Permit Fact Sheet

General Information

Permit Number	WI-0063177-04-0
Permittee Name and Address	Williams Bedrock Bovines Inc N1233 Highway G, Brodhead, WI 53520 Brodhead WI 53520
Permit Term	May 01, 2025 to April 30, 2030
Discharge Location	Main Farm - N1233 Hwy G, Brodhead, WI 53520 Jeff's Farm – W1244 Town Center Road, Brodhead, WI 53520
Receiving Water	Unnamed tributaries to Spring Creek within the Lower Sugar River Watershed, and groundwaters of the state
Discharge Type	Existing

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.)	56	0	0	0	
Milking and Dry Cows	1502	1534	0	0	
Heifers (800 lbs. to 1200 lbs.)	363	330	0	0	
Total	1921	1534	0	0	

Facility Description

Williams Bedrock Bovines Inc. is an existing Concentrated Animal Feeding Operation (CAFO). Williams Bedrock Bovines Inc. is owned and operated by Jeff and Brad Williams. The farm currently has 1,921 animal units (1,073 milking and dry cows, 330 heifers, and 280 calves). William Bedrock Bovines Inc. has a total of 3,036 acres (507 owned and 2,529 controlled through manure agreements) of which 2,959 are spreadable acres. Williams Bedrock Bovines Inc. has no large expansions planned during the proposed permit term. Approximately 18,563,977 gallons of manure and process wastewater and 0 tons of solid manure is predicted to be generated in the first year of the permit term. The farm has approximately 188 days of liquid manure storage which will increase to 196 days after the construction of the feed leachate collection system, and at least 59 days of solid manure storage.

Williams Bedrock Bovines Inc. has two production areas. The Main Farm is located at N1233 County Highway G, Brodhead, WI 53520 and is composed of 2 calf barns, a special needs barn, 2 animal barns, milking parlor, sand separation system, three waste storage facilities, and a feed storage area with associated runoff control system. Jeff's Farm

is located at W1244 Town Center Road, Brodhead, WI 53520 and is composed of a freestall barn and waste storage facility. All production areas were inspected the day of the inspection.

Williams Bedrock Bovines Inc. has submitted an application for reissuance of their Wisconsin Pollutant Discharge Elimination System (WPDES) Permit. The application is complete, and the facility has been determined to be in substantial compliance. This will be the fourth permit reissuance for this facility. Williams Bedrock Bovines Inc. has an approved Nutrient Management Plan (NMP) that is written according to WPDES Permit and Chapter NR 243 Wisc. Admin. Code requirements. William Bedrock Bovines Inc. was also found to have at least 180 days of liquid manure storage.

Substantial Compliance Determination

Enforcement During Last Permit: During the last permit term, Williams Bedrock Bovines Inc. received a compliance reminder for outstanding permit schedule items. The facility has completed all previously required actions as part of the enforcement process.

After a desktop review of all compliance schedule items and pertinent documents, and a site visit on September 4, 2024, this facility has been found to be in substantial compliance with their current permit.

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 storage facility 1 (WSF 1) - The Lagoon located at the Main Farm. The Lagoon is a concrete storage on the southwest corner of the site. The facility has a maximum operating level of 7,811,125 gallons and was modified in 2008. This storage accepts manure and process wastewater from the two freestall barns.	
002	Sample point 002 is for liquid waste storage facility 2 (WSF 2) – The Weezer Pit located at the Main Farm. The Weezer pit is a concrete storage on centrally on the site. The facility has a maximum operating level of 902,605 gallons and was constructed in 2007. This storage accepts manure and process wastewater from the parlor, holding area, and the special needs barn.	
004	Sample point 004 is for visual monitoring and inspection of the feed storage area and associated runoff control system located at the Main Farm. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to the operation's monitoring and inspection program. Plans and specifications to upgrade the feed storage area and runoff control have been approved by the department. See schedules section of the permit for construction details.	
005	Sample point 005 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 bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
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.	
012	Sample point 012 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 bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	

Sample Point Designation For Animal Waste		
Sample Point Number	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**	
014	Sample point 014 is for liquid waste storage facility 3 (WSF 3) – The Heifer Pit located at Jeff's Farm. The Heifer Pit is a concrete storage located on the west side of the site. The facility has a maximum operating level of 442,003 gallons and was constructed in 2016. This storage accepts manure and process wastewater from the adjacent heifer barns.	
015	Sample point 015 is for solid manure removed from the sand. The sand separation system is located in the southeast corner of the Lagoon (WSF 1) and the building is located between the two freestall barns. The sand removed is dried and reused as bedding. Solids removed are stored/composted in the solid stacking area.	
016	Sample point 016 is for solid manure that is directly land applied from the concrete stacking pad. The solid stacking pad is located on the southeast corner of the Lagoon (WSF 1) at the Main Farm. This storage accepts solid manure from the sand separation facility. An evaluation of the solid stacking area will be required in this permit term. See permit schedule section for details.	
017	Sample point 017 is for process wastewater land applied from the proposed feed storage runoff collection system located at the Main Farm. Collected feed leachate will be land applied according to the farm's approved NMP. The proposed facility will be 120 x 120 x 6ft deep with an MOL of 282,783 gallons. Plans and specifications for the Leachate Storage were approved November 19, 2024. See permit schedule section for details.	
018	Sample point 018 is for visual monitoring and inspection of all production site stormwater conveyance systems. This includes roof gutter and downspout structures, drainage tile systems, grassed waterways and other diversion systems that transport uncontaminated stormwater. Proper operation and maintenance is required to keep uncontaminated runoff diverted away from manure and process wastewater handling systems. Weekly inspections are required and shall be recorded according to monitoring program.	

