

Permit Fact Sheet

General Information

Permit Number	WI-0021911-10-0
Permittee Name and Address	Village of Luxemburg P O Box 307 206 Maple, Luxemburg, WI 54217-0307
Permitted Facility Name and Address	Luxemburg Wastewater Pretreatment Facility N6599 Valley Road, Luxemburg, Wisconsin
Permit Term	July 01, 2026 to June 30, 2031
Discharge Location	Approved sites for land application
Annual Average Design Flow (MGD)	0.4 MGD
Industrial or Commercial Contributors	N/A
Plant Classification	A4 - Ponds, Lagoons and Natural Systems; SS - Sanitary Sewage Collection System
Approved Pretreatment Program?	N/A

Facility Description

The wastewater pretreatment facility consists of preliminary treatment (comminutor/bar screen), followed by a 2-cell aerated lagoon containing a submerged rock filter at the end of cell two, with discharge to a forcemain and into the Green Bay Metropolitan Sewerage District (GBMSD) collection system. Sludge from the lagoons will need to be removed approximately every 15 to 20 years and will be applied to agricultural land.

Substantial Compliance Determination

After a desk top review of all discharge monitoring reports, CMARs, land application reports, and an inspection on April 9, 2026, this facility has been found to be in substantial compliance with their current permit.

Compliance determination made by Laura Gerold, Wastewater Engineer, on April 9, 2026.

Sample Point Descriptions

Sample Point Designation		
Sample Point Number	Discharge Flow, Units, and Averaging Period	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
701	0.25 MGD (2025)	INFLUENT: Flow monitoring of discharge into the lagoon system for CMAR reporting and other tracking purposes
101	0.27 MGD (2025)	EFFLUENT: Flow monitoring of discharge into the Green Bay Metropolitan Sewerage District collection system for CMAR

Sample Point Designation		
Sample Point Number	Discharge Flow, Units, and Averaging Period	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
		reporting and other tracking purposes
002	N/A – No land application in previous permit term	LAND APPLICATION: Liquid sludge that accumulates in the treatment lagoons. Monitoring is required for Lists 1, 2, 3, & 4 parameters prior to land application.

Permit Requirements

1 Influent – Monitoring Requirements

1.1 Sample Point Number: 701- INFLUENT

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Flow Rate		MGD	Daily	Monthly Avg	
BOD ₅ , Total		mg/L	Monthly	24-Hr Flow Prop Comp	

1.1.1 Changes from Previous Permit:

Influent limitations and monitoring requirements were evaluated for this permit term and the following changes were made from the previous permit.

- **BOD₅, Total:** Monthly BOD monitoring was added to the permit.

1.1.2 Explanation of Limits and Monitoring Requirements

Monitoring of influent flow and BOD₅ is required by s. NR 210.04(2), Wis. Adm. Code, to assess wastewater strengths and volumes and to demonstrate the percent removal requirements in s. NR 210.05, Wis. Adm. Code, and in the Standard Requirements section of the permit.

2 Inplant - Monitoring and Limitations

2.1 Sample Point Number: 101- EFFLUENT TO GBMSD

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Flow Rate		MGD	Daily	Monthly Avg	

2.1.1 Changes from Previous Permit:

In-plant limitations and monitoring requirements were evaluated for this permit term and no changes were required in this permit section.

2.1.2 Explanation of Limits and Monitoring Requirements

The facility submits a CMAR annually, which includes a ponds section that evaluates leakage by comparing total monthly influent flows to total monthly effluent flows. Effluent flows to GBMSD are included in the permit for CMAR reporting and other tracking purposes.

3 Land Application - Monitoring and Limitations

Municipal Sludge Description						
Sample Point	Sludge Class (A or B)	Sludge Type (Liquid or Cake)	Pathogen Reduction Method	Vector Attraction Method	Reuse Option	Amount Reused/Disposed (Dry Tons/Year)
002	B	Liquid	Fecal Coliform	Incorporation and injection	Land application	No land application in previous permit term
Does sludge management demonstrate compliance? Yes.						
Is additional sludge storage required? No.						
Is Radium-226 present in the water supply at a level greater than 2 pCi/liter? No.						
Is a priority pollutant scan required? No.						

