



WPDES PERMIT

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
**PERMIT TO DISCHARGE UNDER THE WISCONSIN POLLUTANT DISCHARGE
ELIMINATION SYSTEM**

Village of Rosendale

is permitted, under the authority of Chapter 283, Wisconsin Statutes, to discharge from a facility
located in Fond du Lac County at
158 East Rose-Eld Road, Rosendale, Wisconsin

to
**an unnamed tributary (Water Body Identification Code number 134900) to the West Branch of the Fond du
Lac River, in the Fond du Lac River Watershed (UF03) of the Upper Fox River Basin**

in accordance with the effluent limitations, monitoring requirements and other conditions set
forth in this permit.

The permittee shall not discharge after the date of expiration. If the permittee wishes to continue to discharge after
this expiration date an application shall be filed for reissuance of this permit, according to Chapter NR 200, Wis.
Adm. Code, at least 180 days prior to the expiration date given below.

State of Wisconsin Department of Natural Resources
For the Secretary

By Kelley O'Connor
Kelley O'Connor
Wastewater Supervisor, Northeast Region

August 2, 2017
Date Permit Signed/Issued

PERMIT TERM: EFFECTIVE DATE - October 01, 2017

EXPIRATION DATE - September 30, 2022

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1 Influent Requirements

1.1 Sampling Point(s)

Sampling Point Designation	
Sampling Point Number	Sampling Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
701	Influent - Representative samples shall be collected from the influent wet well.

1.2 Monitoring Requirements

The permittee shall comply with the following monitoring requirements.

1.2.1 Sampling Point 701 - Influent

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
BOD ₅ , Total		mg/L	3/Week	24-Hr Flow Prop Comp	
Suspended Solids, Total		mg/L	3/Week	24-Hr Flow Prop Comp	

2 Surface Water Requirements

2.1 Sampling Point(s)

Sampling Point Designation	
Sampling Point Number	Sampling Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
001	Effluent - Representative samples shall be collected from the effluent manhole except that samples for pH and Dissolved Oxygen shall be taken from the effluent discharge channel.

2.2 Monitoring Requirements and Effluent Limitations

The permittee shall comply with the following monitoring requirements and limitations.

2.2.1 Sampling Point (Outfall) 001 - Effluent

Monitoring Requirements and Effluent Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Flow Rate		MGD	Daily	Continuous	
BOD ₅ , Total	Daily Max	30 mg/L	3/Week	24-Hr Flow Prop Comp	
BOD ₅ , Total	Monthly Avg	15 mg/L	3/Week	24-Hr Flow Prop Comp	
Suspended Solids, Total	Daily Max	30 mg/L	3/Week	24-Hr Flow Prop Comp	
Suspended Solids, Total	Monthly Avg	20 mg/L	3/Week	24-Hr Flow Prop Comp	
pH Field	Daily Min	6.0 su	Daily	Grab	
pH Field	Daily Max	9.0 su	Daily	Grab	
Dissolved Oxygen	Daily Min	4.0 mg/L	Daily	Grab	
Nitrogen, Ammonia (NH ₃ -N) Total	Daily Max	14 mg/L	3/Week	24-Hr Flow Prop Comp	
Nitrogen, Ammonia (NH ₃ -N) Total	Weekly Avg	11 mg/L	3/Week	24-Hr Flow Prop Comp	Applies October – March
Nitrogen, Ammonia (NH ₃ -N) Total	Weekly Avg	4.7 mg/L	3/Week	24-Hr Flow Prop Comp	Applies April – May
Nitrogen, Ammonia (NH ₃ -N) Total	Weekly Avg	3.5 mg/L	3/Week	24-Hr Flow Prop Comp	Applies June – September
Nitrogen, Ammonia (NH ₃ -N) Total	Monthly Avg	4.9 mg/L	3/Week	24-Hr Flow Prop Comp	Applies October – March
Nitrogen, Ammonia (NH ₃ -N) Total	Monthly Avg	2.1 mg/L	3/Week	24-Hr Flow Prop Comp	Applies April – May
Nitrogen, Ammonia (NH ₃ -N) Total	Monthly Avg	1.9 mg/L	3/Week	24-Hr Flow Prop Comp	Applies June – September
Chloride	Weekly Avg	613 mg/L	4/Month	24-Hr Flow Prop Comp	Interim limit; see Section 2.2.1.2

