



Total permitted animal capacity from all permits for this site:

1,400 milking cows (plus associated dries and replacements)

1,250 beef finishers

In consideration of Decision Summary RA24011, Approval RA24011 is issued to:

Name: Bertens Holsteins Ltd. (the “permit holder”)
Address: RR 4 Site 9 Box 19 Olds, AB T4H 1T8
Contact person: Ad Bertens

Permitted construction (based on the submitted site plan):

- Freestall barn extension - 132 m x 44.2 m (433 ft. x 145 ft.) Total dimensions (308 m x 44.2 m)
- Heifer shelter - 117 m x 12.2 m (384 ft. x 40 ft.)
- Manure storage pad 3 (attached to heifer shelter)- 24.4 m x 42.7 m (80 ft. x 140 ft.)
- Loose housing barn (brought forward from RA20035) – 176 m x 24 m

The permit holder shall comply with the requirements of the *Agricultural Operation Practices Act* (AOPA) and the regulations passed pursuant to that Act.

The permit holder shall adhere to the descriptions, the site plan, building plans, operating plan, and other attached documents included with filed Applications RA24011 and RA20035.

The permit holder shall contact the NRCB at least 10 working days in advance of the desired inspection date to schedule the inspection in conditions 3, 6, and 9.

The permit holder is responsible for all costs associated with monitoring, sampling, testing, recording, and reporting requirements (this includes post construction reports).

Construction conditions

Heifer shelter

1. Construction completion deadline

The permit holder shall complete construction of the heifer shelter prior to December 1, 2027. Upon request, this deadline may be extended by the NRCB in writing.

2. Concrete

The concrete used to construct the manure collection and storage liner of the heifer shelter must meet the specifications for category C (solid manure – wet) in Technical Guideline Agdex 096-93 “Non-Engineered Concrete Liners for Manure Collection and Storage Areas”. The permit holder shall provide written proof to the NRCB confirming the specifications of the concrete used. This document must be provided to the NRCB prior to the inspection referenced in condition 3, below, or by a later date stated by the NRCB.



3. Post construction inspections (prior to populating facilities)

The permit holder shall not place livestock or manure in the heifer shelter until the NRCB has inspected the facility and stated in writing that it has been constructed in accordance with this approval.

Solid manure storage pad

4. Construction completion deadline

The permit holder shall complete construction of the solid manure storage pad prior to December 1, 2027. Upon request, this deadline may be extended by the NRCB in writing.

5. Concrete

The concrete used to construct the manure collection and storage liner of the solid manure storage pad must meet the specifications for category C (solid manure – wet) in Technical Guideline Agdex 096-93 “Non-Engineered Concrete Liners for Manure Collection and Storage Areas”. The permit holder shall provide written proof to the NRCB confirming the specifications of the concrete used. This document must be provided to the NRCB prior to the inspection referenced in condition 6, below, or by a later date stated by the NRCB.

6. Post construction inspections (prior to populating facilities)

The permit holder shall not place manure on the solid manure storage pad until the NRCB has inspected the facility and stated in writing that it has been constructed in accordance with this approval.

Freestall barn

7. Construction completion deadline

The permit holder shall complete construction of the freestall barn prior to December 1, 2027. Upon request, this deadline may be extended by the NRCB in writing.

8. Concrete

The concrete used to construct the manure collection and storage liner of the freestall barn must meet the specifications for category B (liquid manure shallow pits) and category C (solid manure – wet) in Technical Guideline Agdex 096-93 “Non-Engineered Concrete Liners for Manure Collection and Storage Areas”. The permit holder shall provide written proof to the NRCB confirming the specifications of the concrete used. This document must be provided to the NRCB prior to the inspection referenced in condition 9, below, or by a later date stated by the NRCB.

9. Post construction inspections (prior to populating facilities)

The permit holder shall not place livestock or manure in the freestall barn until the NRCB has inspected the facility and stated in writing that it has been constructed in accordance with this approval.



Loose housing barn (carried forward from RA20035)

10. Concrete

The concrete used to construct the manure collection and storage liner in the loose housing barn must be sulphate resistant and have a minimum 56-day compressive strength of 30 MPa. The permit holder shall provide proof, prepared by a qualified third party, to the NRCB confirming the specifications of the concrete used in the construction of the barn's liner.

This document must be provided to the NRCB prior to the inspection referenced in condition three, or by a later date stated in writing by the NRCB.

11. Construction completion deadline

The permit holder shall complete construction of the loose housing barn prior to November 1, 2028.

12. Post construction inspection

The permit holder shall not allow livestock or manure in the loose housing barn until it has been inspected by NRCB personnel, and confirmed by them in writing, to have been constructed in accordance with the terms and conditions of this approval.

This approval becomes effective immediately. The approval conditions will remain in effect unless amended in writing by the NRCB.

Previously issued Approval RA20035 is hereby superseded, and its content consolidated into this Approval RA24011, unless Approval RA24011 is held invalid following a review and decision by the NRCB's board members or by a court, in which case Approval RA20035 will remain in effect.

