Permit Fact Sheet

General Information

Permit Number	WI-0058343-07-0
Permittee Name and Address	Dairymens Inc PO Box 289, Boulder Junction, WI 54512
Permitted Facility Name and Address	Dairymens Inc 10750 Dairymens Rd, Boulder Junction, WI 54512
Permit Term	February 01, 2026 to December 31, 2030
Discharge Location	10750 Dairymen's Road, SE ¼ NE ¼ of section 6; T42N-R7E
Receiving Water	Groundwater in Manitowish River of Chippewa River (upper) in Vilas County
Discharge Type	Existing seasonal discharger

Facility Description

The permittee owns and operates a Country Club located approximately 5 1/2 miles north of Boulder Junction. The Club consists of two lodges, a golf course, tennis courts, several housekeeping cottages, and a laundry. The club houses and cottages are served by a combination of septic tanks with drain fields and holding tanks and are not included under this permit coverage.

The laundry facility consists of 6 washing machines operating 7 days per week. Since the laundry is an unheated building, it operates from April to November. Treatment is provided in a spray irrigation system that is composed of a dosing chamber that meters wastewater to two cells. In each cell is a series of drip lines allow distribution of wastewater. The cover crop is composed of grasses and woody plants taking up nutrients and water. The water not used by the cover crop percolates through the soil eventually reaching groundwater.

One of the lakes within the permittee's property, Big Crooked Lake, is open to non-members. To keep aquatic invasive species (AIS) out of that lake, others on the property and downstream water systems a boat washing station was installed. Diluted chlorine (bleach) is sprayed on incoming boats followed by a power wash using well water. All runoff is discharge to groundwater through an upland gravel lot.

Substantial Compliance Determination

All conditions and standard requirements of the current WPDES permit are being met. After a desk top review of all Dairymens Inc discharge monitoring reports and a site visit on October 29, 2025, by Brooke Klingbeil, WDNR, this facility has been found to be in substantial compliance with their current permit.

Sample Point Descriptions

Sample Point Designation		
Sample Point Number	**Discharge Flow, Units, and Averaging Period**	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**
001	An average of 1,935 gpd over 84 days each year. (2020-2024 data)	Representative grab samples of laundromat wash water shall be collected directly from the spray irrigation system pipe during periods of discharge. The laundromat is in operation April through November.

Sample Point Designation		
Sample Point Number	**Discharge Flow, Units, and Averaging Period**	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**
002	New outfall previously covered under Low Impact GP	The permittee maintains a boat washing station on Big Crooked Lake during the summer months. All incoming boats are cleaned and decontaminated to prevent the spread of aquatic invasive species (AIS).

Permit Requirements

1 Land Treatment – Monitoring and Limitations

1.1 Sample Point Number: 001- DISCHARGE TO SPRAY IRRIGATION

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		gpd	Monthly	Total Daily	Flow monitoring is required when the laundromat is open, April - November. Measured by a Badger water meter.
BOD5, Total		mg/L	Annual	Grab	
Nitrogen, Total Kjeldahl		mg/L	Annual	Grab	
Nitrogen, Nitrite + Nitrate Total		mg/L	Annual	Grab	
Chloride		mg/L	Annual	Grab	

Changes from Previous Permit:

Effluent limitations and monitoring requirements were evaluated for this permit term and no changes were required in this permit section.

Explanation of Limits and Monitoring Requirements

All requirements for land treatment of industrial wastewater are determined in accordance with ch. NR 214, Wis. Adm. Code. All categorical limits are based on ch. NR 214 Subchapter II (14) Wis. Adm. Code. More information on the limitations can be found in the Dairymen's WWTF – Groundwater Evaluation Report dated January 2, 2024.

Forms – The flow is recorded on monthly discharge monitoring forms April through November. The other parameters are recoded on an annual monitoring form.

1.2 Sampling Point (Outfall) 002 - BOAT WASHING STATION,

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		gal/yr	Annual	Estimated	

Changes from Previous Permit:

This is a new outfall this permit term. This discharge was previously covered under WPDES general permit WI-0066575 for Low-Impact Discharge. An estimate of the annual flow rate approximates the water used at the washing station.

2 Schedules

2.1 Land Treatment Management Plan

A management plan is required for the land treatment system.