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 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 submitted to the Department for approval.

The permittee currently has approximately 188 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.

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 1,921 animal units (1,073 milking & dry cows, 330 heifers, and 280 calves), it is estimated that approximately 17,754,525 gallons of manure and process wastewater and 0 tons of solid manure will be produced per year. The permittee owns *approximately* 507 acres of cropland and rents about 2,529 acres. Given the rotation commonly used by the permittee, 2,959 acres are available (or open) to receive manure and process wastewater on an annual basis. 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 permitee 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 (≥12%

solids) on frozen or snow-covered ground during February and March. Beginning 5/1/2025, 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- WSF1; 002- WSF2; 014- WSF3; 017- Leachate Storage

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

Sample points 001 – WSF 1, 002 – WSF 2, and 014 – WSF 3 were edited to include a more accurate description of facilities and current operations.

Sample point 017 – Leachate Storage, was added to account for the leachate storage that will be constructed at the Main Farm.

1.1.2 Explanation of Operation and Management Requirements

Wastes shall be sampled, stored, and land applied according to permit and nutrient management plan requirements per NR 243, Wis. Admin. Code.

1.2 Sample Point Number: 004- Feed Storage Runoff Controls and 018- Stormwater Runoff Controls

1.2.1 Changes from Previous Permit

Sample point 004 – Feed Storage Runoff Controls, was edited to include a more accurate description of the facilities and current operations.

Sample point 018 – Stormwater Runoff Controls, was added to account for the monitoring and inspection requirements for stormwater runoff controls located around the production area.

1.2.2 Explanation of Operation and Management Requirements

There is no required sampling for runoff controls. Rather, there is a required inspection and routine maintenance that should be recorded on a monitoring and inspection form or calendar. A copy of the inspection records shall be submitted with the Annual Report.

1.3 Sample Point Number: 005- Main Farm Solids; 008- Headland Stacking Sites; 012- Jeff's Farm Solids; 015- Sand Separation, and 016- Solid Stacking Area

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	

1.3.1 Changes from Previous Permit

Sample point 015 – Sand Separation, was added to account for the sand/solid separation facility located at the Main Farm.

Sample point 016 – Solid Stacking Area, was added to account for the solid manure source stacked at the Main Farm.

1.3.2 Explanation of Operation and Management Requirements

Wastes shall be sampled, stored, and land applied according to permit and nutrient management plan requirements per NR 243, Wis. Admin. Code.

2 Schedules

2.1 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.	05/31/2025

2.2 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 the effective date of this permit.	05/31/2025

2.3 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, consitent 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, consitent 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, consitent 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, consitent 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, consitent 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.	

2.4 Nutrient Management Plan

Submit annual nutrient management plan (NMP) updates by March 31 of each year. Note, in addition to annual NMP updates, submit NMP amendments and substantial revisions to the departement for written approval prior to implementation of any changes to the NMP.

Required Action	Due Date
Management Plan Submittal: Submit any necessary updates to the Nutrient Management Plan to meet the conditions outlined in this permit (see conditions in the Livestock Operational and Sampling Requirements section).	
Management Plan Annual Update #1: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department form 3400-025D.	03/31/2026
Management Plan Annual Update #2: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department form 3400-025D.	03/31/2027
Management Plan Annual Update #3: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department form 3400-025D.	03/31/2028
Management Plan Annual Update #4: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department form 3400-025D.	03/31/2029
Management Plan Annual Update #5: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department form 3400-025D.	03/31/2030
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed.	

2.5 Feed Storage - Engineering Evaluation

Complete construction of the leachate collection system approved by the department November 19, 2024.

Required Action	Due Date
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.	11/01/2025

2.6 Solid Stacking Area - Engineering Evaluation

Solid Stacking Area (Sample point 016)

Required Action	Due Date
Retain Expert: Retain a qualified expert to complete an engineering evaluation for the solids stacking area and report the name of the expert to the Department.	05/31/2025
Written Report: Submit a written report evaluating the existing solid stacking area's ability to meet the conditions in the Production Area Discharge Limitations and Manure and Process Wastewater Storage subsections and s. NR 243.15, Wis. Adm. Code. (See Standard Requirements for report details.)	05/31/2026

Plans and Specifications: Submit plans and specifications for Department review and approval in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code, to permanently correct any adverse manure storage conditions.	11/01/2026
Corrections and Post Construction Documentation: Complete construction on the solid stacking area that permanently corrects 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.	11/01/2027

2.7 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	11/01/2029

2.8 Explanation of Schedules

Schedules are included in the permit to ensure compliance with NR 243, Wis. Admin. Code, requirements. All of the Schedule items are typical for a large dairy facility like this one. The schedules contained in 2.1, 2.2, 2.3, 2.4, and 2.7are standard permit schedules.

