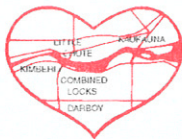


**DISTRICT DIRECTOR:**

Brian M. Helminger

**SERVING:**

Combined Locks  
Kaukauna  
Kimberly  
Little Chute  
Darboy S.D.



**COMMISSIONERS:**

David J. Casper, President  
Bruce M. Siebers, Vice-President  
Patrick E. Hennessey, Secretary  
Kevin P. Coffey, Commissioner  
John W. Sundelius, Commissioner

**Heart of the Valley**

**METROPOLITAN SEWERAGE DISTRICT**

801 THILMANY ROAD  
KAUKAUNA, WISCONSIN 54130  
(920) 766-5731 FAX (920) 766-5733  
[www.hvmsd.org](http://www.hvmsd.org)

**RESOLUTION NO. 212**

BE IT RESOLVED, that the Heart of the Valley Metropolitan  
Sewerage District Commission has reviewed and understands the  
2024 Compliance Maintenance Annual Report that is attached to this  
Resolution and will be submitted to the Wisconsin DNR.

**APPROVED** \_\_\_\_\_

**David J. Casper**  
**President**

**ATTEST** \_\_\_\_\_

**Patrick E. Hennessey**  
**Secretary**

The above Resolution was approved and adopted by the Heart of  
the Valley Metropolitan Sewerage District Commission on  
**June 10, 2025** by unanimous roll call vote.



# Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

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2024

## 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	6.3124	x	239	x	8.34	=	12,606
February	6.9121	x	231	x	8.34	=	13,306
March	6.4835	x	230	x	8.34	=	12,440
April	8.4134	x	185	x	8.34	=	12,958
May	7.5459	x	200	x	8.34	=	12,578
June	9.0216	x	158	x	8.34	=	11,883
July	9.3349	x	156	x	8.34	=	12,170
August	8.0412	x	192	x	8.34	=	12,891
September	5.3865	x	260	x	8.34	=	11,668
October	5.3351	x	280	x	8.34	=	12,453
November	8.0148	x	169	x	8.34	=	11,283
December	5.9210	x	238	x	8.34	=	11,750

### 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	11.9	x	90	=	10.71
		x	100	=	11.9
Design BOD, lbs/day	14651	x	90	=	13185.9
		x	100	=	14651

#### 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	1	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	1	0
Points		0	0	3	0
<b>Total Number of Points</b>					<b>3</b>



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<div></div> <p>6.2 Did your facility accept hauled industrial wastes, landfill leachate, etc.?</p> <p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p>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.</p> <div></div>	
---	--

Total Points Generated	3
Score (100 - Total Points Generated)	97
Section Grade	A



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If Yes, please explain:

May 29th there was a exceedance on the daily limit for residual chlorine. A rain event caused higher than normal bisulfite consumption with our investigation finding that the pump was partially air bound despite the SCADA level transducer signaling the tank was not empty. The remaining SBS in the tank was withdrawn and then directly connected to the SBS pump. The sodium hypochlorite feed was reduced and within an hour the chlorine residual was 0.00. The next morning the ordered tanker of SBS was delivered. SBS orders will be placed to arrive sooner to protect against transduced level drift during low tanks levels.

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:

<b>Total Points Generated</b>	<b>0</b>
<b>Score (100 - Total Points Generated)</b>	<b>100</b>
<b>Section Grade</b>	<b>A</b>



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## Effluent Quality and Plant Performance (Ammonia - NH3)

