Compliance Maintenance Annual Report

La Crosse City

Last Updated: 5/7/2021 Reporting For: **2020**

Influent Flow and Loading

1. Monthly Average Flows and BOD Loadings

1.1 Verify the following monthly flows and BOD loadings to your facility.

Influent No. 701	Influent Monthly Average Flow, MGD	x	Influent Monthly Average BOD Concentration mg/L	x	8.34	=	Influent Monthly Average BOD Loading, lbs/day
January	5.3156	x	255	x	8.34	=	11,292
February	9.2729	x	270	x	8.34	=	20,891
March	9.9397	x	230	x	8.34	=	19,032
April	11.4769	x	184	x	8.34	=	17,606
May	9.9918	x	204	x	8.34	=	17,010
June	11.0281	x	216	x	8.34	=	19,827
July	10.2970	x	247	x	8.34	=	21,195
August	9.8135	x	236	x	8.34	=	19,321
September	9.5610	x	254	x	8.34	=	20,230
October	9.4955	x	263	x	8.34	=	20,856
November	8.7457	x	263	x	8.34	=	19,178
December	8.8558	x	328	x	8.34	=	24,199

2. Maximum Monthly Design Flow and Design BOD Loading

2.1 Verify the design flow and loading for your facility.

Design	Design Factor	x	%	=	% of Design
Max Month Design Flow, MGD	20	x	90	=	18
		x	100	=	20
Design BOD, lbs/day	29793	x	90	=	26813.7
		x	100	=	29793

2.2 Verify the number of times the flow and BOD exceeded 90% or 100% of design, points earned, and score:

	Months of Influent	Number of times flow was greater than 90% of	Number of times flow was greater than 100% of	Number of times BOD was greater than 90% of design	Number of times BOD was greater than 100% of design
January	1	0	0	0	0
February	1	0	0	0	0
March	1	0	0	0	0
April	1	0	0	0	0
May	1	0	0	0	0
June	1	0	0	0	0
July	1	0	0	0	0
August	1	0	0	0	0
September	1	0	0	0	0
October	1	0	0	0	0
November	1	0	0	0	0
December	1	0	0	0	0
Points per each		2	1	3	2
Exceedances		0	0	0	0
Points		0	0	0	0
Total Number of Points					**0**

0

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3. Flow Meter

3.1 Was the influent flow meter calibrated in the last year?

● Yes Enter last calibration date (MM/DD/YYYY): 2020-09-14

○ No

If No, please explain:

4. Sewer Use Ordinance

4.1 Did your community have a sewer use ordinance that limited or prohibited the discharge of excessive conventional pollutants ((C)BOD, SS, or pH) or toxic substances to the sewer from industries, commercial users, hauled waste, or residences?

● Yes

○ No

If No, please explain:

4.2 Was it necessary to enforce the ordinance?

● Yes

○ No

If Yes, please explain:

We used step enforcement on City Brewery, Great Lakes Cheese, S&S Cycle, and Metallics to maintain compliance.

5. Septage Receiving

5.1 Did you have requests to receive septage at your facility?

Septic Tanks	Holding Tanks	Grease Traps
● Yes	● Yes	● Yes
○ No	○ No	○ No

5.2 Did you receive septage at your faclity? If yes, indicate volume in gallons.

Septic Tanks

● Yes 2,154,931 gallons

○ No

Holding Tanks

● Yes 1,838,435 gallons

○ No

Grease Traps

● Yes 1,101,067 gallons

○ No

5.2.1 If yes to any of the above, please explain if plant performance is affected when receiving any of these wastes.

We sampled trucked waste at random on a quarterly basis to maintain baselines for those waste streams. We also require sampling for any new waste stream to be hauled in. The current grease trap receiving area is not the best and can cause some periodic operational issues; however, this will be resolved in the upcoming facility upgrade process.

6. Pretreatment

6.1 Did your facility experience operational problems, permit violations, biosolids quality concerns, or hazardous situations in the sewer system or treatment plant that were attributable to commercial or industrial discharges in the last year?

○ Yes

● No

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If yes, describe the situation and your community's response.