Schedule section 2.5 is being required as the construction of a new feed storage runoff control system requires corrections and post construction documentation be submitted to the department.

Schedule section 2.6 is being required as the solid stacking area requires department approval and DNR staff review is necessary to ensure design and construction of the facility meets permit discharge limitations.

Other Comments

None

Attachments

Inspection Report with Maps

Nutrient Management Plan Approval Letter

Days of Storage Approval Letter

Public Notice

Justification Of Any Waivers From Permit Application Requirements

N/A

Prepared By: Josie Borgrud Agricultural Runoff Management Specialist Date: 2/28/2025

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
3911 Fish Hatchery Road
Fitchburg WI 53711-5397

Tony Evers, Governor

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TTY Access via relay - 711

October 21, 2024

Jeff Williams
Williams Bedrock Bovines Inc.
N1123 Hwy G
Brodhead, WI 53520

Subject: Site Inspection Summary Letter

Dear Mr. Williams:

On September 4, 2024, the Department of Natural Resources conducted a permit reissuance inspection for Williams Bedrock Bovines Inc., in Brodhead, Green County. A site inspection report including photographs of your sites is attached for your review and convenience. The department has noted action items on page 19.

The current permit for Williams Bedrock Bovines Inc. expires on April 30, 2025. A complete permit reissuance application needs to be submitted to the department via the e-Permitting system by November 1, 2024. Materials needed for a complete permit application are listed below.

1. Livestock/Poultry Operation WPDES Permit Application Form 3400-025
2. Animal Unit Calculation Worksheet Form 3400-025A
3. Nutrient Management Plan Checklist 3400-025B
4. Reviewable Facilities of Systems Checklist
5. Soil survey maps for each site managed by your operation
6. Labeled aerial maps showing the features and structures located at each site managed by your operation (clearly delineate what is existing and proposed)
7. Calculations documenting a minimum of 180 days liquid manure (and process wastewater) storage
8. Supporting documentation for 180-day storage calculations
9. A complete 5-year Nutrient Management Plan (NMP). If necessary, include a description of permanent spray irrigation systems and any other land spreading or treatment systems (proposed or active)
10. Environmental Analysis Questionnaire

If you have additional questions regarding the inspection report or the permitting process, please contact me at josie.borgrud@wisconsin.gov or (608)598-0026.

Sincerely,

Josie Borgrud

Josie Borgrud
Agricultural Runoff Management Specialist

ecc: Laura Bub, Falon French; WDNR
Nikki Wagner, Rock River Labs
Dan Wierzba, MSA
Tonya Gratz, Todd Jenson; Green County

CAFO Compliance Report 10/21/2024

Inspection Date: Wednesday, September 4, 2024

Inspection Type: Permit Reissue

Operation Name: Williams Bedrock Bovines Inc.

WPDES Permit No. WI-0063177-03-0

Operation Address: Main Farm – N1233 County Highway G, Brodhead, WI 53520
Jeff's Farm – W1244 Town Center Road, Brodhead, WI 53520

On-Site Representative(s): Jeff & Brad Williams (owners), Nikki Wagner (Rock River Lab), Dan Wierzba (MSA)

DNR Staff / Report Writer: Josie Hanrahan (CAFO Specialist)

At approximately 10:00 AM on September 4, 2024 Josie Hanrahan with WDNR met with representatives of Williams Bedrock Bovines Inc., Jeff and Brad Williams, Nikki Wagner and Dan Wierzba, and Tonya Gratz from Green County for a WPDES permit reissuance inspection. Williams Bedrock Bovines Inc. exists on two sites, the Main Farm and Jeff's Farm. The Main Farm includes 2 calf barns, a special needs barn, 2 animal barns, milking parlor, sand separation system, three waste storage facilities and a feed storage area with an associated runoff control system. Jeff's Farm includes a freestall barn and a waste storage facility. This was a dry weather inspection, and the temperature was approximately 75°F. No water samples were collected during the inspection, which concluded at approximately 12:00PM.

Figure 1. Labeled, aerial photo of production area; extracted from Google Earth September 2024.

Figure 2 Labeled aerial photo of Williams Bedrock Bovine's Main Farm extracted from Google Earth September 2024.

Figure 3 Labeled aerial photo of Williams Bedrock Bovines - Jeff's Farm extracted from Google Earth September 2024.

Animal Housing

All animals located at the Main Farm are contained under roofed free stall barns except for a small feedlot located on the east side of the special needs barn. The feedlot is sloped to direct all the manure towards the barn where it then gets scraped into WSF 2 – The Weezer Pit.

All animals located at Jeff's Farm are located under roof.

Waste Storage Facilities

Williams Bedrock Bovine's Main Farm has a sand separation system which includes two large slurrystore tanks, an underbarn storage/transfer system, and two concrete lined waste storage facilities – WSF 1 (The Lagoon) and WSF 2 (The Weezer Pit). Waste from the parlor and special needs barn is scraped through a concrete transfer channel to WSF 2 – the Weezer Pit and waste from the free stale barns is sent through a waste transfer system and the sand separation system before being pumped to WSF 1 – the Lagoon.

