Permit Fact Sheet

General Information

Permit Number	WI-0049760-06-0
Permittee Name and Address	Village of Poplar PO Box 137, 4932 S Village Road, Poplar, WI 54864
Permitted Facility Name and Address	Village of Poplar 10435E Bayfield Road, Poplar, WI
Permit Term	October 01, 2026 to September 30, 2031
Discharge Location	West bank of Bardon Creek, approximately 423ft north of the centerline of Bayfield Road
Receiving Water	Bardon Creek, in the Amnicon and Middle Rivers Watershed, of the Lake Superior Drainage Basin in Douglas County
Stream Flow ($Q_{7,10}$)	0 cfs
Stream Classification	Limited Forage Fish (LFF) community, non-public water supply and recreational use
Discharge Type	Existing; Continuous
Annual Average Design Flow	0.057 MGD
Industrial or Commercial Contributors	None
Plant Classification	A4 - Ponds, Lagoons and Natural Systems; SS - Sanitary Sewage Collection System
Approved Pretreatment Program?	N/A

Facility Description

The Village of Poplar wastewater treatment facility consists of a series of aerated lagoons designed to treat wastewater from primarily domestic users. A main lift station pumps the flow to the facility through a flow metering manhole then to an inclined screen to remove solids. The first aerated lagoon is covered and split by a floating baffle into two cells (Cells 1 and 2). Effluent from the second cell of the first lagoon is directed to the second aerated, covered lagoon. The second lagoon is also split into two cells (Cells 3 and 4). Floating aerators provide aeration and mixing for the first four cells. Effluent from Cell 4 of the second lagoon is directed to the third aerated, covered lagoon which is partially mixed by floating aerators. The effluent from the third lagoon Cell 5 is directed to the final lagoon, Cell 6 which is a covered, non-aerated settling lagoon. The effluent from the settling lagoon is routed through a polishing reactor (media block and aeration) to enhance ammonia removal. Effluent is discharged on a continuous basis via Outfall 001 to the west bank of Bardon Creek, approx. 423ft north of Bayfield Road.

Substantial Compliance Determination

Enforcement During Last Permit: One Notice of Noncompliance (NON) was sent in May 2024 for a missing/late annual phosphorus report. The facility has completed all previously required actions as part of the enforcement process.

After a desktop review of all discharge monitoring reports, CMARs, land application reports, compliance schedule items, and a site visit on April 9, 2026, this facility has been found to be in substantial compliance with their current permit.

Compliance determination made by Eric de Venecia, Wastewater Engineer on April 16, 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	0.039 MGD (Avg. April 2020-January 2026)	Flow shall be measured through the influent manhole. Representative influent samples shall be collected on the downstream side of the screen prior to the first aerated lagoon.
001	0.039 MGD (Avg. April 2020-January 2026)	Representative samples shall be collected at the effluent manhole prior to discharge to Bardon Creek.
002	15 Metric Tons were land applied in 2022	Representative sludge samples shall be collected at a time and in a manner appropriate for the test required.

Permit Requirements

1 Influent – Monitoring Requirements

1.1 Sample Point Number: 701- Influent Manhole

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		MGD	Daily	Continuous	
BOD5, Total		mg/L	Weekly	24-Hr Flow Prop Comp	
Suspended Solids, Total		mg/L	Weekly	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.

- The sample frequency for flow rate has been changed from “continuous” to “daily” for DMR reporting purposes.

1.1.2 Explanation of Limits and Monitoring Requirements

Monitoring of influent flow, BOD_5 and total suspended solids 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 Surface Water - Monitoring and Limitations

