Permit Fact Sheet

General Information

Permit Number	WI-0058998-05-0
Permittee Name and Address	Rosenholm Dairy S1843 County Road U, Cochrane, WI 54622
Permitted Facility Name and Address	Rosenholm Dairy S1843 County Road U Cochrane
Permit Term	March 01, 2025 to February 28, 2030
Discharge Location	Waumandee and Montana Townships
Receiving Water	Waumandee Creek
Stream Classification	Class II Trout Stream
Discharge Type	Existing Discharge Source

Animal Units					
	Current AU		**Proposed AU** **(Note: If all zeroes, expansions are not expected during permit term)**		
Animal Type	**Mixed**	**Individual**	**Mixed**	**Individual**	**Date of Proposed Expansion**
Dairy Calves (under 400 lbs.)	27	0	0	0	
Milking and Dry Cows	770	787	0	0	
Heifers (400 lbs. to 800 lbs.)	72	120	0	0	
Heifers (800 lbs. to 1200 lbs.)	297	270	0	0	
Total	1166	787	0	0	

Facility Description

Rosenholm Dairy, LLP is a Concentrated Animal Feeding Operation (CAFO) dairy farm owned/operated by John and Nette Rosenow. The farm is located within the Townships of Waumandee and Montana in Buffalo County. The operation currently has 554 milking/dry cows, 390 heifers, and 135 calves (1,166 animal units).

Rosenholm Dairy spans across four sites. Dairy Site includes: three waste storage structures, two free stall barns, feed bunker area, and some young calf housing. The Loren Farm includes: two outdoor heifer lots, a vegetated pasture, and a Slurry Store. The Brad Farm includes an outdoor heifer lot and a vegetated pasture. The Shop Lot site includes an outdoor heifer lot and a small, pastured paddock used periodically.

Substantial Compliance Determination

Enforcement During Last Permit: During the previous permit term, the department issued Rosenholm Dairy a Notice of Violation on January 7, 2020, for a production area discharge to surfacewater and missing a permit schedule item. The department also issued a Notice of Noncompliance letter on February 11, 2022, for not submitting a complete WPDES CAFO permit application. Rosenholm Dairy has since addressed the discharge issue and has completed construction of the feed bunker runoff containment system.

After the review of Annual Reports, Nutrient Management Plan Updates, permit reissuance application, and department staff site visits on 7/30/2019, 10/5/2022, 11/30/2023, and 12/20/2024, Rosenholm Dairy has been found to be in substantial compliance with their permit.

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Compliance determination made by Jeff Jackson, DNR Agricultural Runoff Specialist on December 30, 2024.

Sample Point Descriptions

Sample Point Designation For Animal Waste		
Sample Point Number	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**	
001	Sample point 001 is for liquid waste from waste storage facility 1 (WSF-1), located at the Dairy Site. WSF-1 is a synthetic-lined storage structure located northwest of the freestall barns. The structure has a top to bottom volume capacity of approximately 1.6 million gallons and was constructed in 1990.	
002	Sample point 002 is for liquid waste from waste storage facility 2 (WSF-2), located at the Dairy Site. WSF-2 is a synthetic-lined storage structure located northwest of the freestall barns. The structure has a top to bottom volume capacity of approximately 2.1 million gallons and was constructed in 1997.	
003	Sample point 003 is for liquid waste from waste storage facility 3 (WSF-3), located at the Dairy Site. WSF-3 is a synthetic-lined storage structure located northwest of the freestall barns. The structure has a top to bottom volume capacity of approximately 3.6 million gallons and was constructed in 1997.	
004	Sample point 004 is for liquid waste temporarily stored in the Slurry Store, located at the Loren Farm. The structure has a top to bottom volume capacity of approximately 264,000 gallons and was constructed around 1988.	
005	Sample point 005 is for the solid manure stacking pad, located between the freestall barns at the dairy site. The stacking pad is used to temporarily store solid manure coming off the solid separator system, manure from the outdoor heifer lots and calf manure. Contaminated runoff from the pad is routed to the freestall barn's waste transfer system.	
007	Sample point 007 is for visual monitoring and inspection of the heifer lot's runoff containment system at the Loren Farm. Proper operation and maintenance are required to ensure systems are functioning and contaminated runoff is being properly contained. Weekly inspections are required and shall be recorded according to the operation's monitoring plan.	
008	Sample point 008 is for visual monitoring and inspection of the heifer lot's runoff containment system at the Brad Farm. Proper operation and maintenance are required to ensure systems are functioning and	

Sample Point Designation For Animal Waste		
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	contaminated runoff is being properly contained. Weekly inspections are required and shall be recorded according to the operation's monitoring plan.	
009	Sample point 009 is for visual monitoring and inspection of the heifer lot's runoff containment system at the Shop Lot site. Proper operation and maintenance are required to ensure systems are functioning and contaminated runoff is being properly contained. Weekly inspections are required and shall be recorded according to the operation's monitoring plan.	
010	Sample point 010 is for visual monitoring and inspection of the feed bunker area and the associated runoff control system, including the leachate catch basins. Proper operation and maintenance are required to ensure noncompliant pollution discharges do not occur. Weekly inspections are required and shall be recorded according to the Rosenholm Dairy monitoring and inspection plan.	
011	Sample point is for visual monitoring and inspection of all production area stormwater conveyance systems. This includes drainage tile systems, grassed waterways and other diversion systems that are designed to transport uncontaminated stormwater offsite. Weekly inspections are required and shall be recorded according to the Rosenholm Dairy monitoring and inspection plan.	