Jeff's Farm has concrete lined a waste storage facility know as WSF 3 – the Heifer Pit.

Markers were present at all liquid waste storage facilities.

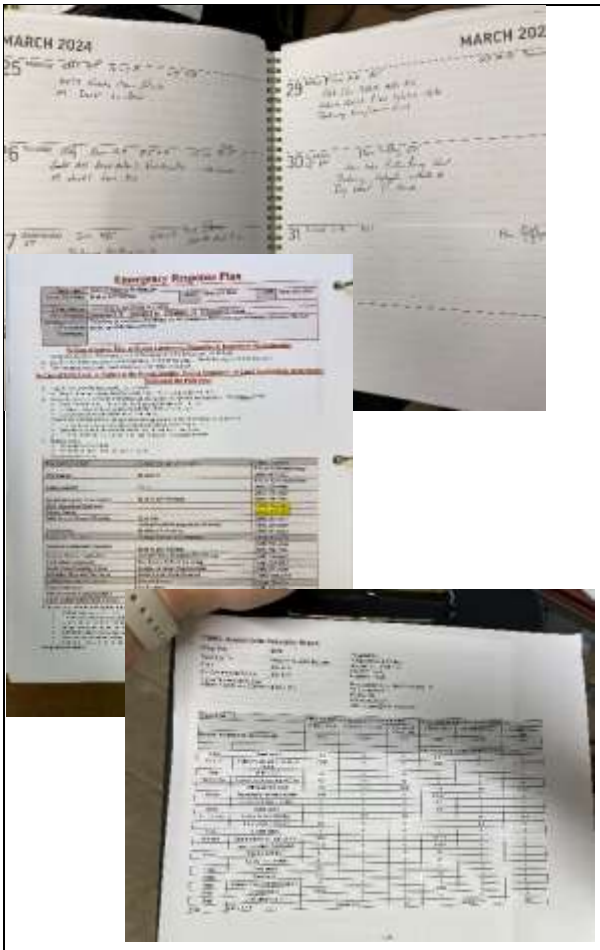
There is also a solid stacking area near the slurrystore tanks by the sand separation system that needs department review.

Feed Storage Area Runoff

The Main Farm feed storage area has a series of 5 concrete feed storage bunkers. Feed storage runoff is collected in two drains which sends the runoff to reception tanks where the first flush gets pumped to WSF 1 – the Lagoon, and the remaining runoff is directed to the vegetated treatment area (VTA). Plans and specifications have been submitted to the department for the construction of a total collection system to replace the VTA system.

Mortality Management

Animal mortalities are collected by Bailey Farms Stock Removal.



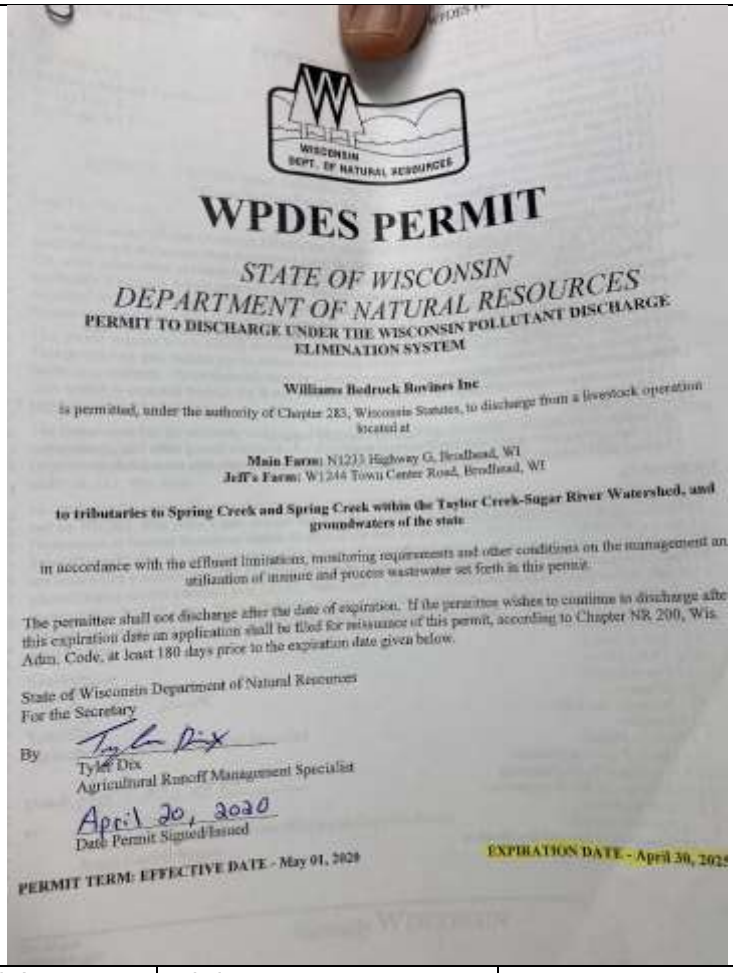


Photo #:	IMG_3622, 23, 26, 31	Date/Time:	9/4/2024	
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Permit and permit documents for file review			

Photo #:	IMG_3634	Date/Time:	9/4/2024	10:33 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Weezer Pit looking west.			