2.1 Sample Point Number: 001- Effluent Manhole

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		MGD	Daily	Continuous	
BOD5, Total	Monthly Avg	20 mg/L	Weekly	24-Hr Flow Prop Comp	Interim limit. See the BOD and TSS Effluent Limits Schedule.
BOD5, Total	Weekly Avg	30 mg/L	Weekly	24-Hr Flow Prop Comp	Interim limit. See the BOD and TSS Effluent Limits Schedule.
BOD5, Total	Monthly Avg	15 mg/L	Weekly	24-Hr Flow Prop Comp	Limit effective April 1, 2031. See the BOD and TSS Effluent Limits Schedule.
BOD5, Total	Daily Max	30 mg/L	Weekly	24-Hr Flow Prop Comp	Limit effective April 1, 2031. See the BOD and TSS Effluent Limits Schedule.
Suspended Solids, Total	Monthly Avg	20 mg/L	Weekly	24-Hr Flow Prop Comp	
Suspended Solids, Total	Weekly Avg	30 mg/L	Weekly	24-Hr Flow Prop Comp	Interim limit. See the BOD and TSS Effluent Limits Schedule.
Suspended Solids, Total	Daily Max	30 mg/L	Weekly	24-Hr Flow Prop Comp	Limit effective April 1, 2031. See the BOD and TSS Effluent Limits Schedule.
pH Field	Daily Max	9.0 su	Weekly	Grab	
pH Field	Daily Min	6.0 su	Weekly	Grab	
Dissolved Oxygen	Daily Min	4.0 mg/L	Weekly	Grab	
E. coli	Geometric Mean - Monthly	126 #/100 ml	Weekly	Grab	Monitoring and limit effective May through September annually per the Effluent Limitations for E. coli Schedule.
E. coli	% Exceedance	10 Percent	Monthly	Calculated	Monitoring and limit effective May through September annually per the Effluent Limitations for E.

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
					coli Schedule. See the E. coli Percent Limit permit section. Enter the result in the DMR on the last day of the month.
Phosphorus, Total	Monthly Avg	6.1 mg/L	Weekly	24-Hr Flow Prop Comp	Interim limit. See the Phosphorus Variance - Implement Pollutant Minimization Plan permit section and the Phosphorus PMP Schedule.
Phosphorus, Total		lbs/day	Weekly	Calculated	Calculate the daily mass discharge of phosphorus on the same days phosphorus sampling occurs. Mass (lbs/day) = Concentration (mg/L) x Flow (MGD) x 8.34
Hardness, Total as CaCO3		mg/L	Quarterly	24-Hr Flow Prop Comp	
Nitrogen, Ammonia (NH3-N) Total		mg/L	Monthly	24-Hr Flow Prop Comp	Monitoring only January-December 2029.
Chloride		mg/L	Monthly	24-Hr Flow Prop Comp	Monitoring only January-December 2029.
Zinc, Total Recoverable		ug/L	Monthly	24-Hr Flow Prop Comp	Monitoring only January-December 2029.
Arsenic, Total Recoverable		ug/L	Once	24-Hr Flow Prop Comp	Monitoring only January-December 2030. See the Total Recoverable Arsenic Monitoring permit section.
PFOS		ng/L	1/ 2 Months	Grab	Monitoring only. See the PFOS/PFOA permit sections and the PFOS/PFOA Minimization Plan Determination of Need Schedule.
PFOA		ng/L	1/ 2 Months	Grab	Monitoring only. See the PFOS/PFOA permit sections and the PFOS/PFOA Minimization Plan Determination of Need Schedule.

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Nitrogen, Total Kjeldahl		mg/L	See Listed Qtr(s)	24-Hr Flow Prop Comp	Annual monitoring in rotating quarters. See the Nitrogen Series Monitoring permit section.
Nitrogen, Nitrite + Nitrate Total		mg/L	See Listed Qtr(s)	24-Hr Flow Prop Comp	Annual monitoring in rotating quarters. See the Nitrogen Series Monitoring permit section.
Nitrogen, Total		mg/L	See Listed Qtr(s)	Calculated	Annual monitoring in rotating quarters. See the Nitrogen Series Monitoring permit section. Total Nitrogen shall be calculated as the sum of reported values for Total Kjeldahl Nitrogen and Total Nitrite + Nitrate Nitrogen.

2.1.1 Changes from Previous Permit

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

- The sample frequency for flow has been changed from "continuous" to "daily" for DMR reporting purposes.
- BOD_5 and TSS limits have been updated; a compliance schedule has been included for meeting these limits.
- Disinfection will now be required May-September annually. Escherichia coli (E. coli) monitoring and limits have been added and become effective per the compliance schedule.
- The permittee has applied for an individual phosphorus variance (IPV) for this permit term. An IPV interim limit of 6.1 mg/L as a monthly average is included throughout the permit term.
- Quarterly monitoring for hardness has been added.
- The year in which ammonia and chloride monitoring is required has been updated to 2029. Additionally, monthly zinc monitoring for one year in calendar year 2029 has been added.
- One time arsenic monitoring has been added in calendar year 2030.
- PFOS/PFOA monitoring at a frequency of every other month has been added in accordance with s. NR 106.98(2), Wis. Adm. Code.
- Annual total nitrogen monitoring (TKN, NO_2+NO_3 and Total N**)**, in rotating quarters, has been added.