Required Action	Due Date
Land Treatment Management Plan: Submit an update to the management plan to optimize the land treatment system performance and demonstrate compliance with Wisconsin Administrative Code NR 214.	04/30/2026

Explanation of Schedule

Land Treatment Management Plan - An up-to-date Land Treatment Management plan is a standard requirement in reissued industrial permits per ch. NR 204, Wis. Adm. Code.

2.2 Boat Washing Management Plan

Required Action	Due Date
Boat landing management plan: Submit an update to the management plan. The plan shall include adequate practices so that; oil sheen or film is absent, there are no objectionable odors or color, there is no floating or submerged solids, foam, scum, debris or other indicators of pollution. Adequate runoff and erosion control to keep discharges from reaching the surface water. A method to track the use of chlorine that will be kept onsite that can be presented on request.	04/30/2026

Explanation of Schedule

Boat Washing Management Plan – Compliance at the boat washing station is shown by adherence to the management plan developed to keep pollutants from entering waters of the state. The permittee may use or update as needed the Best Management Practice Plan (Form 3400-240) submitted to the department via coverage under the WPDES general permit WI-0066575 for Low-Impact Discharge

Other Comments

Dairymen's Inc is not required to monitor groundwater through a monitoring well(s) system. In accordance with NR 206.10(3)(c) Wis. Adm. Code, if the design flow is less than 0.015 MGD, the Department may require groundwater monitoring if there is reason to believe contamination of groundwater is occurring. The facility's wastewater is from domestic sources and historically has had very high effluent quality, therefore, groundwater monitoring this permit term is not required.

Attachments

Water Flow Schematic updated 10-2025
Dairymen's WWTF – Groundwater Evaluation Report dated January 2, 2024

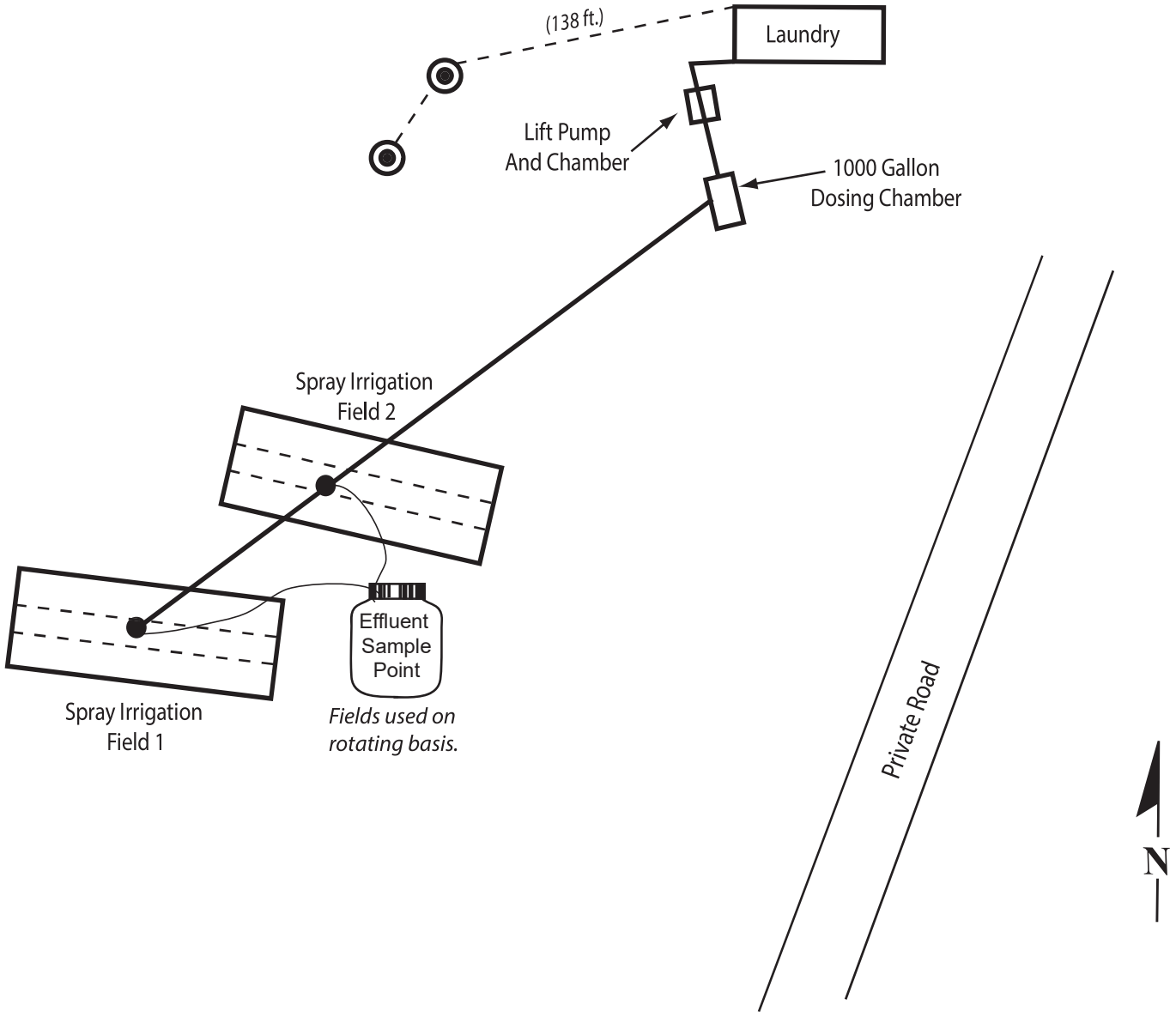
Justification Of Any Waivers From Permit Application Requirements