Photo #:	IMG_3636	Date/Time:	9/4/2024	10:34 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Concrete channel to Weezer Pit – looking southwest.			

Photo #:	IMG_3644	Date/Time:	9/4/2024	10:37 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Permanent markers in the Weezer Pit			

Photo #:	IMG_3647	Date/Time:	9/4/2024	10:38 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	The north east corner of The Lagoon looking west			

Photo #:	IMG_3650	Date/Time:	9/4/2024	10:39 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Permanent Markers in The Lagoon			

Photo #:	IMG_3654	Date/Time:	9/4/2024	10:39 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Looking south at the solid stacking area and sand separation building and slurrystorage			

Photo #:	IMG_3655	Date/Time:	9/4/2024	10:43 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Looking into the sand separation building located between the freestall barns			

Photo #:	IMG_3659	Date/Time:	9/4/2024	10:44 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Looking east at the receptions tanks south and west of the freestall barns that go to the sand separation system.			

Photo #:	IMG_3663	Date/Time:	9/4/2024	10:47 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Lift station south of the feed storage area that pumps collected waste from the Weezer pit and feed storage area leak collection systems to the Lagoon			

Photo #:	IMG_3664	Date/Time:	9/4/2024	10:53 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Manhole outside feed storage area and Weezer pit that collects the waste that gets pumped to the Lagoon.			

Photo #:	IMG_3667	Date/Time:	9/4/2024	10:57 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Looking north towards the VTA from between the feed storage area and the machine sheds			

Photo #:	IMG_3670	Date/Time:	9/4/2024	10:58 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Looking east at the feed storage area from the south east corner of the VTA			

Photo #:	IMG_3671	Date/Time:	9/4/2024	10:58 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Concrete sediment basin for feed storage area			

Photo #:	IMG_3672	Date/Time:	9/4/2024	10:58 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Looking west from concrete sediment basin towards reception tanks (red arrows) and fuel tank area			

Photo #:	IMG_3675	Date/Time:	9/4/2024	10:59 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Looking west at the VTA – leachate behind the first spreader bar			

Photo #:	IMG_3679	Date/Time:	9/4/2024	11:00 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Looking north at the VTA			

Photo #:	IMG_3681	Date/Time:	9/4/2024	11:04 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Looking west at the VTA			

Photo #:	IMG_3683, 84	Date/Time:	9/4/2024	11:06 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	VTA leachate collection inlets			

Photo #:	IMG_3685	Date/Time:	9/4/2024	11:07 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Feed Storage bunker looking south			

Photo #:	IMG_3688	Date/Time:	9/4/2024	11:07 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Commodity shed			

Photo #:	IMG_3690	Date/Time:	9/4/2024	11:10 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Calf barn			

Photo #:	IMG_3692	Date/Time:	9/4/2024	11:13 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Gate installed to keep cows inside the feed lot area where the manure is pitched towards the barn			

Photo #:	IMG_3693	Date/Time:	9/4/2024	11:14 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Main Farm	
Description:	Outdoor feedlot – looking west from the south side of the feedlot			

Photo #:	IMG_3697	Date/Time:	9/4/2024	11:39 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Jeff's Farm	
Description:	Looking northwest at the heifer pit from the southeast corner			

Photo #:	IMG_3698	Date/Time:	9/4/2024	11:39 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Jeff's Farm	
Description:	Permanent markers in the Heifer Pit – located in the southwest corner of the storage			

Photo #:	IMG_3700	Date/Time:	9/4/2024	11:40 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Jeff's Farm	
Description:	Concrete pushout area into the Heifer Pit – looking northeast from the south side of the pit			

Photo #:	IMG_3701	Date/Time:	9/4/2024	11:47 AM
Photo taken by:	J. Borgrud	Photo Location	Williams Bedrock Bovines – Jeff's Farm	
Description:				

Records Review

The permittee has current WPDES Permit and Nutrient Management Plan onsite.
The permittee provided complete production site inspection records that are required to be retained.
The permittee provided adequate documentation that the facility has a minimum of 180 days of liquid manure storage capacity.
The permittee provided land application records to demonstrate compliance with nutrient management plan requirements.
The permittee has copies of their emergency response and monitoring, and inspection plans onsite.
The permittee is up to date on required reporting and actions as specified in the Schedules section of permit.

SUMMARY

Department staff discussed with farm representatives the upcoming reissuance application deadline. The farm confirmed a current herd size of 1,921 mixed animal units, consisting of 1,073 milking and dry cows, 330 heifers 800-1,200lbs., and 280 calves. The farm has plans in to construct a total collection feed storage runoff collection system.

