Permit Fact Sheet

Permit modification to add three waste storage facilities and a solid stacking pad.

General Information

Permit Number:	WI-0062928-04-2
Permittee Name:	Ridge Breeze Dairy
Address:	W2686 390th Ave
City/State/Zip:	Maiden Rock WI 54750
Discharge Location:	SW ¼ NE ¼ Sec 1 T25N R16W Pierce County
Receiving Water:	Unnamed Tributaries to Rush River and groundwater within the Rush River Watershed
StreamFlow ($Q_{7,10}$):	0 cfs
Discharge Type:	Existing Discharge

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**
Milking and Dry Cows	2380	2431	8680	8866	11/01/2025
Heifers (800 lbs. to 1200 lbs.)	0	0	330	300	11/01/2025
Total	2380	2431	9010	8866	

Facility Description

Ridge Breeze Dairy, LLC is a Concentrated Animal Feeding Operation (CAFO) dairy farm located in Salem Township in Pierce County. The farm is owned and operated by Breeze Dairy Group and currently operates with approximately 1,700 milking/dry cows (~ 2,380 animal units). The operation is proposing to expand to approximately 6,200 milking/dry cows and 300 heifers (~ 9,010 animal units) by the end of 2025.

The operation is proposing to add three waste storage facilities to be used to storage manure and process wastewater generated at the site. Existing and proposed structures provide the operation with 240+ days of liquid waste storage, based on expanded animal numbers. The operation also proposes to add a concrete stacking pad, used to store separated manure solids and used animal bedding.

Substantial Compliance Determination

Enforcement During Permit-Term and Inspection Summary

The WPDES CAFO permit was transferred from the original owners to Ridge Breeze Dairy, LLC on April 26, 2022. Since the transfer, the department issued Ridge Breeze Dairy the following enforcement actions.

1. Notice of Noncompliance letter issued on April 14, 2023. This letter was issued due to field runoff that occurred during a February 2023 rain event.
2. Notice of Noncompliance letter issued on May 10, 2023. This letter was issued because of an operation and maintenance issue for the feed bunker runoff collection system. A permanent fix was implemented, and the enforcement action was closed on June 14, 2023.
3. Notice of Noncompliance letter issued on November 15, 2023. This letter was issued due to wastewater effluent limit violations that occurred during the second quarter of 2023. Ridge Breeze Dairy addressed the concerns by suspending the use of the wastewater discharge outfall as of August 31, 2023. Use of the system will only resume if/when the system will meet permit discharge requirements.

After a review of annual reports, review of permit modification application materials, and site inspections on April 17, 2023; April 25, 2023; and October 20, 2023, this facility has been found to be in substantial compliance with their permit.

3)

Compliance determination entered by: Jeff Jackson – WDNR Agriculture Runoff Specialist on May 28, 2024.

Sample Point Designation		
Sample Point Number	**Discharge Flow, Units, and Averaging Period**	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**
013		This sample point represents the RO permeate discharge from the waste treatment facility used to separate and treat water from dairy manure. Samples shall be taken following treatment and prior to discharge to a grassed waterway that flows to an unnamed stream via Outfall 013. The samples taken shall be representative of the RO permeate discharge that consists solely of the RO permeate before mixing with any other water.

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 a liquid waste storage facility located at the Main Farm. WSF 1 (small pit) is an in-place earthen storage constructed in 1999. WSF 1 has a usable volume of 1,575,220 gallons. This storage system accepts manure and process wastewater manure treatment system, typically concentrate from the ultra-filtration process. The manure treatment system can be bypassed. If this occurs, then WSF 1 may receive manure and process wastewater directly from the sand and fiber separation building (Manure Building).	
002	Sample point 002 is for solid manure sources that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen pack, heifer pack, etc. Representative samples shall be taken for each manure source type.	
003	Sample point 003 is for solid waste storage facility 3 (WSF 3) located at the Heifer/Dry Cow Site. WSF 3	