6.2 Did your facility accept hauled industrial wastes, landfill leachate, etc.?

- ● Yes
- ○ No

If yes, describe the types of wastes received and any procedures or other restrictions that were in place to protect the facility from the discharge of hauled industrial wastes.

Any hauled industrial waste is regulated by our pre-treatment program. The source industries are permitted and are required to comply with the sanitary sewer ordinance. We receive leachate from the La Crosse County Landfill through the sewer collection system, they are also regulated. We also accept hauled leachate from Dairyland Power which is regulated by pre-treatment.

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

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Effluent Quality and Plant Performance (BOD/CBOD)

1. Effluent (C)BOD Results

1.1 Verify the following monthly average effluent values, exceedances, and points for BOD or CBOD

Outfall No. 001	Monthly Average Limit (mg/L)	90% of Permit Limit > 10 (mg/L)	Effluent Monthly Average (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance
January	25	22.5	4	1	0	0
February	25	22.5	4	1	0	0
March	25	22.5	3	1	0	0
April	25	22.5	3	1	0	0
May	25	22.5	3	1	0	0
June	25	22.5	3	1	0	0
July	25	22.5	3	1	0	0
August	25	22.5	3	1	0	0
September	25	22.5	3	1	0	0
October	25	22.5	3	1	0	0
November	25	22.5	3	1	0	0
December	25	22.5	5	1	0	0
* Equals limit if limit is <= 10						
Months of discharge/yr				12		
Points per each exceedance with 12 months of discharge					7	3
Exceedances					0	0
Points					0	0
Total number of points						**0**

0

NOTE: For systems that discharge intermittently to state waters, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge. Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is 12/6 = 2.0

1.2 If any violations occurred, what action was taken to regain compliance?

2. Flow Meter Calibration

2.1 Was the effluent flow meter calibrated in the last year?

- ● Yes — Enter last calibration date (MM/DD/YYYY): 2020-09-14
- ○ No

If No, please explain:

3. Treatment Problems

3.1 What problems, if any, were experienced over the last year that threatened treatment?

None

4. Other Monitoring and Limits

4.1 At any time in the past year was there an exceedance of a permit limit for any other pollutants such as chlorides, pH, residual chlorine, fecal coliform, or metals?

- ○ Yes
- ● No

If Yes, please explain:

4.2 At any time in the past year was there a failure of an effluent acute or chronic whole effluent toxicity (WET) test?

- ○ Yes
- ● No

If Yes, please explain:

4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity?

- ○ Yes
- ○ No
- ● N/A

Please explain unless not applicable:

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

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Effluent Quality and Plant Performance (Total Suspended Solids)

1. Effluent Total Suspended Solids Results

1.1 Verify the following monthly average effluent values, exceedances, and points for TSS:

Outfall No. 001	Monthly Average Limit (mg/L)	90% of Permit Limit >10 (mg/L)	Effluent Monthly Average (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance	
January	30	27	8	1	0	0	
February	30	27	7	1	0	0	
March	30	27	6	1	0	0	
April	30	27	6	1	0	0	
May	30	27	8	1	0	0	
June	30	27	7	1	0	0	
July	30	27	7	1	0	0	
August	30	27	6	1	0	0	
September	30	27	6	1	0	0	
October	30	27	6	1	0	0	
November	30	27	7	1	0	0	**0**
December	30	27	6	1	0	0	
* Equals limit if limit is <= 10							
Months of Discharge/yr				12			
Points per each exceedance with 12 months of discharge:					**7**	**3**	
Exceedances					0	0	
Points					0	0	
Total Number of Points						**0**	

NOTE: For systems that discharge intermittently to state waters, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge.

Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is 12/6 = 2.0

1.2 If any violations occurred, what action was taken to regain compliance?

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

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Effluent Quality and Plant Performance (Phosphorus)

1. Effluent Phosphorus Results

1.1 Verify the following monthly average effluent values, exceedances, and points for Phosphorus

Outfall No. 001	Monthly Average phosphorus Limit (mg/L)	Effluent Monthly Average phosphorus (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	
January	1	0.520	1	0	
February	1	0.551	1	0	
March	1	0.364	1	0	
April	1	0.596	1	0	
May	1	0.549	1	0	
June	1	0.690	1	0	
July	1	0.855	1	0	
August	1	0.529	1	0	
September	1	0.601	1	0	
October	1	0.537	1	0	**0**
November	1	0.532	1	0	
December	1	0.401	1	0	
Months of Discharge/yr			12		
Points per each exceedance with 12 months of discharge:				**10**	
Exceedances				0	
Total Number of Points				**0**	

NOTE: For systems that discharge intermittently to waters of the state, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge.

Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is 12/6 = 2.0

1.2 If any violations occurred, what action was taken to regain compliance?

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

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Biosolids Quality and Management

1. Biosolids Use/Disposal

1.1 How did you use or dispose of your biosolids? (Check all that apply)

- ☒ Land applied under your permit
- ☐ Publicly Distributed Exceptional Quality Biosolids
- ☒ Hauled to another permitted facility
- ☐ Landfilled
- ☐ Incinerated
- ☐ Other

NOTE: If you did not remove biosolids from your system, please describe your system type such as lagoons, reed beds, recirculating sand filters, etc.

1.1.1 If you checked Other, please describe:

2. Land Application Site

2.1 Last Year's Approved and Active Land Application Sites

2.1.1 How many acres did you have?

6442 acres

2.1.2 How many acres did you use?

1002.3 acres

2.2 If you did not have enough acres for your land application needs, what action was taken?

2.3 Did you overapply nitrogen on any of your approved land application sites you used last year? **0**

- ○ Yes (30 points)
- ● No

2.4 Have all the sites you used last year for land application been soil tested in the previous 4 years?

- ● Yes
- ○ No (10 points)
- ○ N/A

3. Biosolids Metals

Number of biosolids outfalls in your WPDES permit:

3.1 For each outfall tested, verify the biosolids metal quality values for your facility during the last calendar year.

Outfall No. 003 - LIQUID SLUDGE

Parameter	80% of Limit	H.Q. Limit	Ceiling Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80% Value	High Quality	Ceiling
Arsenic		41	75	22.8		2.34			.689	<.072		3.4		2.77			0	0
Cadmium		39	85	12.1		2.12			.382	2.93		2.87		1.48			0	0
Copper		1500	4300	2740		540			536	640		659		621			1	0
Lead		300	840	<60.9		13.4			3.25	13.5		15.3		11.9			0	0
Mercury		17	57	<1.5		.209			<.086	<.084		.103		<.086			0	0
Molybdenum	60		75	31.5		9.59			3.17	13.8		27.7		18.3		0		0
Nickel	336		420	30		16.5			4.32	18.8		17.8		19.3		0		0
Selenium	80		100	<24.1		.517			.638	<.276		2.14		2.7		0		0
Zinc		2800	7500	4210		864			1060	1110		1150		1020			1	0

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Outfall No. 002 - CAKE SLUDGE

Parameter	80% of Limit	H.Q. Limit	Ceiling Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80% Value	High Quality	Ceiling
Arsenic		41	75	0		2.43		0		0		0		0			0	0
Cadmium		39	85	0		2.28		0		0		0		0			0	0
Copper		1500	4300	0		482		0		0		0		0			0	0
Lead		300	840	0		13		0		0		0		0			0	0
Mercury		17	57	0		.235		0		0		0		0			0	0
Molybdenum	60		75	0		8.3		0		0		0		0		0		0
Nickel	336		420	0		16.6		0		0		0		0		0		0
Selenium	80		100	0		<1.38		0		0		0		0		0		0
Zinc		2800	7500	0		858		0		0		0		0			0	0

3.1.1 Number of times any of the metals exceeded the high quality limits OR 80% of the limit for molybdenum, nickel, or selenium = 2

Exceedence Points

- ○ 0 (0 Points)
- ● 1-2 (10 Points)
- ○ > 2 (15 Points)

3.1.2 If you exceeded the high quality limits, did you cumulatively track the metals loading at each land application site? (check applicable box) **0**