Monitoring Requirements and Effluent Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Phosphorus, Total	Monthly Avg	4.7 mg/L	3/Week	24-Hr Flow Prop Comp	Interim limit. The final effluent limits are 0.075 mg/L as 6-month average, and 0.225 mg/L as a monthly average; see Sections 2.2.1.3, 2.2.1.4 and 2.2.1.5. The schedule for achieving final compliance is found in Section 4.1.
Temperature Maximum		deg F	3/Week	Measure	Monitoring only October – December, through December 2020; see Sections 2.2.1.6, 2.2.1.7 and 2.2.1.8
Temperature Maximum	Weekly Avg	63 deg F	3/Week	Measure	Applies during October, effective in 2021
Temperature Maximum	Weekly Avg	54 deg F	3/Week	Measure	Applies during November and December, effective in 2021
Acute WET		TU _a	See Listed Qtr(s)	24-Hr Flow Prop Comp	See Section 2.2.1.9 for WET testing requirements and schedule
Chronic WET		TU _c	See Listed Qtr(s)	24-Hr Flow Prop Comp	

2.2.1.1 Annual Average Design Flow

The annual average design flow of the permittee’s wastewater treatment facility is 0.216 MGD.

2.2.1.2 Chloride Variance – Implement Source Reduction Measures

This permit contains a variance to the water quality-based effluent limits (395 mg/L as weekly and monthly averages) for chloride granted in accordance with s. NR 106.83(2), Wis. Adm. Code. As conditions of this variance the permittee shall (a) Maintain effluent quality at or below the interim effluent limitation specified in the table above; (b) Perform the actions listed in the compliance schedule (See the Schedules section herein.); (c) follow the approved Source Reduction Plan; and (d) Implement the chloride source reduction measures specified below:

1. Identify any new or additional sources of chloride to the sewer system.
2. Continue to educate homeowners on the impact of chloride from residential softeners, discuss options available for increasing softener salt efficiency, and seek reduction.
3. Continue rebate program for replacement of old softeners with demand initiated regeneration (DIR) softeners.
4. Conduct an inventory of water softeners in use in the Village to collect information about the age, type of regeneration control unit and when each was last tuned-up.
5. Mandate through ordinance a chloride limit on industrial sources.

6. Mandate through ordinance a DIR and high salt efficiency standard for new residential and commercial softeners.
7. Mandate through ordinance participation in a residential and commercial softener tune-up program involving qualified servicing to ensure proper control settings and adjustments.
8. Evaluate the feasibility, in terms of both the technical and economic aspects, of installing a municipal water system with lime softening technology, and submit these findings in the final chloride report.

2.2.1.3 Phosphorus Water Quality Based Effluent Limitation(s)

Interim Phosphorus Limitation: 4.7 mg/L.

The final water quality based effluent limits (WQBELs) for phosphorus are 0.075 mg/L as a 6-month average*, and 0.225 mg/L as a monthly average, and will take effect per the Compliance Schedule unless:

(A) As part of the application for the next reissuance, or prior to filing the application, the permittee submits either:

- 1) A watershed adaptive management plan and a completed Watershed Adaptive Management Request Form 3200-139; or
- 2) An application for water quality trading; or
- 3) An application for a variance; or
- 4) New information or additional data that supports a recalculation of the numeric limitation;

and,

(B) The Department modifies, revokes and reissues, or reissues the permit to incorporate a revised limitation before the expiration of the compliance schedule**.

* The applicable averaging periods for 6-month average Total Phosphorus effluent limits are May through October and November through April.

** The Department will prioritize reissuances and revocations, modifications, and reissuances of permits to allow permittees the opportunity to implement adaptive management or nutrient trading in a timely and effective manner.

If Adaptive Management or Water Quality Trading is approved as part of the permit application for the next reissuance or as part of an application for a modification or revocation and reissuance, the plan and specifications submittal, construction, and final effective dates for compliance with the total phosphorus WQBELs may change in the reissued or modified permit. In addition, the numeric value of the water quality based effluent limit may change based on new information (e.g., a TMDL – see Section 2.2.1.10) or additional data.

If a variance is approved for the next reissuance, interim limits and conditions will be imposed in the reissued permit in accordance with s. 283.15, Stats., and applicable regulations. A permittee may apply for a variance to the phosphorus WQBEL at the next reissuance even if the permittee did not apply for a phosphorus variance as part of this permit reissuance.