Sample Point Designation for Animal Waste		
Sample Point Number	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**	
	has clay walls, a concrete floor, and a concrete ramp. It is located to the west of the Dry Cow Barn. The facility has a capacity of 65 tons and was constructed in 1997. This storage accepts solids from the dry cow barn.	
004	Sample point 004 is for separated solids (fiber and sand). Solids are stored within the Manure Building and is either directly land applied or reused as bedding. Separated solids may also be distributed to another party according to Department approval and Distribution of Manure and Process Wastewater section of permit.	
005	Sample point 005 is for the asphalt compost pad located to the east of WSF 2 at the Main Farm. The facility has a capacity of 4,000 tons and was constructed in 2017. This storage accepts manure and bedding from the heifer barn, dry cow barn, calf hutch area, and fiber/sand from the separation processes.	
007	Sample point 007 is for the liquid waste storage facility located at the Main Farm. WSF 2 (Big Pit) is an in-place earthen storage constructed in 1999. WSF 2 has a usable volume of 4,627,126 gallons. This storage system accepts manure and process wastewater from the feed storage area, runoff from the adjacent composting pad, and concentrate from the reverse osmosis process from the manure treatment system. The manure treatment system can be bypassed. If this occurs, then WSF 2 may receive manure and process wastewater directly from the sand and fiber separation building (Manure Building).	
008	Sample point 008 is for solid manure stacked in approved headland stacking locations. Representative samples shall be taken of this manure prior to land application. Note: Headland stacking sites are subject to production site discharge limitations; weekly visual monitoring is required during use of stacking sites to ensure discharges meet permit requirements.	
010	Sample point 010 is for visual monitoring and inspection of the feed storage area and associated runoff control system. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program.	
011	Sample point 011 is for liquid waste storage facility WSF-4. WSF 4 is located west of the Manure Processing Building. WSF-4 is a concrete-lined structure constructed in 2023 and has with a Maximum Operating Level (MOL) capacity of approximately 9.45 million gallons.	
012	Sample point 012 is for liquid waste storage facility WSF-5. WSF-5 is located south of the future feed storage area. WSF-5 is a concrete-lined structure constructed in 2024 and collects silage leachate and feed storage area runoff. This structure has an approximate storage volume of 4.60 million gallons. After taking account for a 25-year/24-hour precipitation event from the feed storage area, the structure has a Maximum Operating Level (MOL) capacity of approximately 699,154 gallons.	
014	Sample point 014 is for liquid waste storage facility WSF-6. WSF-6 is located east of WSF-4. WSF-6 is a concrete-lined structure to be constructed in 2025. This structure has an approximate Maximum Operating Level (MOL) capacity of approximately 39,857,486 gallons.	
015	Sample point 015 is for the West Separated Solid Stacking Pad. This structure is a 100’ x 100’ concrete pad located west of the original freestall barns. Used animal bedding and separated manure solids will be stored here before being land applied.	

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.

Based on expanded animal numbers, the permittee would have approximately 244 days of storage for liquid waste. The permittee must maintain 180 days of storage, unless temporary reductions in required storage are approved by the Department.

Solid Manure Stacking

The operation has proposed to stack solid manure. All stacking of solid manure shall be done in accordance ch. NR 243, Wis. Adm. Code, which includes restrictions from NRCS Standard 313. Stacking of manure is considered to be part of the production area and is subject to the Production Area Discharge Limitations.

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

With 9,010 animal units, it is estimated that approximately 77.7 million gallons of manure and process wastewater will be produced per year. The permittee owns *approximately* 89.7 acres of cropland and controls an additional 7,273.3 acres through rental or land contract agreements. 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.

Sample Point Number: 001- WSF 1 (Small Pit); 007- WSF 2 (Big Pit); 011- WSF-4 (2023); 012- WSF-5 (Future), and 014- WSF-6 (Future)

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	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
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

Sample points 011 (WSF-4), 012 (WSF-5), and 014 (WSF-6) have been added to the permit.

1.1.2 Explanation of Operation and Management Requirements

Waste levels in liquid storages are required to be recorded weekly. Contents shall be sampled twice per month that land application actually occurs. Sampling results shall be submitted annually with the operation's nutrient management plan update. Manure and process wastewater shall be land applied in accordance with the operation's approved nutrient management plan.

Sample Point Number: 002- Miscellaneous Solids; 003- Dry Cow Barn Stacking Pad; 004- Separated Sand and Solids; 005- Main Farm Compost Pad; 008- Headland Stacking Sites; 015-West Separated Solid 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	
Phosphorus, Total		lbs/ton	Quarterly	Grab	
Phosphorus, Available		lbs/ton	Quarterly	Calculated	
Solids, Total		Percent	Quarterly	Grab	

1.1.3 Changes from Previous Permit

Sample point 015 has been added to reflect the future stacking pad located west of the original freestall barns.