- ○ Yes
- ○ No (10 points)
- ○ N/A - Did not exceed limits or no HQ limit applies (0 points)
- ● N/A - Did not land apply biosolids until limit was met (0 points)

3.1.3 Number of times any of the metals exceeded the ceiling limits = 0

Exceedence Points

- ● 0 (0 Points)
- ○ 1 (10 Points)
- ○ > 1 (15 Points)

3.1.4 Were biosolids land applied which exceeded the ceiling limit?

- ○ Yes (20 Points)
- ● No (0 Points)

3.1.5 If any metal limit (high quality or ceiling) was exceeded at any time, what action was taken? Has the source of the metals been identified?

When the high quality limit was exceeded sludge was resampled. Before sludge was land applied. Note sludge was not land applied exceeding high quality limit.

4. Pathogen Control (per outfall):

4.1 Verify the following information. If any information is incorrect, use the Report Issue button under the Options header in the left-side menu.

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Outfall Number:	**002**
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	03/01/2020 - 04/30/2020
Density:	297,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process

Outfall Number:	**003**
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	01/01/2020 - 02/29/2020
Density:	46,500
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	No
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process

Outfall Number:	**003**
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	03/01/2020 - 04/30/2020
Density:	38,300
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process

Outfall Number:	**003**
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	05/01/2020 - 06/30/2020
Density:	17,500
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process

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Outfall Number:	**003**
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2020 - 08/31/2020
Density:	0
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	No
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process

Outfall Number:	**003**
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	09/01/2020 - 10/31/2020
Density:	116,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process

Outfall Number:	**003**
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	11/01/2020 - 12/31/2020
Density:	267,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process

0

4.2 If exceeded Class B limit or did not meet the process criteria at the time of land application.

4.2.1 Was the limit exceeded or the process criteria not met at the time of land application?

○ Yes (40 Points)

● No

If yes, what action was taken?

5. Vector Attraction Reduction (per outfall):

5.1 Verify the following information. If any of the information is incorrect, use the Report Issue button under the Options header in the left-side menu.

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Outfall Number:	**002**
Method Date:	02/12/2020
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	>=38
Results (if applicable):	44.40

Outfall Number:	**002**
Method Date:	05/17/2020
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>=38
Results (if applicable):	44.60

Outfall Number:	**002**
Method Date:	08/03/2020
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>=38
Results (if applicable):	43.50

Outfall Number:	**002**
Method Date:	08/03/2020
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	>=38
Results (if applicable):	43.50

Outfall Number:	**002**
Method Date:	10/06/2020
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>=38
Results (if applicable):	48.20

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Outfall Number:	**002**
Method Date:	11/10/2020
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>=38
Results (if applicable):	49.90

0

5.2 Was the limit exceeded or the process criteria not met at the time of land application?

- ○ Yes (40 Points)
- ● No

If yes, what action was taken?

6. Biosolids Storage

6.1 How many days of actual, current biosolids storage capacity did your wastewater treatment facility have either on-site or off-site?

- ● >= 180 days (0 Points)
- ○ 150 - 179 days (10 Points)
- ○ 120 - 149 days (20 Points)
- ○ 90 - 119 days (30 Points)
- ○ < 90 days (40 Points)
- ○ N/A (0 Points)

0

6.2 If you checked N/A above, explain why.

7. Issues

7.1 Describe any outstanding biosolids issues with treatment, use or overall management:

Total Points Generated	10
Score (100 - Total Points Generated)	90
Section Grade	**B**

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Staffing and Preventative Maintenance (All Treatment Plants)

1. Plant Staffing

1.1 Was your wastewater treatment plant adequately staffed last year?

- ● Yes
- ○ No

If No, please explain:

Could use more help/staff for:

1.2 Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping?

- ● Yes
- ○ No

If No, please explain:

2. Preventative Maintenance

2.1 Did your plant have a documented AND implemented plan for preventative maintenance on major equipment items?

- ● Yes (Continue with question 2) ☐☐
- ○ No (40 points)☐☐

If No, please explain, then go to question 3:

2.2 Did this preventative maintenance program depict frequency of intervals, types of lubrication, and other tasks necessary for each piece of equipment?