1 Livestock Operations - Proposed Operation and Management

Production Area Discharge Limitations

Beginning on the effective date of the permit, the permittee may not discharge pollutants from the operation's production area (e.g., manure storage areas, outdoor animal lots, composting and leachate containment systems, milking center wastewater treatment/containment systems, raw material storage areas) to navigable waters, except in the event a 25-year, 24-hour rainfall event (or greater) causes the discharge from a structure which is properly designed and maintained to contain a 25-year, 24-hour rainfall event for this location as determined under s. NR 243.04. If an allowable discharge occurs from the production area, state water quality standards may not be exceeded.

Runoff Control

The permit requires control of contaminated runoff from all elements of the production area to prevent a discharge of pollutants to navigable waters in accordance with the Production Area Discharge Limitations and to comply with surface water quality standards and groundwater standards. Beginning on the effective date of this permit, (if needed) interim measures shall be implemented to prevent discharges of pollutants to navigable waters. In addition, permanent runoff control system(s) shall be designed, operated and maintained in accordance with the requirements found in USDA Natural Resources Conservation Service standards and ch. NR 243, Wis. Adm. Code. If any upgrading or modifications to runoff controls are necessary, formal engineering plans and specifications must be submitted to the Department for approval.

Manure and Process Wastewater Storage

The permit requires the operation to have adequate storage for manure and process wastewater and that storage or containment facilities are designed, operated and maintained to prevent overflows and discharges to waters of the state. In order to prevent overflows, the permittee must maintain levels of materials in liquid storage or containment facilities at or below certain levels including a one-foot margin of safety that can never be exceeded. If any upgrading or modifications to the storage facilities are necessary, formal engineering plans and specifications must be submitted to the Department for approval.

The permittee currently has approximately 181 days of storage for liquid manure. The permittee must maintain 180 days of storage, unless temporary reductions in required storage are approved by the Department.

Ancillary Service and Storage Areas

The permittee shall take preventative maintenance actions and conduct visual inspections to minimize pollutant discharges from areas of the operation that are not part of the production area or land application areas. These areas are called ancillary service and storage areas and include access roads, shipping and receiving areas, maintenance areas, refuse piles and CAFO outdoor vegetated areas.

Nutrient Management

Rosenholm Dairy, LLP has a total of 887.3 acres as part of their DNR approved nutrient management plan. Of these acres, all are rented or controlled through manure spreading agreements. Rosenholm Dairy does not have plans to expand animal numbers during the proposed five-year permit term.

It is estimated Rosenholm Dairy will produce 12.5 million gallons of liquid manure and 2,976 tons of solid manure annually. A large amount of solid manure produced by the farm is transferred to a commercial composting facility. This composted material is then sold to greenhouses and landscapers across the region.

The permit requires all landspreading of manure and process wastewater be completed in accordance with an approved nutrient management plan. The permit will require sampling and analysis of manure and process wastewater that will be landspread. Landspreading rates must be adjusted based on sample analysis. The permit requires the permittee to maintain a daily log that documents landspreading activities. The permit also requires the submittal of an annual report that summarizes all landspreading activities. Plans must be updated annually to reflect cropping plans and other operational changes. Among the requirements, the plans must include detailed landspreading information including field by field nutrient budgets.

The permittee is required to implement a number or practices to address potential water quality impacts associated with the land application of manure and process wastewater. Among the permit conditions are restrictions on manure ponding, restrictions on runoff of manure and process wastewater from cropped fields, and setbacks from wells and direct conduits to groundwater (e.g., sinkholes, fractured bedrock at the surface). In addition, the permittee must implement a phosphorus based nutrient management plan that addresses phosphorus delivery to surface waters by basing manure and process wastewater applications on soil test phosphorus levels or the Wisconsin Phosphorus index. Additional phosphorus application restrictions apply to fields that are high in soil test phosphorus (>100 ppm).

The permittee must also implement conservation practices when applying manure near navigable waters and their conduits, referred to as the Surface Water Quality Management Area (SWQMA). These practices include a 100-foot setback from navigable waters and their conduits, a 35-foot vegetated buffer adjacent to the navigable water or conduit, or a practice that provides equivalent pollutant reductions equivalent to or better than the 100-foot setback.

In addition, the permittee must comply with restrictions on land application of manure and process wastewater on frozen or snow-covered ground. Included in these restrictions is a prohibition on surface applications of solid manure ($\geq$12% solids) on frozen or snow-covered ground during February and March. Non-emergency surface applications of liquid manure (<12%) on frozen or snow-covered ground are prohibited.