1.1.4 Explanation of Operation and Management Requirements

Contents shall be sampled once per quarter that land application actually occurs. Sampling results shall be submitted annually with the operation's nutrient management plan update. Manure solids shall be land applied in accordance with the operation's approved nutrient management plan.

Sample Point Number: 010- Feed Storage Area

1.1.5 Changes from Previous Permit

Sample point 009 – Calf Hutch Area has been removed.

1.1.6 Explanation of Operation and Management Requirements

Runoff control system shall be monitored on a weekly basis. Results shall be submitted with the operation's annual report. Process wastewater from the feed storage area will be stored in WSF-5.

2 Surface Water - Monitoring and Limitations

Sample Point Number: 013- RO Permeate

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		gpd	Daily	Continuous	
BOD5, Total		mg/L	Monthly	24-Hr Flow Prop Comp	Limit is effective May through October
BOD5, Total		mg/L	Monthly	24-Hr Flow Prop Comp	Limit is effective May through October
BOD5, Total		mg/L	Monthly	24-Hr Flow Prop Comp	Limit is effective May through October
BOD5, Total	Daily Max	16 mg/L	Monthly	24-Hr Flow Prop Comp	Limit is effective November through April
BOD5, Total	Weekly Avg	10 mg/L	Monthly	24-Hr Flow Prop Comp	Limit is effective November through April
BOD5, Total	Monthly Avg	10 mg/L	Monthly	24-Hr Flow Prop Comp	Limit is effective November through April
Suspended Solids, Total	Daily Max	16 mg/L	Monthly	24-Hr Flow Prop Comp	
Suspended Solids, Total	Monthly Avg	10 mg/L	Monthly	24-Hr Flow Prop Comp	
pH Field	Daily Min	6.0 su	Monthly	Grab	
pH Field	Daily Max	9.0 su	Monthly	Grab	
Dissolved Oxygen	Daily Min	7.0 mg/L	Monthly	Grab	See Section 2.2.1.2 for sampling point location.
Nitrogen, Ammonia (NH3-N) Total	Daily Max - Variable	mg/L	Weekly	24-Hr Flow Prop Comp	See Section 2.2.1.3 for daily maximum variable

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
					limits.
Nitrogen, Ammonia (NH3-N) Total	Weekly Avg	8.4 mg/L	Weekly	24-Hr Flow Prop Comp	Limit is effective October through March
Nitrogen, Ammonia (NH3-N) Total	Monthly Avg	3.4 mg/L	Weekly	24-Hr Flow Prop Comp	Limit is effective October through March
Nitrogen, Ammonia (NH3-N) Total	Weekly Avg	5.3 mg/L	Weekly	24-Hr Flow Prop Comp	Limit is effective April through May
Nitrogen, Ammonia (NH3-N) Total	Monthly Avg	2.1 mg/L	Weekly	24-Hr Flow Prop Comp	Limit is effective April through May
Nitrogen, Ammonia (NH3-N) Total		mg/L	Weekly	24-Hr Flow Prop Comp	Limit is effective June through September
Nitrogen, Ammonia (NH3-N) Total		mg/L	Weekly	24-Hr Flow Prop Comp	Limit is effective June through September
Nitrogen, Ammonia Variable Limit		mg/L	Weekly	24-Hr Flow Prop Comp	
Nitrogen, Total		mg/L	Monthly	24-Hr Flow Prop Comp	
Nitrogen, Total	Annual Total	2,379 lbs/yr	Annual	Calculated	
Chlorine, Total Residual	Daily Max	19 ug/L	Monthly	Grab	
Chlorine, Total Residual	Monthly Avg	7.3 ug/L	Monthly	Grab	
Chlorine, Total Residual	Weekly Avg	7.3 ug/L	Monthly	Grab	
Temperature Maximum	Daily Max	76 deg F	Weekly	Grab	Limit is effective January and February. See Section 2.2.1.2 for sampling point location.
Temperature Maximum	Weekly Avg	49 deg F	Weekly	Grab	Limit is effective January and November. See Section 2.2.1.2 for sampling point location.
Temperature Maximum	Weekly Avg	50 deg F	Weekly	Grab	Limit is effective in February. See Section 2.2.1.2 for sampling point location.
Temperature Maximum	Daily Max	77 deg F	Weekly	Grab	Limit is effective March and November. See