### 1. Effluent Ammonia Results

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

Outfall No. 001	Monthly Average NH3 Limit (mg/L)	Weekly Average NH3 Limit (mg/L)	Effluent Monthly Average NH3 (mg/L)	Monthly Permit Limit Exceed ance	Effluent Weekly Average for Week 1	Effluent Weekly Average for Week 2	Effluent Weekly Average for Week 3	Effluent Weekly Average for Week 4	Weekly Permit Limit Exceed ance
January	10	28	.395	0	.52	.46	.54	.18	0
February	10	28	.205	0	.12	.18	.24	.28	0
March	10	28	.248	0	.26	.3	.24	.2	0
April	11	29	.209	0	.16	.16	.24	.28	0
May	11	17	.414	0	.28	.28	.4	.22	0
June	4.4	11	.271	0	.24	.42	.22	.24	0
July	4.4	11	.191	0	.22	.16	.22	.14	0
August	4.4	11	.171	0	.2	.1	.18	.2	0
September	4.4	11	.467	0	.062	.468	.4	.46	0
October	18	17	.688	0	.82	.84	.78	.56	0
November	18	17	.232	0	.308	.22	.172	.228	0
December	18	17	.377	0	.22	.38	.42	.6	0
Points per each exceedance of Monthly average:									10
Exceedances, Monthly:									0
Points:									0
Points per each exceedance of weekly average (when there is no monthly average):									2.5
Exceedances, Weekly:									0
Points:									0
<b>Total Number of Points</b>									<b>0</b>

NOTE: Limit exceedances are considered for monthly OR weekly averages but not both. When a monthly average limit exists it will be used to determine exceedances and generate points. This will be true even if a weekly limit also exists. When a weekly average limit exists and a monthly limit does not exist, the weekly limit will be used to determine exceedances and generate points.

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

N/A

<b>Total Points Generated</b>	0
<b>Score (100 - Total Points Generated)</b>	100
<b>Section Grade</b>	<b>A</b>



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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:

### 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. 008 - Class B 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														0	0
Cadmium		39	85														0	0
Copper		1500	4300														0	0
Lead		300	840														0	0
Mercury		17	57														0	0
Molybdenum	60		75													0		0
Nickel	336		420													0		0
Selenium	80		100													0		0
Zinc		2800	7500														0	0

#### Outfall No. 003 - Class A 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		<5.3		<7.2			<10.1			7.4				0	0
Cadmium		39	85		.94		<.65			<.91			.61				0	0
Copper		1500	4300		379		471			470			303				0	0
Lead		300	840		18.1		22.1			17			11.9				0	0
Mercury		17	57		.21		.17			.26			.54				0	0
Molybdenum	60		75		28		20.1			18.2			26.5			0		0
Nickel	336		420		33.4		39.2			37.7			26.9			0		0
Selenium	80		100		5.5		<6.4			9			7.5			0		0
Zinc		2800	7500		926		1110			1100			774				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 = 0

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)

- Yes



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<ul style="list-style-type: none"><li>● No</li></ul> <p>If yes, what action was taken?</p> <div></div>	<b>0</b>
<p>6. Biosolids Storage</p> <p>6.1 How many days of actual, current biosolids storage capacity did your wastewater treatment facility have either on-site or off-site?</p> <ul style="list-style-type: none"><li>● &gt;= 180 days (0 Points)</li><li>○ 150 - 179 days (10 Points)</li><li>○ 120 - 149 days (20 Points)</li><li>○ 90 - 119 days (30 Points)</li><li>○ &lt; 90 days (40 Points)</li><li>○ N/A (0 Points)</li></ul> <p>6.2 If you checked N/A above, explain why.</p> <div></div>	<b>0</b>
<p>7. Issues</p> <p>7.1 Describe any outstanding biosolids issues with treatment, use or overall management:</p> <div>The full contents of both District storage tanks were land applied in 2024.</div>	

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



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The TEAMS database is used to generate work orders and track maintenance activities and history. Work orders are assigned to each equipment's specific asset number and then are entered into the TEAMS system upon completion.