Monitoring and Sampling Requirements

The permittee must submit a monitoring and inspection program that outlines how the permittee will conduct self-inspections to determine compliance with permit conditions. These self-inspections include visual inspections of water lines, diversion devices, storage and containment structures and other parts of the production area. The permit requires periodic inspections and calibrations of landspreading equipment. The permittee must take corrective actions to problems identified inspections or otherwise notify the Department. Samples of manure, process wastewater and soils receiving land applied materials from the operation must also be collected and analyzed.

Sampling Points

The permit identifies the different sources of land applied materials (e.g., manure storage facilities, milking centers, egg-washing facilities) as "Sampling Points." For these Sampling Points, the permittee is required to sample and analyze the different sources for nutrients and other parameters which serve as the basis for determining rates of application for these materials. Other areas are also identified as Sampling Points as a means of identifying them as areas requiring action by the permittee, such as an upgrade or evaluation of a certain system or structure (e.g., runoff control systems), even though sampling is not actually required.

1.1 Sample Point Number: 001- WSF-1; 002- WSF-2; 003- WSF-3; 004- Slurry Store

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Nitrogen, Total		lb/1000gal	2/Month	Grab	
Nitrogen, Available		lb/1000gal	2/Month	Calculated	
Phosphorus, Total		lb/1000gal	2/Month	Grab	
Phosphorus, Available		lb/1000gal	2/Month	Calculated	
Solids, Total		Percent	2/Month	Grab	

1.1.1 Changes from Previous Permit

No changes were made except for altering the structure names.

1.1.2 Explanation of Operation and Management Requirements

Sampling requirements are consistent with CAFO requirements.

1.2 Sample Point Number: 005- Solid Manure Stacking Pad

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Nitrogen, Total		lbs/ton	Quarterly	Grab	
Nitrogen, Available		lbs/ton	Quarterly	Calculated	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Phosphorus, Total		lbs/ton	Quarterly	Grab	
Phosphorus, Available		lbs/ton	Quarterly	Calculated	
Solids, Total		Percent	Quarterly	Grab	

1.2.1 Changes from Previous Permit

No changes

1.2.2 Explanation of Operation and Management Requirements

Sampling requirements are consistent with standard CAFO permit requirements.

1.3 Sample Point Number: 007- Loren Farm Heifer Lots; 008- Brad Farm Heifer Lot; 009- Shop Lot Site; 010- Feed Bunker Area, and 011- Stormwater Conveyance

1.3.1 Changes from Previous Permit

Monitoring and inspection requirements for runoff management structures have been added to the permit.

1.3.2 Explanation of Operation and Management Requirements

Monitoring requirements are consistent with standard CAFO permit requirements.

2 Schedules

2.1 Emergency Response Plan

Required Action	Due Date
Develop Emergency Response Plan: Develop a written Emergency Response Plan within 31 days of permit coverage, available to the Department upon request.	03/31/2025

2.2 Explanation of Schedules

Schedule item consistent with CAFO permit requirements.

2.3 Monitoring & Inspection Program

Required Action	Due Date
Proposed Monitoring and Inspection Program: Consistent with the Monitoring and Sampling Requirements subsection, the permittee shall submit a proposed monitoring and inspection program	03/31/2025

within 31 days of the effective date of this permit.	

2.4 Explanation of Schedules

Schedule item consistent with CAFO permit requirements.

2.5 Annual Reports

Submit Annual Reports by January 31st of each year in accordance with the Annual Reports subsection in Standard Requirements.

Required Action	Due Date
Submit Annual Report #1: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2026
Submit Annual Report #2: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2027
Submit Annual Report #3: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2028
Submit Annual Report #4: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2029
Submit Annual Report #5: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2030
Ongoing Annual Reports: Continue to submit Annual Reports until permit reissuance has been completed.	

2.6 Explanation of Schedules

Schedule item consistent with CAFO permit requirements.

2.7 Nutrient Management Plan

Required Action	Due Date
Management Plan Annual Update #1: Submit an Annual Update to the Nutrient Management Plan by March 31st of each year. Note: In addition to Annual Updates, submit Management Plan Amendments to the Department for written approval prior to implementation of any changes to nutrient management practices, in accordance with the Nutrient Management requirements in the Livestock Operational and Sampling Requirements section.	03/31/2025
Management Plan Annual Update #2: Submit an Annual Update to the Nutrient Management Plan.	03/31/2026
Management Plan Annual Update #3: Submit an Annual Update to the Nutrient Management Plan.	03/31/2027
Management Plan Annual Update #4: Submit an Annual Update to the Nutrient Management Plan.	03/31/2028

Management Plan Annual Update #5: Submit an Annual Update to the Nutrient Management Plan.	03/31/2029
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed.	

2.8 Explanation of Schedules

Schedule item consistent with CAFO permit requirements.

2.9 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	09/01/2029

2.10 Explanation of Schedules

Schedule item consistent with CAFO permit requirements.

Other Comments

The manure composting site was considered a commercial composting site, therefore, was removed from the CAFO permit. The structure is now regulated by DNR Solid Waste Program.

Attachments

Justification Of Any Waivers from Permit Application Requirements

No waivers issued for this permit.

Prepared By: Jeff Jackson **Agricultural Runoff Specialist** **Date:** December 30, 2024