Areas of Concern

- Fencing around WSF 1 – The Lagoon is missing in some areas
- Solid Stacking Area is missing department approval

Action Items

- Install safety fencing around WSF 1 – The Lagoon
- Submit an evaluation of the Solid Stacking Area

Items for Next Permit Term

- Submit Post-construction reports for feed storage runoff collection system
- Submit an evaluation for the solid stacking area.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St., PO Box 7921
Madison, WI 53707

Tony Evers, Governor
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

February 27th, 2025

Green County
Approval

Jeff Williams
Williams Bedrock Bovines, Inc
N1123 Hwy G
Brodhead, WI 53520

SUBJECT: Amended Conditional Approval of Williams Bedrock Bovines, Inc Nutrient Management Plan, WPDES Permit No. 0063177-04-0

Dear Jeff Williams:

After completing a review of Williams Bedrock Bovines, Inc 2025-2029 Nutrient Management Plan (NMP) the Wisconsin Department of Natural Resources (Department) is providing conditional approval that it is consistent with Nutrient Management Requirements in s. NR 243, Wis. Adm. Code. This part of your WPDES permit application is now ready for the public notice and comment process as required by Ch. 283 Stats.

Before applying manure onto approved fields each season, the Department recommends Williams Bedrock Bovines, Inc review the NMP with those individuals involved with manure applications to ensure all remain familiar with the approved manure spreading protocol, spreading maps, field and map verification, record keeping requirements, and all the conditions of this approval. Specifically, some fields in Williams Bedrock Bovines, Inc may have:

- Soils that may have bedrock or groundwater within 24 inches of surface,
- Multiple setback areas due to streams, conduits to streams, grassed waterways, wetlands or wells, and
- Evidence of possible soil erosion/flow channels. Note: road ditches or other man-made channels may be considered flow channels or conduits to navigable water and may be subject to a SWQMA and setback.

Reviewing the NMP and checking fields for these features and soil conditions prior to manure applications will help Williams Bedrock Bovines, Inc maintain compliance with their WPDES permit and Ch. NR 243 requirements.

FINDINGS OF FACT

The Department confirms that:

1. A current dairy herd size of 1,921 animal units (1,073 milking & dry cows, 330 heifers, and 280 calves).
2. Manure generation and spreading records indicate your herd will annually generate approximately 17,754,525 gallons of manure and process wastewater and 0 tons of solid manure in the first year of the permit term. Once facility changes occur with collection, the facility will annually generate approximately 18,563,977 gallons of manure and process wastewater and 0 tons of solid manure by 2026.
3. The use of application restriction options 1 and 5 within surface water quality management areas.
4. The use of phosphorus delivery method P Index.

5. That Williams Bedrock Bovines, Inc currently has 3,036 acres (507 owned and 2,529 controlled through contracts, rental agreements or leases, or under manure agreements) of which 2,959 are spreadable acres.
6. That some fields included in the NMP are directly adjacent to or have high potential to deliver nutrients and sediment to Spring Creek (listed 303(d) impaired water by 'sediment/total suspended solids'), Juda Branch, Ok Creek & Riley School Branch (listed 303(d) impaired water by 'sediment/total suspended solids' & 'total phosphorus'), Sugar River (listed 303(d) impaired water by 'total phosphorus').
7. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to outstanding/exceptional waters.
8. That 3 fields are tiled.
    - Dairy
    - Jeffs
    - Rods Bottom

9. That all fields will be checked for the following features prior to/during manure or process wastewater applications: soil areas with possible shallow groundwater (i.e., within 24 inches of surface) at the time of manure application; required setbacks associated with wells, navigable waters, conduits to navigable waters, grassed waterways, wetlands, possible soil erosion/flow channels.
10. That surface applications of manure will not be completed when precipitation capable of producing runoff is forecasted within 24 hours of the time of planned application.

CONDITIONAL NUTRIENT MANAGEMENT PLAN APPROVAL

The Department hereby approves the 2025-2029 Williams Bedrock Bovines, Inc Nutrient Management Plan subject to the following conditions and the applicable requirements of Ch. NR 243, Wis. Adm. Code:

FIELD AND MANURE MANAGEMENT

1. Fields not included in the NMP and new fields shall not receive manure or process wastewater applications until they have been properly soil sampled, entered into Snap Plus, evaluated for their nutrient needs, and approved by the Department.

2. The following fields have also been approved to receive industrial, municipal, or septage waste:

Field ID:	DNR #:	Other Permittee Name:	Other Permittee Field ID:
Dales E	104579	BYTEC RESOURCE MANAGEMENT INC MONROE	C
Dales W	74105	BYTEC RESOURCE MANAGEMENT INC MONROE	B
Dales W	104579	BYTEC RESOURCE MANAGEMENT INC MONROE	C
Jones S	74611	BYTEC RESOURCE MANAGEMENT INC MONROE	A
Juda N	73825	BYTEC RESOURCE MANAGEMENT INC MONROE	B
Juda N	73826	BYTEC RESOURCE MANAGEMENT INC MONROE	C
Laubes	74612	BYTEC RESOURCE MANAGEMENT INC MONROE	B
Mohns	113647	BYTEC RESOURCE MANAGEMENT INC MONROE	A
Mohns	113648	BYTEC RESOURCE MANAGEMENT INC MONROE	B
Mohns	113649	BYTEC RESOURCE MANAGEMENT INC MONROE	C

Mohns	113759	BYTEC RESOURCE MANAGEMENT INC MONROE	A
Scott Davis	104579	BYTEC RESOURCE MANAGEMENT INC MONROE	C

Prior to any manure applications on these fields Williams Bedrock Bovines, Inc shall contact the entities listed above to obtain recent spreading records and make the necessary adjustments to the planned manure application rates. At the end of each year Williams Bedrock Bovines, Inc shall contact each entity listed above to obtain spreading records from the previous year so that they can be properly tracked in the NMP. Please Note: Williams Bedrock Bovines, Inc is responsible for obtaining nutrient content values for all other wastes spread on any field in their NMP.