2.1.2 Explanation of Limits and Monitoring Requirements

Detailed discussions of limits and monitoring requirements can be found in the attached water quality-based effluent limits (WQBEL) memo, by Michael Polkinghorn, Water Resources Engineer, dated November 11, 2025.

Monitoring Frequencies – The Monitoring Frequencies for Individual Wastewater Permits guidance (April 12, 2021) recommends that standard monitoring frequencies be included in individual wastewater permits based on the size and type of the facility, in order to characterize effluent quality and variability, to detect events of noncompliance, and to ensure consistency in permits issued across the state. Guidance and requirements in administrative code were considered when determining the appropriate monitoring frequencies for pollutants that have final effluent limits in effect during this permit term.

Expression of Limits – In accordance with the federal regulation 40 CFR 122.45(d) and s. NR 205.065, Wis. Adm. Code, limits in this permit are to be expressed as weekly average and monthly average limits whenever practicable.

Disinfection and E. coli – Revisions to bacteria surface water quality criteria to protect recreational uses and accompanying E. coli WPDES permit implementation procedures became effective May 1, 2020. Section NR 102.04(5)(a), Wis. Adm. Code, states that all surface waters shall be suitable for recreational use and meet the E. coli criteria established to protect this use. Section NR 102.04(5)(b), Wis. Adm. Code, states that exceptions to the disinfection requirement can be made if the Department determines, in accordance with the procedures specified in s. NR 210.06(3), Wis. Adm. Code, that disinfection is not required to meet water quality criteria. As part of the reissuance process, the requirements for disinfection were reviewed under s. NR 210.06(3), Wis. Adm. Code.

It was determined that the permittee is required to disinfect, during the months of May – September each year. At the end of the compliance schedule, disinfection requirements and E. coli limits of 126 #/100 mL as a monthly geometric mean that may not be exceeded and 410 #/100 mL as a daily maximum that may not be exceeded more than 10 percent of the time in any calendar month will apply. Monitoring is not required until the limit becomes effective at the end of the compliance schedule.

Phosphorus – The permittee has applied for an individual phosphorus variance in accordance with s. 283.15, Wis. Stats. Conditions for this variance include maintaining phosphorus effluent concentrations below the interim limit of 6.1 mg/L as a monthly average, implementing the phosphorus pollutant minimization program (PMP) plan dated December 2024, continued optimization for control of phosphorus, and calculating, reporting and tracking phosphorus mass discharge. If approved by EPA, compliance with state water quality standards would be met through the interim limit along with all additional phosphorus variance provisions.

Hardness – Quarterly hardness monitoring was added because of the relationship between hardness and daily maximum limits based on acute toxicity criteria.

Ammonia, Chloride and Zinc – Monthly monitoring for one year (2029) is included in the permit in order to have sufficient data to determine the need for limits at the next permit reissuance.

Arsenic – The sample that was collected for the permit reissuance application had a limit of detection (LOD) of 4.2 µg/L which is greater than the most stringent calculated limit of 2.66 µg/L based on the human cancer criteria (HCC). Monitoring for total recoverable arsenic is required one time in 2030. The permittee must use an approved analytical test method for total recoverable arsenic such that the LOD is less than or equal to 2.66 µg/L in order to determine the need for arsenic limits at the next permit reissuance in accordance with s. NR 200.027(1), Wis. Adm. Code. The permittee may then use this total recoverable arsenic monitoring data for the next permit reissuance application.

PFOS and PFOA – NR 106 Subchapter VIII - Permit Requirements for PFOS and PFOA Dischargers became effective on August 1, 2022. Pursuant to s. NR 106.98(3)(b), Wis. Adm. Code, the Department evaluated the need for PFOS and PFOA monitoring taking into consideration the presence of potential PFOS or PFOA industrial wastes, remediation sites and other potential sources of PFOS or PFOA. Every other month monitoring is included in the permit in accordance with s. NR 106.98(2)(c), Wis. Adm. Code.

Total Nitrogen Monitoring (TKN, NO_2+NO_3, and Total N) – The Department has included effluent monitoring for total nitrogen in the permit through the authority under s. 283.55(1)(e), Wis. Stats. Testing is required during the following quarters: October – December 2026; July – September 2027; April – June 2028; January – March 2029; and October – December 2030.