Note: If a water quality based effluent limit has taken effect in a permit, any increase in the limit is subject to s. NR 102.05(1) and ch. NR 207, Wis. Adm. Code.

2.2.1.4 Alternative Approaches to Phosphorus WQBEL Compliance

Rather than upgrading its wastewater treatment facility to comply with WQBELs for total phosphorus, the permittee may use Water Quality Trading or the Watershed Adaptive Management Option, to achieve compliance under ch. NR 217, Wis. Adm. Code, provided that the permit is modified, revoked and reissued, or reissued to incorporate any such alternative approach.

The permittee may also implement an upgrade to its wastewater treatment facility in combination with Water Quality Trading or the Watershed Adaptive Management Option to achieve compliance, provided that the permit is modified, revoked and reissued, or reissued to incorporate any such alternative approach.

If the Final Compliance Alternatives Plan concludes that a variance will be pursued, the Plan shall provide information regarding the basis for the variance.

2.2.1.5 Submittal of Permit Application for Next Reissuance and Adaptive Management or Pollutant Trading Plan or Variance Application

The permittee shall submit the permit application for the next reissuance at least 6 months prior to expiration of this permit.

If the permittee intends to pursue adaptive management to achieve compliance with the phosphorus water quality based effluent limitation, the permittee shall submit with the application for the next reissuance: a completed Watershed Adaptive Management Request Form 3200-139, the completed Adaptive Management Plan and final plans for any system upgrades necessary to meet interim limits pursuant to s. NR 217.18, Wis. Adm. Code.

If the permittee intends to pursue pollutant trading to achieve compliance, the permittee shall submit an application for water quality trading with the application for the next reissuance.

If system upgrades will be used in combination with pollutant trading to achieve compliance with the final water quality-based limit, the reissued permit will specify a schedule for the necessary upgrades.

If the permittee intends to seek a variance, the permittee shall submit an application for a variance with the application for the next reissuance.

2.2.1.6 Effluent Temperature Monitoring

For manually measuring effluent temperature, grab samples should be collected at 6 evenly spaced intervals during the 24-hour period. Alternative sampling intervals may be approved if the permittee can show that the maximum effluent temperature is captured during the sampling interval. For monitoring temperature continuously, collect measurements in accordance with s. NR 218.04(13). This means that discrete measurements shall be recorded at intervals of not more than 15 minutes during the 24-hour period. In either case, report the maximum temperature measured during the day on the DMR.

2.2.1.7 Effluent Temperature Limitations

The effluent limitations for "Temperature, Maximum" become effective on October 1, 2021 as specified in the Schedules section. Monitoring is required 3X/week upon permit reissuance. Daily maximum temperatures shall be reported so that applicable weekly average limits can be compared to the weekly averages of the reported daily maximum temperatures.

2.2.1.8 Dissipative Cooling Demonstration – POTW Weekly Average Limits

If weekly average effluent temperature limitations are needed, the permittee may submit all additional necessary information with a request that the Department account for dissipative cooling of the effluent pursuant to s. NR 106.59, Wis. Adm. Code. If the Department determines that weekly average effluent limitations for temperature are not necessary based on dissipative cooling the Department shall modify the permit to remove the weekly average effluent limitations and monitoring requirements pursuant to s. NR 106.59(4)(c), and the remainder of the permit schedule for weekly average temperature limits shall be discontinued at that time. If after reviewing the data the Department determines that weekly average effluent limitations for temperature are still necessary because the thermal load from the effluent is not adequately dissipated, the requirement to meet the effluent limitations according to the permit schedule will not be removed and the monitoring frequency specified in the permit shall continue to apply. A re-evaluation of the limits may then be requested pursuant to NR 106 – 'Subchapters V & VI Effluent Limitations for Temperature' or NR 102.26 – Site Specific Ambient Temperature.

2.2.1.9 Whole Effluent Toxicity (WET) Testing

Primary Control Water: Grab sample collected from the West Branch of the Fond du Lac River upstream from the permittee's discharge and out of the influence from any other known discharge, or lab water may be used with the consent of the department.

Instream Waste Concentration (IWC): 93%

Dilution series: At least five effluent concentrations and dual controls must be included in each test.

- **Acute:** 100, 50, 25, 12.5, 6.25% and any additional selected by the permittee.
- **Chronic:** 100, 75, 50, 25, 12.5% and any additional selected by the permittee.