3. The following fields are prohibited from receiving applications of manure or process wastewater:

- Montefelt NW (expired soil test)
- Montefelt Pond (expired soil test)
- Montefelt S (expired soil test)
- Scheideger (default)

If Williams Bedrock Bovines, Inc wishes to use these fields for applications of manure or process wastewater all necessary information shall be submitted to the Department prior to application to demonstrate compliance with NR 243 and other applicable codes. Written Department approval amending this condition approval must be received prior to application.

4. If existing fields yield a soil test results equal to or greater than 200 ppm P, those fields would be prohibited from receiving manure or process wastewater applications, unless you obtain Department approval in accordance with NR 243.14(5)(b)2., Wis. Adm. Code.

5. All liquid manure samples collected may be analyzed, at a minimum, for percent dry matter, total nitrogen, percent NH_4-N, percent NO_3-N, phosphorus, potassium, and sulfur.

6. If manure sample results have a dry matter (DM) content less than 2.0% and the percent ammonium (NH_4^+) is greater than 75% of the total N, Williams Bedrock Bovines, Inc may use the following equation to adjust the first year available nitrogen when applications are injected or incorporated within 1 hour:

$$\text{First-Year Available N} = NH_4\text{-N} + [0.25 \times (\text{Total N} - NH_4\text{-N})]$$

7. Williams Bedrock Bovines, Inc shall record daily manure applications by using form 3200-123A. These forms shall be retained at the farm and provided to the department upon request.

8. Williams Bedrock Bovines, Inc shall annually submit a spreading report that summarizes the land application activities listed under NR 243.19(3)(c)5., Wis. Adm. Code by using form 'CAFO Annual Spreading Reports' as generated by Snap Plus.

WINTER SPREADING

9. Liquid manure applications during winter conditions, as defined by NR 243.14(7), Wis. Adm. Code, are prohibited with the exception of emergency applications.

10. The following field(s) are approved for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:

- Dairy
- Strathman Big
- Jeffs

11. Winter spreading of solid and liquid manure may not occur during the "high risk runoff period" pursuant to s. NR 243.14(6)(c) and NR 243.14(7)(c), respectively.

12. Winter applications of liquid manure shall only occur under emergency situations, after notifying the Department and receiving verbal approval.

13. Liquid applications shall be limited to 3,500 gallons per acre or 30 lbs. P per acre, whichever is less, on slopes 2-6% and 7,000 gallons per acre or 60 lbs. P per acre, whichever is less, on slopes 0-2%. Winter applications of solid manure shall be limited to 60 lbs. P per acre.

HEADLAND STACKING

14. No headland stacking sites are approved.

MANURE & PROCESS WASTEWATER IRRIGATION

15. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

16. A copy of this conditional approval shall be included in all future annual Nutrient Management Plan Updates in addition to the NR 243 and NRCS 590 checklists.

This conditional approval does not limit the Department's regulatory authority to require NMP revisions (based upon new information or manure irrigation research findings) or request additional information in order to confirm or ensure your farm operation remains in compliance with NR 243 and your WPDES permit conditions. If additional information, project changes or other circumstances indicate a possible need to modify this approval, the Department may ask you to provide further information relating to this activity.

Please keep in mind that approval by the Department of Natural Resources – Runoff Management Program does not relieve you of obligations to meet all other applicable federal, state or locate permits, zoning and regulatory requirements.

If you have any questions regarding this approval, I can be reached at 608-212-8460 or Ashley.Scheel@Wisconsin.gov.

Sincerely,

Ashley Scheel, CCA
WDNR Nutrient Management Plan Reviewer
Wisconsin Department of Natural Resources

cc: Josie Borgrud, WDNR Agricultural Runoff Specialist (Josie.Borgrud@Wisconsin.gov)
Laura Bub, WDNR Watershed Field Supervisor (Laura.Bub@Wisconsin.gov)
Christopher Clayton, WDNR Runoff Management Section Chief (Christopherr.Clayton@Wisconsin.gov)

Aaron O'Rourke, WDNR Nutrient Management Program Coordinator (Aaron.Orourke@Wisconsin.gov)
Falon French, WDNR Intake Specialist (Falon.French@Wisconsin.gov)
Rob Davis, WDNR CAFO Engineer (Robert.Davis@Wisconsin.gov)
Todd Jenson, Green County (Todd.Jenson@Wi.nacdnet.net)
Nikki Wagner, Rock River Laboratory (Nikki_Wagner@Rockriverlab.com)
File

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WISCONSIN DEPT. OF NATURAL RESOURCES

November 18, 2024

FILE REF: R-2024-0259
WPDES Permit #: WI-0063177

Jeff Williams
Williams Bedrock Bovines Inc.
N1123 Highway G
Brodhead, WI 53520

Subject: Days of Storage Review for Williams Bedrock Bovines in T01N, R09E, Section 21, Spring Grove Township, Green County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Williams:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has completed its review of the calculation of days of storage submitted by Nikki Wagner, Rock River Laboratory, Inc. on October 4, 2024 on behalf of Williams Bedrock Bovines.