- ● Yes
- ○ No (10 points)

2.3 Were these preventative maintenance tasks, as well as major equipment repairs, recorded and filed so future maintenance problems can be assessed properly?

- ● Yes
  - ○ Paper file system
  - ○ Computer system
  - ● Both paper and computer system
- ○ No (10 points)

0

3. O&M Manual

3.1 Does your plant have a detailed O&M and Manufacturer Equipment Manuals that can be used as a reference when needed?

- ● Yes
- ○ No

4. Overall Maintenance /Repairs

4.1 Rate the overall maintenance of your wastewater plant.

- ○ Excellent
- ○ Very good
- ● Good
- ○ Fair
- ○ Poor

Describe your rating:

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The La Crosse WWTP is an older facility and we continue to upgrade to ensure reliability. We'll go through a major upgrade starting Summer of 2021 which will touch most of the WWTP over several years. Included will be Biosolids management by installing a biosolids heat dryer and storage silo, low level phosphorus compliance through the addition of disc filters, and dewatering equipment to gain capacity within our digestion process which will give us the ability to handle more solids. We will also add gas collection and a methane engine for energy production with the goal of being energy neutral.

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

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Operator Certification and Education

1. Operator-In-Charge

1.1 Did you have a designated operator-in-charge during the report year?

- ● Yes (0 points)
- ○ No (20 points)

Name: JARED R GREENO

Certification No: 31667

0

2. Certification Requirements

2.1 In accordance with Chapter NR 114.56 and 114.57, Wisconsin Administrative Code, what level and subclass(es) were required for the operator-in-charge (OIC) to operate the wastewater treatment plant and what level and subclass(es) were held by the operator-in-charge?

Sub Class	SubClass Description	WWTP	OIC		
		Advanced	OIT	Basic	Advanced
A1	Suspended Growth Processes	X			X
A2	Attached Growth Processes				
A3	Recirculating Media Filters				
A4	Ponds, Lagoons and Natural				
A5	Anaerobic Treatment Of Liquid				
B	Solids Separation	X			X
C	Biological Solids/Sludges	X			X
P	Total Phosphorus	X			X
N	Total Nitrogen				
D	Disinfection	X			X
L	Laboratory	X			X
U	Unique Treatment Systems				
SS	Sanitary Sewage Collection	X	NA	X	NA

2.2 Was the operator-in-charge certified at the appropriate level and subclass(es) to operate this plant? (Note: Certification in subclass SS is required 5 years after permit reissuance and is basic level only.)

- ● Yes (0 points)
- ○ No (20 points)

0

3. Succession Planning

3.1 In the event of the loss of your designated operator-in-charge, did you have a contingency plan to ensure the continued proper operation and maintenance of the plant that includes one or more of the following options (check all that apply)?

- ☒ One or more additional certified operators on staff
- ☐ An arrangement with another certified operator
- ☐ An arrangement with another community with a certified operator
- ☐ An operator on staff who has an operator-in-training certificate for your plant and is expected to be certified within one year
- ☐ A consultant to serve as your certified operator
- ☐ None of the above (20 points)

If "None of the above" is selected, please explain:

0

4. Continuing Education Credits

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4.1 If you had a designated operator-in-charge, was the operator-in-charge earning Continuing Education Credits at the following rates?

OIT and Basic Certification:

- ○ Averaging 6 or more CECs per year.
- ○ Averaging less than 6 CECs per year.

Advanced Certification:

- ● Averaging 8 or more CECs per year.
- ○ Averaging less than 8 CECs per year.

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

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Financial Management

1. Provider of Financial Information

Name: Jared Greeno

Telephone: 608-789-7322 (XXX) XXX-XXXX

E-Mail Address (optional): greenoja@cityoflacrosse.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) ☐☐
- ○ 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: 2019

- ● 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., CWFP 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		$ 1,401,126.97
3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)		$ 0.00
3.2.3 Adjusted January 1st Beginning Balance		$ 1,401,126.97
3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	$ 483,224.22

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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) - $ 896,561.49

3.2.6 Ending Balance as of December 31st for CMAR Reporting Year $ 987,789.70

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.