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
					Section 2.2.1.2 for sampling point location.
Temperature Maximum	Weekly Avg	52 deg F	Weekly	Grab	Limit is effective in March. See Section 2.2.1.2 for sampling point location.
Temperature Maximum	Weekly Avg	55 deg F	Weekly	Grab	Limit is effective in April. See Section 2.2.1.2 for sampling point location.
Temperature Maximum		deg F	Weekly	Grab	Limit is effective in September. See Section 2.2.1.2 for sampling point location.
Temperature Maximum		deg F	Weekly	Grab	Limit is effective in September. See Section 2.2.1.2 for sampling point location.
Temperature Maximum		deg F	Weekly	Grab	Limit is effective in October. See Section 2.2.1.2 for sampling point location.
Temperature Maximum		deg F	Weekly	Grab	Limit is effective in October. See Section 2.2.1.2 for sampling point location.
Hardness, Total as CaCO3	Daily Min	52 mg/L	Monthly	Grab	See Section 2.2.1.6 for sampling point location.
Cadmium, Total Recoverable		ug/L	Monthly	Grab	
Phosphorus, Total		mg/L	Monthly	24-Hr Flow Prop Comp	
Fecal Coliform		#/100 ml	Monthly	Grab	Interim limit effective May through September annually until the final E. coli limit goes into effect per the Effluent Limitations for E. coli Schedule.
Fecal Coliform		#/100 ml	Monthly	Grab	
E. coli		#/100 ml	Monthly	Grab	Monitoring only May through September annually until the final limit

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
					goes into effect per the Effluent Limitations for E. coli Schedule. See E. coli compliance schedule for more info.
E. coli		Percent	Monthly	Grab	Limit Effective May through September annually per the Effluent Limitations for E. coli Schedule. See the E. coli Percent Limit section below and the compliance schedule for more info. Enter the result in the DMR on the last day of the month.
Acute WET		TUa	See Listed Qtr(s)	24-Hr Flow Prop Comp	See Section 2.2.1.7 for more detail.
Chronic WET		TUc	See Listed Qtr(s)	24-Hr Flow Prop Comp	
Chronic WET	Monthly Avg	1.0 TUc	See Listed Qtr(s)	24-Hr Flow Prop Comp	See Section 2.2.1.7 for more detail.

Changes from Previous Permit

No change.

Explanation of Limits and Monitoring Requirements

No change.

3 Schedules

3.1 Emergency Response Plan

Required Action	Due Date
Develop Emergency Response Plan: Develop a written Emergency Response Plan within 30 days of permit coverage, available to the Department upon request.	02/01/2022

3.2 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 within 30 days of this permit being modified.	08/30/2024

3.3 Annual Reports

Required Action	Due Date
Submit Annual Report #1:	01/31/2022
Submit Annual Report #2:	01/31/2023
Submit Annual Report #3:	01/31/2024
Submit Annual Report #4:	01/31/2025
Submit Annual Report #5:	01/31/2026
Ongoing Annual Reports: Continue to submit Annual Reports until permit reissuance has been completed.	

3.4 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.	03/31/2022
Management Plan Annual Update #2: Submit an Annual Update to the Nutrient Management Plan.	03/31/2023
Management Plan Annual Update #3: Submit an Annual Update to the Nutrient Management Plan.	03/31/2024
Management Plan Annual Update #4: Submit an Annual Update to the Nutrient Management Plan.	03/31/2025
Management Plan Annual Update #5: Submit an Annual Update to the Nutrient Management Plan.	03/31/2026
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed.	

3.5 Feed Storage Runoff Controls - Engineering Evaluation

Required Action	Due Date
Retain Qualified Expert: The permittee shall retain a qualified expert to complete an engineering evaluation for the feed storage area and runoff controls and report the name of the expert to the Department.	01/31/2022

Written Description of Existing System: Submit an engineering evaluation that includes a written description of the existing feed storage area runoff control system and its adequacy to meet the conditions found in the Production Area Discharge Limitations subsection and NR 243.15, Wis. Adm. Code.	04/30/2022
Plans and Specifications: Submit plans and specifications for Department review and approval to permanently correct any adverse conditions identified as part of the engineering evaluation for the feed storage area in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code.	12/31/2022
Corrections and Post Construction Documentation: Complete construction of improvements to permanently correct any adverse conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project.	12/31/2023