WET Testing Frequency: Tests are required during the following calendar quarters.

- **Acute:** Acute tests shall be conducted once every other year, in rotating quarters, in order to collect seasonal information about the discharge. Tests are required during the following calendar quarters:
 - July 1, 2018 – September 30, 2018
 - January 1, 2020 – March 31, 2020
 - Acute WET testing shall continue once every other year until the permit is reissued in accordance with the WET requirements specified for the last full year of this permit (the next test would be required in 2022).
- **Chronic:** Chronic tests shall be conducted once every year, in rotating quarters, in order to collect seasonal information about the discharge. Tests are required during the following calendar quarters:
 - October 1, 2017 – December 31, 2017
 - July 1, 2018 – September 30, 2018
 - April 1, 2019 – June 30, 2019
 - January 1, 2020 – March 31, 2020
 - October 1, 2021 – December 31, 2021
 - Chronic WET testing shall continue once every year until the permit is reissued in accordance with the WET requirements specified for the last full year of this permit (the next test would be required in 2022).

Testing: WET testing shall be performed during normal operating conditions. Permittees are not allowed to turn off or otherwise modify treatment systems, production processes, or change other operating or treatment conditions during WET tests.

Reporting: The permittee shall report test results on the Discharge Monitoring Report form, and also complete the "Whole Effluent Toxicity Test Report Form" (Section 6, "*State of Wisconsin Aquatic Life Toxicity Testing Methods Manual, 2nd Edition*"), for each test. The original, complete, signed version of the Whole Effluent Toxicity Test Report Form shall be sent to the Biomonitoring Coordinator, Bureau of Water Quality, 101 S. Webster St., P.O. Box 7921, Madison, WI 53707-7921, within 45 days of test completion. The Discharge Monitoring Report (DMR) form shall be submitted electronically by the required deadline.

Determination of Positive Results: An acute toxicity test shall be considered positive if the Toxic Unit - Acute (TU_a) is greater than 1.0 for either species. The TU_a shall be calculated as follows: $TU_a = 100 \div LC_{50}$. A chronic toxicity test shall be considered positive if the Toxic Unit - Chronic (TU_c) is greater than 1.08 for either species. The TU_c shall be calculated as follows: $TU_c = 100 \div IC_{25}$.

Additional Testing Requirements: Within 90 days of a test which showed positive results, the permittee shall submit the results of at least 2 retests to the Biomonitoring Coordinator on "Whole Effluent Toxicity Test Report Forms". The 90 day reporting period shall begin the day after the test which showed a positive result. The retests

shall be completed using the same species and test methods specified for the original test (see the Standard Requirements section herein).

2.2.1.10 Total Maximum Daily Load (TMDL) Limitations

TMDL Under Development: A Total Maximum Daily Load (TMDL) is being developed for the Upper Fox and Wolf River Basins to address Phosphorus and Suspended Solids water quality impairments within the TMDL area. This TMDL will likely result in limitations for Phosphorus and Total Suspended Solids that must be included in WPDES permits, which may be different than those calculated for this permit reissuance. TMDL-derived limits may be included in lieu of or in addition to the calculated limits upon permit reissuance or modification once the TMDL has been approved by U.S. EPA, according to s. NR 217.16, Wis. Adm. Code.

3 Land Application Requirements

3.1 Sampling Point(s)

The discharge(s) shall be limited to land application of the waste type(s) designated for the listed sampling point(s) on Department approved land spreading sites or by hauling to another facility.

Sampling Point Designation	
Sampling Point Number	Sampling Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
003	Hauled Sludge - Representative sludge samples shall be collected prior to hauling sludge and test results shall be reported on Form 3400-49 "Waste Characteristics Report". Hauled sludge reports shall be submitted on Form 3400-52 "Other Methods of Disposal or Distribution Report" following each year that sludge is hauled.

3.2 Monitoring Requirements and Limitations

The permittee shall comply with the following monitoring requirements and limitations.