New jetter/camera truck, new utility vehicles, Pump repair or replacements.

3.3 What amount should be in your Replacement Fund? $ 1,664,916.95

Please note: If you had a CWFP 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.

0

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.

We have continued to improve accuracy of our ERF list and have added many missing items to the list resulting in a larger minimum balance. We have budgeted for the necessary contribution to return the fund over the minimum in 2021.

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	Repair/rehab sanitary collection system	1,953,000	2021
2	Sanitary lift station electrical and control upgrades	733500	2022
3	Repair/rehab sanitary sewer collection system	365,000	2023
4	Sanitary lift station rehabilitation	1,370,000	2022
5	Treatment plant facility upgrades for low level phosphorus removal, biosolids management, methane production/energy capture.	62,000,000	2021
6	Repair/rehab sanitary sewer collection system	1,370,000	2022
7	Sanitary lift station rehabilitation	100,000	2024

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: 27

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	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	81,543	899
February	74,868	879
March	69,252	587
April	72,267	454
May	64,146	225
June	61,750	62
July	61,733	45
August	54,081	41
September	56,370	45
October	53,723	75
November	57,245	325
December	64,898	576
Total	**771,876**	**4,213**
Average	**64,323**	**351**

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?

Energy saving equipment is considered when planning projects or replacements.

7. Treatment Facility

7.1 Energy Usage

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

TREATMENT PLANT: Total Power Consumed/Month

	Electricity Consumed (kWh)	Total Influent Flow (MG)	Electricity Consumed/ Flow (kWh/MG)	Total Influent BOD (1000 lbs)	Electricity Consumed/ Total Influent BOD (kWh/1000lbs)	Natural Gas Consumed (therms)
January	487,920	164.78	2,961	350.05	1,394	8,498
February	435,920	268.91	1,621	605.84	720	7,380
March	235,720	308.13	765	589.99	400	8,519
April	400,200	344.31	1,162	528.18	758	5,718
May	429,240	309.75	1,386	527.31	814	4,112
June	449,000	330.84	1,357	594.81	755	2,747
July	496,160	319.21	1,554	657.05	755	629
August	490,880	304.22	1,614	598.95	820	391
September	474,440	286.83	1,654	606.90	782	780
October	471,360	294.36	1,601	646.54	729	940
November	411,960	262.37	1,570	575.34	716	3,350
December	439,800	274.53	1,602	750.17	586	4,245
Total	**5,222,600**	**3,468.24**		**7,031.13**		**47,309**
Average	**435,217**	**289.02**	**1,571**	**585.93**	**769**	**3,942**

7.1.2 Comments:

7.2 Energy Related Processes and Equipment

7.2.1 Indicate equipment and practices utilized at your treatment facility (Check all that apply):

- ☐ Aerobic Digestion
- ☒ Anaerobic Digestion
- ☒ Biological Phosphorus Removal
- ☐ Coarse Bubble Diffusers
- ☒ Dissolved O2 Monitoring and Aeration Control
- ☒ Effluent Pumping
- ☒ Fine Bubble Diffusers
- ☒ Influent Pumping
- ☒ Mechanical Sludge Processing
- ☒ Nitrification
- ☒ SCADA System
- ☒ UV Disinfection
- ☒ Variable Speed Drives
- ☐ Other:

7.2.2 Comments:

7.3 Future Energy Related Equipment

7.3.1 What energy efficient equipment or practices do you have planned for the future for your treatment facility?

Enhanced methane gas production to use as energy replacement. Energy efficiency upgrades to the BNR system.