No waivers requested or granted as part of this permit reissuance

Prepared By: Sheri A. Snowbank Wastewater Specialist **Date:** October 31, 2025

DAIRYMENS, INC.
Wastewater Treatment Facility

Dairymens owns and operates a country club with a laundry facility. The laundry operates from April through November. The washwater is treated in a spray irrigation system. The treatment system consists of 2 cells approximately 150 ft. in length by approximately10 ft. in width for a total of approximately .07 acres.



Potable Wells

Represents Sample Points and Valve Locations

NOT TO SCALE

Construction Year: 1990

CORRESPONDENCE/MEMORANDUM

State of Wisconsin

DATE: January 2, 2024 FILE REF: 10067

TO: File

FROM: Woody Myers - WCR

SUBJECT: Dairymen's Inc. - Groundwater Evaluation Report Addendum,
WPDES Permit # WI-0058343

Site Information

The Dairymen's Wastewater Treatment Facility is located at 10750 Dairymen's Road, Boulder Junction, Vilas County. This is regulated as an industrial wastewater treatment system. Wastewater from a laundromat is discharged to groundwater via a ridge and furrow land treatment system located in the SE ¼ of the NE ¼ of Section 6, T42N, R7E, Town of Boulder Junction.

Geology

The bedrock under this facility is a metasedimentary complex that ranges from meta-sandstone to meta-conglomerate. There is minor interbedding with marble and meta-volcanic rock. Bedrock is anticipated to be deeper than 200 feet below ground surface (bgs). The regolith consists of material ranging silty sand to sand. Surface soil primarily consists of the Pence sandy loam.

Hydrogeology

Region groundwater is variable in this area of Vilas County. The site is directly between Wolf Lake to the north and Big Crooked Lake to the south.

Conclusions

This facility's land treatment system was designated a ridge & furrow (R&F); however, it lacks many of the s. NR 214.13 (2) Wis. Adm. Code Design and Construction Criteria. During deeper evaluation of the land treatment system the facility's design and operation are very close to the s. NR 214.14 Wis. Adm. Code spray irrigation system. The department is re-designating the land treatment system from a R&F to a spray irrigation system.

Three s. NR214.06 Wis. Adm. Code Exemption are being granted by the department:
This system uses a drip system which is consistent with the requirements. The department is granting an exemption from the s. NR 214.14 (2) (f) Wis. Adm. Code requirements for the type of cover crop. Trees and other forest floor vegetation is approved.

The s. NR 214.14 (5) (b) Wis. Adm. Code requirement for cover crop removal is approved to be modified from twice a year to annual removal of dead-fall wood and raking leave away from the drip lines. This change should be annotated in the land treatment management plan.

Given the low volume of daily discharge and relatively low concentration of pollutants in the wastewater the department is approving discharge without seasonal limitations (s. NR 214.14 (3) (g) Wis. Adm. Code. It is understood that given the source of wastewater the volumes during the winter will be significantly lower due to the facility being used only seasonally (spring, summer & fall). The system should be operated so that the discharge is applied evenly.

No changes are being recommended for the discharge application rates or the effluent sampling parameters or associated limits at this time. If the operation is extended the assumption in this document will need to be reevaluated.