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; Drying with stabilized solids	Land Application	0.04 (estimate of annual sludge accumulation)
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? **N/A**						

3.1 Sample Point Number: 002- Sludge Outfall

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Solids, Total		Percent	Once	Composite	
Arsenic Dry Wt	Ceiling	75 mg/kg	Once	Composite	
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	
Lead Dry Wt	Ceiling	840 mg/kg	Once	Composite	
Lead Dry Wt	High Quality	300 mg/kg	Once	Composite	
Mercury Dry Wt	Ceiling	57 mg/kg	Once	Composite	
Mercury Dry Wt	High Quality	17 mg/kg	Once	Composite	
Molybdenum Dry Wt	Ceiling	75 mg/kg	Once	Composite	
Nickel Dry Wt	Ceiling	420 mg/kg	Once	Composite	
Nickel Dry Wt	High Quality	420 mg/kg	Once	Composite	
Selenium Dry Wt	Ceiling	100 mg/kg	Once	Composite	
Selenium Dry Wt	High Quality	100 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	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Nitrogen, Total Kjeldahl		Percent	Once	Composite	
Nitrogen, Ammonium (NH4-N) Total		Percent	Once	Composite	
Phosphorus, Total		Percent	Once	Composite	
Phosphorus, Water Extractable		% of Tot P	Once	Composite	
Potassium, Total Recoverable		Percent	Once	Composite	
PCB Total Dry Wt	Ceiling	50 mg/kg	Once	Composite	Monitoring required in 2027. See Sludge Analysis for PCBs and the Standard Requirements permit section for Monitoring and Calculating PCB Concentrations in Sludge.
PCB Total Dry Wt	High Quality	10 mg/kg	Once	Composite	Monitoring required in 2027. See Sludge Analysis for PCBs and the Standard Requirements permit section for Monitoring and Calculating PCB Concentrations in Sludge.
PFOA + PFOS		ug/kg	Once	Calculated	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.

- The year in which PCB monitoring is required has been updated to 2027.
- Monitoring for PFAS is required once during the permit term pursuant to s. NR 204.06(2)(b)9., Wis. Adm. Code.

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) for vector attraction requirements. Limitations for PCBs are addressed in s. NR 204.07(3)(k). Radium requirements are addressed in s. NR 204.07(3)(n).

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 Phosphorus Pollutant Minimization Program

As a condition of the variance to the water quality-based effluent limitation (WQBEL) for phosphorus granted in accordance with s. 283.15, Wis. Stats., the permittee shall implement the Phosphorus PMP including any subsequent updates.

Required Action	Due Date
Annual Phosphorus Progress Report: Submit an annual progress report that shall discuss which phosphorus pollutant minimization measures have been implemented during the prior calendar year. The report shall include an analysis of trends in weekly average, monthly average and annual total influent and effluent phosphorus concentrations and mass discharge of phosphorus based on phosphorus sampling and flow data. The report shall provide an update on the permittee's: (1) progress in implementing pollutant minimization measures, operational improvements, and minor facility modifications to optimize reductions in phosphorus discharges and, (2) status of evaluating feasible alternatives for meeting phosphorus WQBELs. Note that the monthly average interim limitation listed in the permit's Surface Water section remains enforceable until new enforceable limits are established in the next permit reissuance. The first annual phosphorus progress report is to be submitted by the Date Due.	03/31/2027
Annual Phosphorus Progress Report #2: Submit a phosphorus progress report as defined above for the previous calendar year.	03/31/2028
Annual Phosphorus Progress Report #3: Submit a phosphorus progress report as defined above for the previous calendar year.	03/31/2029
Annual Phosphorus Progress Report #4: Submit a phosphorus progress report as defined above for the previous calendar year.	03/31/2030
Final Phosphorus Report: Submit a final report documenting the success in reducing phosphorus concentrations in the effluent, as well as the anticipated future reduction in phosphorus sources and phosphorus effluent concentrations. The report shall summarize phosphorus pollutant minimization activities that have been implemented during the current permit term and state which, if any, pollutant	03/31/2031

