (FAA) and should be regularly updated as needed instructions and an example can be found by clicking the SectionInstruct header in the left-side menu.  3.3.1 Is the December 31 Ending Balance in your Replacement Fund about greater than the amount that should be in it (#3.3)?  • Yes  • No  If No, please explain.	. Further calcu ions link under	lation r Info	
<ul> <li>4. Future Planning</li> <li>4.1 During the next ten years, will you be involved in formal planning for or new construction of your treatment facility or collection system?</li> <li>Yes - If Yes, please provide major project information, if not already li</li> <li>No</li> </ul>			
Project Project Description #		Approximate Construction Year	
The City of Milwaukee has an ongoing sewer replacement and I/I reduction program. From 2019 to 2024, our six year Capital Improvement Program is \$201,000,000. This amount is for replacement of the City's combined, sanitary and storm sewers. Of that amount, approximately \$2,500,000 is budgeted for the sanitary sewer system rehabilitation each year.	2500000	2019	
5. Financial Management General Comments			
The City's budget is based on the calendar year, January 1st to Decembe	r 31st.		
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: 90			

By Whom:

Describe and Comment:

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**Electricity Consumed** Natural Gas Consumed

I	(kWh)	(therms)				
January	14,078	11				
February	14,597	11				
March	13,464	4				
April	13,631	5				
May	12,173	6				
June	10,657	10				
July	10,885	8				
August	10,408	6				
eptember	10,668	6				
October	11,813	3				
lovember	15,679	5				
December	15,829	30				
Total	153,882	105				
	ed Processes and Equip		ift stations	(Check	all that an	inly):
5.1.2 Comments  2 Energy Relate 5.2.1 Indicate e  Comminution  Extended Sh	ed Processes and Equip quipment and practices n or Screening naft Pumps ng and Recording umping em Pumps		ift stations	(Check	all that ap	oply):
2 Energy Relate 2.2.1 Indicate e Comminution Extended Sh Flow Meterin Pneumatic P SCADA Syste Self-Priming Submersible Variable Spe	ed Processes and Equip quipment and practices n or Screening naft Pumps ng and Recording umping em Pumps Pumps eed Drives	oment	ift stations	(Check	all that ap	oply):
2 Energy Relate 5.2.1 Indicate e Comminution Extended Sh Flow Meterin Pneumatic P SCADA Syste Self-Priming Submersible Variable Spe	ed Processes and Equip quipment and practices n or Screening naft Pumps ng and Recording umping em Pumps Pumps eed Drives	oment	ift stations	(Check	all that ap	ply):

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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?
- a) Monthly inspections and monitorings result in early identification of unexpected increases in energy usage, which can be investigated and corrected immediately.
- b) Annual pump rehabilitation project replaces old equipment with new potentially more energy efficient equipment.

Total Points Generated	
Score (100 - Total Points Generated)	100
Section Grade	Α

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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	
o 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	
o 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 efficiently collect and convey all of our customers' wastewater in the most cost effective	
manner while remaining in compliance with WPDES permits, Clean Water Ace, Wisconsin Law,	
and MMSD Rules and Regulations.	
Did you accomplish them?  ● Yes	
o No	
If No, explain:	
$oxtimes$ Organization [NR 210.23 (4) (b)] $\Box\Box$	
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 of Milwaukee Ordinance	
If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and	
revised? (MM/DD/YYYY) 1995-09-27	
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	l

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information for O&M  ☑ A description of rout  ☑ Capacity assessmen  ☑ Basement back asse ☑ Regular O&M trainin ☑ Design and Performan  What standards and pro the sewer collection sys property?	activities, investigation cine operation and main t program essment and correction guee Provisions [NR 210.2 ocedures are established tem, including building e, DNR NR 110 Standar	tenance activities (see question 2 below)	
Milwaukee Metropolit	tan Sewerage District G	Guidelines	
<ul> <li>☑ Response order, tim</li> <li>☑ Public notification pr</li> <li>☑ Training</li> <li>☑ Emergency operatio</li> <li>☑ Annual Self-Auditing o</li> <li>☑ Special Studies Last You</li> <li>☑ Infiltration/Inflow (I</li> <li>☑ Sewer System Evaluation</li> </ul>	esponse capability inclunel communication procuing and clean-up rotocols  n protocols and implem of your CMOM Program ear (check only those the lation Survey (SSES) and Capacity Managment	nentation procedures [NR 210.23 (5)] hat apply):	0
2. Operation and Maintena 2.1 Did your sanitary sev		aintenance program include the following	
maintenance activities? Concluded the Conclusion of the Conclusion	omplete all that apply a	and indicate the amount maintained.  % of system/year	
Root removal	0.5	% of system/year	
Flow monitoring	5.1	% of system/year	
Smoke testing	0	% of system/year	
Sewer line televising	34.7	% of system/year	
Manhole inspections	20.22	% of system/year	
Lift station O&M	12	# per L.S./year	
Manhole rehabilitation	1.14	% of manholes rehabbed	
Mainline rehabilitation	2.32	% of sewer lines rehabbed	
Private sewer inspections	0	% of system/year	

Milwaukee, City Last Updated: Reporting For: 2019 6/18/2020 Private sewer I/I % of private services removal River or water % of pipe crossings evaluated or maintained crossings Please include additional comments about your sanitary sewer collection system below: 3. Performance Indicators 3.1 Provide the following collection system and flow information for the past year. 46.0 Total actual amount of precipitation last year in inches 34.76 Annual average precipitation (for your location) 945 Miles of sanitary sewer 7 Number of lift stations 0 Number of lift station failures 0 Number of sewer pipe failures 36 Number of basement backup occurrences 4680 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) 0.00 Sanitary sewer overflows (number/sewer mile/yr) 0.04 Basement backups (number/sewer mile) 4.95 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 (MG) 0.0594 - 0.0594 0 9/13/2019 12:47:00 AM - South 92nd and W. Howard Avenue (Permit No. Rain 9/13/2019 1:36:00 AM 039) \*\* 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 occurences in the future? The City continues to 1. Implement aggressive inflow and infiltration reductions programs, 2. Clean and televise its sanitary sewer system to identify and prevent blockages. Infiltration / Inflow (I/I) 5.1 Was infiltration/inflow (I/I) significant in your community last year? Yes No. If Yes, please describe:

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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:

There are no I/I changes from the previous year.

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

1. Flow monitoring 2. Manhole inspections 3. Manhole rehab 4. Sanitary sewer lining projects 5. Working with MMSD on CMON and the 2020 Facilities Plan.

Total Points Generated	
Score (100 - Total Points Generated)	100
Section Grade	Α

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#### **Grading Summary**

WPDES No: 0047341

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS	
Financial	А	4	1	4	
Collection	А	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)