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



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<div><input type="checkbox"/> An arrangement with another certified operator</div> <div><input type="checkbox"/> An arrangement with another community with a certified operator</div> <div><input type="checkbox"/> An operator on staff who has an operator-in-training certificate for your plant and is expected to be certified within one year</div> <div><input type="checkbox"/> A consultant to serve as your certified operator</div> <div><input type="checkbox"/> None of the above (20 points)</div> <div>If "None of the above" is selected, please explain:</div> <div></div>	<div>0</div>	
<div>4. Continuing Education Credits</div> <div>4.1 If you had a designated operator-in-charge, was the operator-in-charge earning Continuing Education Credits at the following rates?</div> <div>OIT and Basic Certification:</div> <div><div><input type="radio"/> Averaging 6 or more CECs per year.</div><div><input type="radio"/> Averaging less than 6 CECs per year.</div></div> <div>Advanced Certification:</div> <div><div><input checked="" type="radio"/> Averaging 8 or more CECs per year.</div><div><input type="radio"/> Averaging less than 8 CECs per year.</div></div>		

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



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

\$ 376,832.00

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

\$ 9,466,836.00

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.

ERF funded replacements of \$376,832 in 2024.

3.3 What amount should be in your Replacement Fund? \$ 9,466,836.00

0

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.

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	Effluent disk filters - The District has determined that effluent filtration will be necessary to meet its TMDL obligations for both TSS and phosphorus. Design, advertisement, and bidding are completed. Construction is nearing completion with filters anticipated to be online in May 2024.	\$16,694,944	2023
2	Interceptor Rehabilitation Project - includes application of acid resistant coatings to manhole structures and exposed concrete along with CIPP lining of the mainline interceptor.  Work begins spring 2024 with the project expected to take 2 construction seasons and be completed in Fall of 2025.	\$18,085,237	2024
3	Septage Receiving Station Upgrade  Receiving station is subject to severe concrete corrosion and overall degradation. Site constrictions require removal of 3 SNDR blowers from the cover so it can be removed and replaced. Fiberglass cover will replace current concrete cover and the blowers relocated permanently to remove the weight from the new fiberglass cover.  This project has now been bid with a substantially increased cost over what has been projected. The project was still accepted and is scheduled to begin construction in 6/2025.	\$1,236,419	2025



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- ☐ 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:

## 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?

The District does not own or operate any lift stations. We do have meter stations used for flow measurement and composite sampling for each member community.

## 7. Treatment Facility

### 7.1 Energy Usage

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



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

We have no definitive energy efficiency plans at this time.

## 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:

2016

By Whom:

UW Milwaukee

Describe and Comment:

Implemented various energy improvements that were suggested.

☐ Part of the facility

Year:

By Whom:

Describe and Comment:

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



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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:

☒ 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:

Antecedent Moisture Modeling for I/I analysis for 2024 - The District invested in a new computer model in 2024. The intent is to further and more accurately ID inflow and infiltration in the member communities. The I&I reduction efforts have been an on going program for years with the goal to eliminate and/or minimize clearwater intrusion from entering the sewer system.

## 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 type="text" value="50"/>	% of system/year
Root removal	<input type="text" value="0"/>	% of system/year
Flow monitoring	<input type="text" value="100"/>	% of system/year
Smoke testing	<input type="text" value="0"/>	% of system/year
Sewer line televising	<input type="text" value="20"/>	% of system/year
Manhole inspections	<input type="text" value="100"/>	% of system/year
Lift station O&M	<input type="text" value="0"/>	# per L.S./year



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☒ Yes

☐ No

If Yes, please describe:

I/I remains a long standing concern and the District continues its long standing I&I analysis and clear water reduction efforts.

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:

I&I is a long standing concern with the District. There were no SSO's or untreated releases in 2024.

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

None

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

The District had very little clear water intrusion before and will have near zero I&I when the interceptor rehabilitation project is completed.

<b>Total Points Generated</b>	<b>0</b>
<b>Score (100 - Total Points Generated)</b>	<b>100</b>
<b>Section Grade</b>	<b>A</b>



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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: Ammonia: Grade = A

Effluent Quality: Phosphorus: Grade = A

Biosolids Quality and Management: Grade = A

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. = 4.00**