minimization activities from the approved pollutant minimization program plan were not pursued and why. The report shall include an analysis of trends in monthly and annual total influent and effluent phosphorus concentrations based on phosphorus sampling during the current permit term. The permittee shall also re-evaluate all available compliance options for meeting the final phosphorus WQBELs. If the report concludes Adaptive Management will be implemented, the submittal shall include a completed Watershed Adaptive Management Request Form 3200-139 and an adaptive management plan. If the report concludes water quality trading will be used, the submittal shall include a Water Quality Trading Plan. Additionally, if the permittee intends to seek to re-apply for a phosphorus variance per s. 283.15, Wis. Stats for the reissued permit, a detailed pollutant minimization program plan outlining the pollutant minimization activities proposed for the upcoming permit term should be submitted along with the final report.	
Annual Phosphorus Progress Reports After Permit Expiration: In the event that this permit is not reissued by the date the permit expires, the permittee shall continue to submit reports for the previous calendar year following the due date of annual phosphorus progress reports listed above. Annual phosphorus progress reports shall include information as defined above.	

4.1.1 Explanation of Schedule

Phosphorus Pollutant Minimization Program – This schedule is to be implemented as a condition of the permittee's variance to the water quality standards for phosphorus. Annual phosphorus progress reports update the Department on the progress made in implementing the Pollutant Minimization Program Plan as well as quantifying reductions achieved through plant optimization and from contributing sources within the collection system.

4.2 Disinfection and Effluent Limitations for E. coli

The permittee shall install disinfection treatment and comply with surface water limitations for E. coli as specified. No later than 14 days following each compliance date, the permittee shall notify the Department in writing of its compliance or noncompliance. If a submittal is required, a timely submittal fulfills that requirement.

Required Action	Due Date
Progress Report: The permittee shall submit a progress report on development and submittal of a facility plan for upgrades to meet disinfection requirements and E. coli limits.	06/30/2027
Submit Facility Plan: The permittee shall submit a Facility Plan per s. NR 110.09, Wis. Adm. Code for meeting disinfection requirements and complying with E. coli surface water limitations. The permittee may submit an abbreviated facility plan if the Department determines that the modifications are minor.	04/30/2028
Final Plans and Specifications: The permittee shall submit final construction plans to the Department for approval pursuant to ch. NR 108, Wis. Adm. Code, specifying treatment plant upgrades that must be constructed to meet disinfection requirements per s. NR 210.06(1), Wis. Adm Code, achieve compliance with final E. coli limitations, and a schedule for completing construction of the upgrades by the complete construction date specified below.	03/31/2029
Treatment Plant Upgrade to Meet Limitations: The permittee shall initiate bidding, procurement, and/or construction of the project. The permittee shall obtain approval of the final construction plans and schedule from the Department pursuant to s. 281.41. Stats., prior to initiating activities defined as construction under ch. NR 108, Wis. Adm. Code. Upon approval of the final construction plans and schedule by the Department pursuant to s. 281.41, Stats., the permittee shall construct the treatment	09/30/2029

plant upgrades in accordance with the approved plans and specifications.	
Construction Upgrade Progress Report: The permittee shall submit a progress report on construction upgrades.	09/30/2030
Complete Construction: The permittee shall complete construction of wastewater treatment system upgrades.	03/31/2031
Achieve Compliance: The permittee shall achieve compliance with final E. coli limitations.	04/30/2031

4.2.1 Explanation of Schedule

Disinfection and Effluent Limitations for E. coli – A compliance schedule is included in the permit to provide time for the permittee to investigate options for meeting new E. coli water quality-based effluent limits while coming into compliance with the limits as soon as reasonably possible. Limits become effective May 1, 2031.

4.3 PFOS/PFOA Minimization Plan Determination of Need

Required Action	Due Date
Report on Effluent Discharge: Submit a report on effluent PFOS and PFOA concentrations and include an analysis of trends in monthly and annual average PFOS and PFOA concentrations. This analysis should also include a comparison to the applicable narrative standard in s. NR 102.04(8)(d), Wis. Adm. Code. This report shall include all additional PFOS and PFOA data that may be collected including any influent, intake, in-plant, collection system sampling, and blank sample results.	09/30/2027
Report on Effluent Discharge and Evaluation of Need: Submit a final report on effluent PFOS and PFOA concentrations and include an analysis of trends in monthly and annual average PFOS and PFOA concentrations of data collected over the last 24 months. The report shall also provide a comparison on the likelihood of the facility needing to develop a PFOS/PFOA minimization plan. This report shall include all additional PFOS and PFOA data that may be collected including any influent, intake, in-plant, collection system sampling, and blank sample results. The permittee shall also submit a request to the department to evaluate the need for a PFOS/PFOA minimization plan. If the Department determines a PFOS/PFOA minimization plan is needed based on a reasonable potential evaluation, the permittee will be required to develop a minimization plan for Department approval no later than 90 days after written notification was sent from the Department. The Department will modify or revoke and reissue the permit to include PFOS/PFOA minimization plan reporting requirements along with a schedule of compliance to meet WQBELs. Effluent monitoring of PFOS and PFOA shall continue as specified in the permit until the modified permit is issued. If, however, the Department determines there is no reasonable potential for the facility to discharge PFOS or PFOA above the narrative standard in s. NR 102.04(8)(d), Wis. Adm. Code, no further action is required and effluent monitoring of PFOS and PFOA shall continue as specified in the permit.	09/30/2028