3.2.1 Sampling Point (Outfall) 003 - Hauled Sludge

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Solids, Total		Percent	Annual	Composite	Limits applicable only to land application of sludge
Arsenic Dry Wt	High Quality	41 mg/kg	Annual	Composite	
Arsenic Dry Wt	Ceiling	75 mg/kg	Annual	Composite	
Cadmium Dry Wt	High Quality	39 mg/kg	Annual	Composite	
Cadmium Dry Wt	Ceiling	85 mg/kg	Annual	Composite	
Copper Dry Wt	High Quality	1,500 mg/kg	Annual	Composite	
Copper Dry Wt	Ceiling	4,300 mg/kg	Annual	Composite	
Lead Dry Wt	High Quality	300 mg/kg	Annual	Composite	
Lead Dry Wt	Ceiling	840 mg/kg	Annual	Composite	
Mercury Dry Wt	High Quality	17 mg/kg	Annual	Composite	
Mercury Dry Wt	Ceiling	57 mg/kg	Annual	Composite	
Molybdenum Dry Wt	Ceiling	75 mg/kg	Annual	Composite	
Nickel Dry Wt	High Quality	420 mg/kg	Annual	Composite	
Nickel Dry Wt	Ceiling	420 mg/kg	Annual	Composite	
Selenium Dry Wt	High Quality	100 mg/kg	Annual	Composite	
Selenium Dry Wt	Ceiling	100 mg/kg	Annual	Composite	
Zinc Dry Wt	High Quality	2,800 mg/kg	Annual	Composite	
Zinc Dry Wt	Ceiling	7,500 mg/kg	Annual	Composite	
PCB Total Dry Wt	High Quality	10 mg/kg	Once	Composite	Monitoring required in 2018; see Sections 3.2.1.1 and 5.5.6 for monitoring requirements
PCB Total Dry Wt	Ceiling	50 mg/kg	Once	Composite	

3.2.1.1 Sludge Analysis for PCBs

The permittee shall analyze the sludge for Total PCBs one time during **2018**. The results shall be reported as "PCB Total Dry Wt". Either congener-specific analysis or Aroclor analysis shall be used to determine the PCB concentration. The permittee may determine whether Aroclor or congener specific analysis is performed. Analyses shall be performed in accordance with Table EM in s. NR 219.04, Wis. Adm. Code and the conditions specified in Standard Requirements of this permit. PCB results shall be submitted by January 31, following the specified year of analysis.

4 Schedules

4.1 Facility Upgrade

The permittee shall upgrade its facility to update or replace aging equipment.

Required Action	Due Date
Facility Plan Amendment Preliminary Report: Submit a preliminary report on facility planning activities.	09/30/2018
Facility Plan Amendment: Submit a facility plan amendment.	09/30/2019
Plans and Specifications: Submit plans and specifications for facility upgrades.	03/31/2020
Initiate Construction: Start construction to implement facility upgrades in accordance with the approved plans and specifications.	09/30/2020
Complete construction: Complete construction of facility upgrades.	09/30/2021

4.2 Chloride Target Value

As a condition of the variance to the water quality based effluent limitation(s) for chloride granted in accordance with s. NR 106.83(2), Wis. Adm. Code, the permittee shall perform the following actions.

Required Action	Due Date
<p>Annual Chloride Progress Report: Submit an annual chloride progress report. The annual chloride progress report shall:</p> <p>Summarize activities that have been conducted for each of the chloride source reduction measures listed in the approved Source Reduction Plan;</p> <p>Include an analysis of trends in weekly, monthly and annual average chloride concentrations and total mass discharge of chloride based on chloride sampling and flow data; and</p> <p>Include an analysis of how influent and effluent chloride varies with time and with significant loadings of chloride such as loads from industries or road salt intrusion into the collection system.</p> <p>Note that the interim limitation of 613 mg/L remains enforceable until new enforceable limits are established in the next permit issuance. The first annual chloride progress report is to be submitted by the Date Due.</p>	03/31/2018
Annual Chloride Progress Report #2: Submit the chloride progress report as defined above.	03/31/2019
Annual Chloride Progress Report #3: Submit the chloride progress report as defined above.	03/31/2020
Annual Chloride Progress Report #4: Submit the chloride progress report as defined above.	03/31/2021
Final Chloride Report: Submit the final chloride report documenting the success in meeting the chloride target value of 550 mg/L, as well as the anticipated future reduction in chloride sources and chloride effluent concentrations. The report shall summarize chloride source reduction measures that have been implemented during the current permit term and state which, if any, source reduction measures from the approved Source Reduction Plan were not pursued and why. The report shall include an analysis of trends in weekly, monthly and annual average chloride concentrations and total mass discharge of chloride based on chloride sampling and flow data covering the current permit	03/31/2022