The Department reviewed the submitted calculations in accordance with ss. NR 243.14(9) and NR 243.15(3)(i) to (k), Wis. Adm. Code. Under s. NR 243.17(3)(c), Wis. Adm. Code, the permittee shall demonstrate compliance with the 180-day design storage capacity requirement at specified times. For the following liquid manure storage calculations, the Department has determined **no additional actions** on your part are required.

Days of Available Liquid Waste Storage: The submitted information states that Williams Bedrock Bovines currently has 188 days of liquid waste storage based on the volumes listed in the table below with respect to s. NR 243.15(3)(i) to (k), Wis. Adm. Code. The current number of animal units provided for the calculation is 1,921. The farm is planning to construct a storage that will be used to collect only process wastewater from the feed storage runoff (DNR Project R-2024-0206) in the spring of 2025 which will increase the days of available liquid waste storage to 196, as shown below in the proposed conditions. There is currently a first flush collection system which provides feed storage runoff collection for the first 1.14 inches. The proposed PWW storage facility will provide full collection of feed leachate and contaminated runoff from the feed storage area up to the 25-yr, 24-hr storm event. This will be stored separately from the liquid manure and therefore will not count against the days of liquid manure storage for the farm. The PWW storage facility will provide 70 days of liquid waste storage for the process wastewater. The number of animal units will remain at 1,921 for the future condition with no noted plans for expansion. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values. The liquid waste volumes are based upon a collection period of 365 days. The annual liquid waste volume that will be accounted for in the NMP is 18,563,977 gallons (17,090,839 + 1,473,138) with 1,473,138 gallons being managed in the proposed PWW only storage.

Existing Conditions (1,921 AU) – 188 Days of Storage

Total Annual Liquid Waste Volume (NRCS Table Values)	
Liquids Collected/Stored	**Annual Gallons**
Manure, Bedding, and Parlor Wastewater:	15,110,257
Total Feed Storage Leachate:	22,440

Total Feed Storage Runoff Collected:	641,246
Feedlot Runoff Collected:	39,125
Net Precipitation on Storage Surfaces:	1,941,457
Total Liquid Waste Stored Below the MOL:	**17,754,525**

Total Liquid Waste Storage Capacity (Gallons)						
Waste Storage	Total Volume from Top to Bottom	-Remaining Solids	-25-yr, 24-hr Precipitation on Storage	-25-yr, 24-hr Collected Runoff	-Freeboard Volume	Max. Operating Level (MOL) Volume
WSF 2	9,374,178	0	432,804	0	1,130,249	7,811,125
WSF 3	1,044,806	0	42,412	5,621	94,168	902,605
WSF 4	550,528	0	33,660	1,561	73,304	442,003
					Total MOL Volume:	9,155,733

Proposed Conditions (1,921 AU) – 196 Days of Storage

Total Annual Liquid Waste Volume (NRCS Table Values)	
Liquids Collected/Stored	**Annual Gallons**
Manure, Bedding, and Parlor Wastewater:	15,110,257
Total Feed Storage Leachate:	0
Total Feed Storage Runoff Collected:	0
Feedlot Runoff Collected:	39,125
Net Precipitation on Storage Surfaces:	1,941,457
Total Liquid Waste Stored Below the MOL:	**17,090,839**

Total Liquid Waste Storage Capacity (Gallons)						
Waste Storage	Total Volume from Top to Bottom	-Remaining Solids	-25-yr, 24-hr Precipitation on Storage	-25-yr, 24-hr Collected Runoff	-Freeboard Volume	Max. Operating Level (MOL) Volume
WSF 2	9,374,178	0	432,804	0	1,130,249	7,811,125
WSF 3	1,044,806	0	42,412	5,621	94,168	902,605
WSF 4	550,528	0	33,660	1,561	73,304	442,003
					Total MOL Volume:	9,155,733

Should you have any questions, please contact Rob Davis, DNR Madison office or your regional CAFO Specialist.

NOTICE OF APPEAL RIGHTS

If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to WIS. STAT. §§ 227.52 and 227.53, you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to WIS. STAT. § 227.42, you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with WIS. ADMIN. CODE § NR 2.05(5), and served on the Secretary in accordance with WIS. ADMIN. CODE § NR 2.03. The filing of a request for a contested case hearing does not extend the 30-day period for filing a petition for judicial review.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

Bernie Michaud, P.E.
CAFO Engineer Supervisor
Watershed Management Program

Rob Davis, P.E.
CAFO Review Engineer
Watershed Management Program

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