3.1 Sample Point Number: 002- LAGOON SLUDGE

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Arsenic Dry Wt	Ceiling	75 mg/kg	Once	Composite	Monitoring required in 2028. Limits apply to land application.
Arsenic Dry Wt	High Quality	41 mg/kg	Once	Composite	
Cadmium Dry Wt	Ceiling	85 mg/kg	Once	Composite	
Cadmium Dry Wt	High Quality	39 mg/kg	Once	Composite	
Copper Dry Wt	Ceiling	4,300 mg/kg	Once	Composite	
Copper Dry Wt	High Quality	1,500 mg/kg	Once	Composite	
Mercury Dry Wt	Ceiling	57 mg/kg	Once	Composite	
Mercury Dry Wt	High Quality	17 mg/kg	Once	Composite	

Monitoring Requirements and Limitations						
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes	
Molybdenum Dry Wt	Ceiling	75 mg/kg	Once	Composite		
Lead Dry Wt	Ceiling	840 mg/kg	Once	Composite		
Lead Dry Wt	High Quality	300 mg/kg	Once	Composite		
Selenium Dry Wt	Ceiling	100 mg/kg	Once	Composite		
Selenium Dry Wt	High Quality	100 mg/kg	Once	Composite		
Nickel Dry Wt	Ceiling	420 mg/kg	Once	Composite		
Nickel Dry Wt	High Quality	420 mg/kg	Once	Composite		
Zinc Dry Wt	Ceiling	7,500 mg/kg	Once	Composite		
Zinc Dry Wt	High Quality	2,800 mg/kg	Once	Composite		
Nitrogen, Total Kjeldahl		Percent	Once	Composite		
Nitrogen, Ammonium (NH4-N) Total		Percent	Once	Composite		
Phosphorus, Total		Percent	Once	Composite		
Phosphorus, Water Extractable		Percent	Once	Composite		
Potassium, Total Recoverable		Percent	Once	Composite		
PCB Total Dry Wt	Ceiling	50 mg/kg	Once	Composite		
PCB Total Dry Wt	High Quality	10 mg/kg	Once	Composite		
PFOA + PFOS		ug/kg	Once	Calculated		Monitoring required in 2028. Report the sum of PFOA and PFOS. See PFAS Permit Sections for more information.
PFAS Dry Wt			Once	Grab		Perfluoroalkyl and Polyfluoroalkyl Substances based on updated DNR PFAS List. See PFAS Permit Sections for more information.

3.1.1 Changes from Previous Permit:

Sludge limitations and monitoring requirements were evaluated for this permit term and the following changes were made from the previous permit. See additional explanation of limits under “Explanation of Limits and Monitoring Requirements” below.

PFAS –Monitoring is required once pursuant to s. NR 204.06(2)(b)9., Wis. Adm. Code.

Water Extractable Phosphorus (WEP) – Units changed to percent of total phosphorus (% of Tot P).

3.1.2 Explanation of Limits and Monitoring Requirements

Requirements for disposal, including land application of municipal sludge, are determined in accordance with ch. NR 204, Wis. Adm. Code. Ceiling and high-quality limits for metals in sludge are specified in s. NR 204.07(5), Wis. Adm. Code. Requirements for pathogens are specified in s. NR 204.07(6) and in s. NR 204.07 (7), Wis. Adm. Code, for vector attraction requirements. Limitations for PCBs are addressed in s. NR 204.07(3)(k), Wis. Adm. Code.

PFAS- The presence and fate of PFAS in municipal and industrial sludges is an emerging public health concern. EPA has developed a draft risk assessment to determine future land application rates and released this risk assessment in January of 2025. The department is evaluating this new information. Until a decision is made, the “Interim Strategy for Land Application of Biosolids and Industrial Sludges Containing PFAS” should be followed

Collecting sludge data on PFAS concentrations from a wide range of wastewater treatment facilities will help protect public health from exposure to elevated levels of PFAS and determine the department’s implementation of EPA’s recommendations. To quantitate this risk, PFAS sampling has been included in this WPDES permit pursuant to ss. NR 214.18(5)(b) and NR 204.06(2)(b)9., Wis. Adm. Code.

4 Schedules

4.1 Sludge Depth

Required Action	Due Date
Sludge Depth: Measure sludge depth of the two ponds and report findings.	01/01/2028

Attachments

N/A

Justification Of Any Waivers From Permit Application Requirements

No waivers requested or granted as part of this permit reissuance

Prepared By: Ashley Clark, Wastewater Specialist

Date: April 24, 2026