3.6 Calf Hutch Area Runoff Controls - Engineering Evaluation

Required Action	Due Date
Complete Engineering Evaluation: Retain a qualified expert to complete an engineering evaluation for the calf hutch area and runoff control system and report the name of the expert to the Department.	01/31/2022
Written Description of Existing System: Submit a written description of the existing runoff control system for the calf hutch area and its adequacy to permanently meet the conditions in the Production Area Discharge Limitations and Runoff Control subsections and s. NR 243.15, Wis. Adm. Code. (See Standard Requirements for report details.)	04/30/2022
Plans and Specifications: Submit plans and specifications for Department review and approval to permanently correct any adverse runoff control conditions in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code.	12/31/2022
Corrections and Post Construction Documentation: Complete construction of runoff controls that permanently correct any adverse runoff control conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project.	12/31/2023

3.7 Effluent Limitations for E. coli

Required Action	Due Date
Status Update: The permittee shall submit information within the discharge monitoring report (DMR) comment section documenting the steps taken in preparation for properly monitoring and testing for E. coli including, but not limited to, selected test method and location of sampling.	02/21/2022
Operational Evaluation Report: The permittee shall prepare and submit an Operational Evaluation Report to the Department for review and approval. The report shall include an evaluation of collected effluent data and proposed operational improvements that will optimize efficacy of disinfection at the treatment plant during the period prior to complying with final E. coli limitations and, to the extent possible, enable compliance with the final E. coli limitations. The report shall include a plan and schedule for implementation of the operational improvements. These improvements shall occur as soon as possible, but not later than 04/30/2023. The report shall state whether the operational	11/30/2022

improvements are expected to result in compliance with the final E. coli limitations. The permittee shall implement the operational improvements in accordance with the approved plan and schedule specified in the Operational Evaluation Report and in no case later than 04/30/2023. If the Operational Evaluation Report concludes that the operational improvements are expected to result in compliance with the final E. coli limitations, the permittee shall comply with the final E. coli limitations by 04/30/2023 and the permittee is not required to comply with subsequent milestones identified below in this compliance schedule (‘Submit Facility Plan’, 'Final Plans and Specifications', 'Treatment Plant Upgrade to Meet Limitations', ‘Construction Upgrade Progress Report’, 'Complete Construction', 'Achieve Compliance'). FACILITY PLAN - If the Operational Evaluation Report concludes that operational improvements alone are not expected to result in compliance with the final E. coli limitations, the permittee shall initiate development of a facility plan for meeting final E. coli limitations and comply with the remaining required actions in this schedule of compliance. If the Department disagrees with the conclusion of the report, and determines that the permittee can achieve final E. coli limitations using the existing treatment system with only operational improvements, the Department may reopen and modify the permit to include an implementation schedule for achieving the final E. coli limitations sooner than 04/30/2026.	
Submit Facility Plan: If the Operational Evaluation Report concluded that the permittee cannot achieve final E. coli limitations with operational improvements alone, the permittee shall submit a Facility Plan per s. NR 110.09, Wis. Adm. Code. The permittee may submit an abbreviated facility plan if the Department determines that the modifications are minor.	04/30/2023
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 E. coli limitations and a schedule for completing construction of the upgrades by the complete construction date specified below.	03/31/2024
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 plant upgrades in accordance with the approved plans and specifications.	09/30/2024
Construction Upgrade Progress Report: The permittee shall submit a progress report on construction upgrades.	09/30/2025
Complete Construction: The permittee shall complete construction of wastewater treatment system upgrades.	03/31/2026
Achieve Compliance: The permittee shall achieve compliance with final E. coli limitations.	04/30/2026

3.8 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	07/01/2026

3.9 Explanation of Schedules

Permit section 3.2 Monitoring & Inspection Program has been updated with a due date of August 30, 2024. This submittal reflects an updated monitoring & inspection program that includes the additional waste storage structures.

Other Comments:

The intend of this permit modification is to add three waste storage facilities to support the proposed increase in animal units.

Expiration Date:

December 31, 2026

Justification Of Any Waivers from Permit Application Requirements

None

Prepared By: Jeff Jackson – WDNR Agricultural Runoff Specialist **Date:** May 28, 2024