4.3.1 Explanation of Schedule

PFOS/PFOA Minimization Plan Determination of Need – As stated above, ch. NR 106 Subchapter VIII – Permit Requirements for PFOS and PFOA Dischargers became effective on August 1, 2022. Section NR 106.98, Wis. Adm. Code, specifies steps to generate data in order to determine the need for reducing PFOS and PFOA in the discharge. Data

generated per the effluent monitoring requirements will be used to determine the need for developing a PFOS/PFOA minimization plan. As part of the schedule, the permittee is required to submit two annual Reports on Effluent Discharge.

If the Department determines that a minimization plan is needed, the permit will be modified or revoked/reissued to include additional requirements.

4.4 BOD and TSS Effluent Limits

The compliance schedule requires the permittee to achieve compliance by the specified date.

Required Action	Due Date
Report on Effluent Discharges: The permittee shall prepare and submit to the Department for approval a report on effluent discharges. The report shall include an evaluation of collected effluent data and the facility's ability to comply with the final Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS) limits. The report shall conclude whether current treatment, operational improvements, or a facility upgrade will result in compliance with the final BOD and TSS limits. FACILITY PLAN - If the Report on Effluent Discharges concludes that current treatment or operational improvement does not result in compliance with the final BOD and TSS limits and a facility upgrade is required, the permittee shall initiate development of a facility plan for meeting final BOD and TSS limits and comply with the remaining required actions in this schedule.	06/30/2027
Submit Facility Plan: The permittee shall submit a Facility Plan per s. NR 110.09, Wis. Adm. Code, for complying with the BOD and TSS limits. The permittee may submit an abbreviated facility plan if the Department determines that the modifications are minor.	04/30/2028
Final Plans and Specifications: The permittee shall submit final construction plans to the Department for approval pursuant to ch. NR 108, Wis. Adm. Code, specifying treatment plant upgrades that must be constructed to achieve compliance with final BOD and TSS limits, and a schedule for completing construction of the upgrades by the complete construction date specified below.	03/31/2029
Treatment Plant Upgrade to Meet Limits: The permittee shall initiate bidding, procurement, and/or construction of the project. The permittee shall obtain approval of the final construction plans and schedule from the Department pursuant to s. 281.41, Wis. Stats., prior to initiating activities defined as construction under ch. NR 108, Wis. Adm. Code. Upon approval of the final construction plans and schedule, the permittee shall construct the treatment plant upgrades in accordance with the approved plans and specifications.	09/30/2029
Construction Upgrade Progress Report: The permittee shall submit a progress report on construction upgrades.	09/30/2030
Complete Construction: The permittee shall complete construction of the wastewater treatment system upgrades.	03/31/2031
Achieve Compliance: The permittee shall achieve compliance with the final BOD and TSS limits.	04/01/2031

4.4.1 Explanation of Schedule

BOD and TSS Effluent Limits – A compliance schedule is included in the permit to provide time for the permittee to submit plans and specs and complete any necessary changes at the facility in order to come into compliance with the new, more stringent water quality-based effluent limits for BOD_5 and TSS. Limits become effective April 1, 2031.

Attachments

Water Quality-Based Effluent Limitations for the Village of Poplar WPDES Permit No. WI-0049760-06-0, by Michael Polkinghorn, Water Resources Engineer, dated November 11, 2025

Phosphorus Variance EPA Data Sheet

Phosphorus Pollutant Minimization Program (PMP) Plan, Village of Poplar, dated December 2024

Justification Of Any Waivers From Permit Application Requirements

No waivers from permit application requirements were requested or granted.

Prepared By: Sarah Donoughe, Wastewater Specialist-Adv **Date:** April 22, 2026