8. Biogas Generation

8.1 Do you generate/produce biogas at your facility?

- ○ No
- ● Yes

If Yes, how is the biogas used (Check all that apply):

- ☒ Flared Off
- ☐ Building Heat
- ☒ Process Heat
- ☐ Generate Electricity
- ☐ Other:

9. Energy Efficiency Study

9.1 Has an Energy Study been performed for your treatment facility?

- ● No
- ○ Yes
  - ☐ Entire facility
    - Year:
    - By Whom:
    - Describe and Comment:
  - ☐ Part of the facility
    - Year:
    - By Whom:
    - Describe and Comment:

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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:

Goal is to clean 33% of the collection system annually.

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?

Sewer Use Ordinance

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY) 2017-07-22

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

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☒ 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

0

☒ 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 Managment 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	40.32	% of system/year
Root removal	1.32	% of system/year
Flow monitoring	.01	% of system/year
Smoke testing	0	% of system/year
Sewer line televising	4.44	% of system/year
Manhole inspections	40.32	% of system/year
Lift station O&M	108	# per L.S./year
Manhole rehabilitation	1.47	% of manholes rehabbed
Mainline rehabilitation	1.21	% of sewer lines rehabbed
Private sewer inspections	0	% of system/year
Private sewer I/I removal	.01	% of private services

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River or water crossings: .02 % of pipe crossings evaluated or maintained

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

We have allocated money to begin/hire a collection system analysis.

3. Performance Indicators

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

26.85	Total actual amount of precipitation last year in inches
33.5	Annual average precipitation (for your location)
202.44	Miles of sanitary sewer
27	Number of lift stations
0	Number of lift station failures
2	Number of sewer pipe failures
10	Number of basement backup occurrences
99	Number of complaints
9.88	Average daily flow in MGD (if available)
11.68	Peak monthly flow in MGD (if available)
20.68	Peak hourly flow in MGD (if available)

3.2 Performance ratios for the past year:

0.00	Lift station failures (failures/year)
0.01	Sewer pipe failures (pipe failures/sewer mile/yr)
0.00	Sanitary sewer overflows (number/sewer mile/yr)
0.05	Basement backups (number/sewer mile)
0.49	Complaints (number/sewer mile)
1.2	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
2.1	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	3/15/2020 10:00:00 AM - 3/16/2020 11:00:00 AM	4422 Mormon Coulee RD La Crossee WI 54601 south bound lane of Mormon Coulee Rd	Broken Sewer, Broken Sewer	500

** 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 2020 SSO occurred on the same 4422 Mormon Coulee Rd section as the breaks in 2019. We have found that the soils in this area are corrosive and are eating the pipe from the outside in. The forcemain is 2.5 miles long and is not cost effective to replace the entire forcemain. We have actively been working on a solution and have hired a company (very hard technology to find) from Canada to inspect the pipeline from the inside to determine wall thickness of the entire forcemain. A launch structure is needed to get the inspection tool into the forcemain. We also have to excavate in two places to replace "T's" with a "Y" and an elbow as the tool will not go past a "T". In December of 2020 we were able to install the underground fittings and the launching structure needed. Cleaning and inspection is to take place April 6th, 2021. Once complete we will receive analyzed data reports and plan a repair for the areas in poor condition.

5. Infiltration / Inflow (I/I)

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

- Yes

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○ No

If Yes, please describe:

Higher River stage levels in the spring and periodic rises contribute to our I&I.

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:

We replaced and/or lined a total of 12,905 feet of Sanitary sewer in 2020.

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

We line and replace sewer mains where ground water is an issue and rehab the manholes. We also conduct flow monitoring to identify the areas to focus our efforts for reducing I&I.

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

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Grading Summary

WPDES No: 0029581

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	A	4	3	12
BOD/CBOD	A	4	10	40
TSS	A	4	5	20
Phosphorus	A	4	3	12
Biosolids	B	3	5	15
Staffing/PM	A	4	1	4
OpCert	A	4	1	4
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS			**32**	**123**
GRADE POINT AVERAGE (GPA) = 3.84				

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:

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):

Influent Flow and Loadings: Grade = A

Effluent Quality: BOD: Grade = A

Effluent Quality: TSS: Grade = A

Effluent Quality: Phosphorus: Grade = A

Biosolids Quality and Management: Grade = B

Staffing: Grade = A

Operator Certification: Grade = A

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. = 3.84