March 13, 2025

(Original signed)

Nathan Shirley
Approval Officer



Approval RA24011 – Appendix

Existing permitted facilities

Facility	Dimensions (m)	Permit
Sand reclamation facility	92 m x 41 m	RA20035
Freestall barn (includes attached transfer alley)	176 m x 48 m	RA15006 amended by RA20035
Milking barn	109 m x 48 m	RA15006 amended by RA20035
Manure handling facility (bedding master)	30 m x 24 m (100 ft. x 80 ft.)	RA15006
Equipment barn	7 m x 20 m (24 ft. x 65.5 ft.)	RA15006
Synthetic lined liquid manure storage facility	125 m x 125 m x 4.5 m	RA20035
Feedlot pens	220 m x 30 m total dimensions	RA06013A
Solid manure storage pads 2	15 m x 21 m	RA06013A
Solid manure storage pad 1	15 m x 16.5 m	RA06013A
Hay shed	100 m x 17 m	RA06013A

Construction conditions (brought forward from Approval RA20035 and already met)

Freestall barn (including attached transfer alley)

1. Construction above water table
The permit holder shall immediately cease construction of the free stall barn, and contact the NRCB immediately, if the water table is observed to be one metre or less from the bottom of the manure storage and collection liner of this facility during construction.

2. Concrete
The concrete used to construct the manure collection and storage liner in the free stall barn must be sulphate resistant and have a minimum 56-day compressive strength of 30 MPa. The permit holder shall provide proof, prepared by a qualified third party, to the NRCB confirming the specifications of the concrete used in the construction of the barn’s liner. In addition to this, the third party must also provide proof that the transfer alley has adequate crack control (see Technical Guideline 096-93, Category C). This document must be provided to the NRCB prior to the inspection referenced in condition seven, or by a later date stated in writing by the NRCB.

3. Construction completion deadline
The permit holder shall complete construction of the free stall barn prior to November 1, 2024. Upon request, this deadline may be extended by the NRCB in writing.



4. Post construction inspection

The permit holder shall not allow livestock or manure in the free stall barn until it has been inspected by NRCB personnel, and confirmed by them in writing, to have been constructed in accordance with the terms and conditions of this approval.

Milking barn

5. Construction above water table

The permit holder shall immediately cease construction of the milking barn, and contact the NRCB immediately, if the water table is observed to be one metre or less from the bottom of the manure storage and collection liner during construction.

6. Concrete

a. The concrete used to construct the manure collection liner (scrape alleys) in the milking barn must be sulphate resistant and have a minimum 56-day compressive strength of 30 MPa. The permit holder shall provide proof, prepared by a qualified third party, to the NRCB confirming the specifications of the concrete used in the construction of the scrape alley's liner. This document must be provided to the NRCB prior to the inspection referenced in condition eleven, or by a later date stated in writing by the NRCB.

b. The concrete used to construct the manure storage liner (pit) in the milking barn must be sulphate resistant and have a minimum 56-day compressive strength of 32 MPa. The permit holder shall provide proof, prepared by a qualified third party, to the NRCB confirming the specifications of the concrete used in the construction of the pit's liner. This document must provide proof of a bentonite strip sealant (or an equivalent product) used in concrete joints or concrete penetrations and be provided to the NRCB prior to the inspection referenced in condition eleven, or by a later date stated in writing by the NRCB.

7. Construction completion deadline

The permit holder shall complete construction of the milking barn prior to November 1, 2024. Upon request, this deadline may be extended by the NRCB in writing.

8. Post construction inspection

The permit holder shall not allow livestock or manure in the milking barn until it has been inspected by NRCB personnel, and confirmed by them in writing, to have been constructed in accordance with the terms and conditions of this approval.

Sand reclamation facility

9. Construction above water table

The permit holder shall immediately cease construction of the sand reclamation facility, and contact the NRCB immediately, if the water table is observed to be one metre or less from the bottom of the manure storage and collection liner during construction.



10. Concrete

The concrete used to construct the manure collection and storage liner in the sand reclamation facility must be sulphate resistant and have a minimum 56-day compressive strength of 32 MPa. The permit holder shall provide proof, prepared by a qualified third party, to the NRCB confirming the specifications of the concrete used in the construction of the facility's liner. This document must provide proof of rubber sealants (or an equivalent product) used in concrete joints or concrete penetrations and be provided to the NRCB prior to the inspection referenced in condition fifteen, or by a later date stated in writing by the NRCB.

11. Construction completion deadline

The permit holder shall complete construction of the sand reclamation facility prior to November 1, 2024. Upon request, this deadline may be extended by the NRCB in writing.

12. Post construction inspection

The permit holder shall not allow manure in the sand reclamation facility until it has been inspected by NRCB personnel, and confirmed by them in writing, to have been constructed in accordance with the terms and conditions of this approval.

Solid manure storage pad

13. Concrete

The concrete used to construct the manure storage liner in the solid manure storage pad must be sulphate resistant and have a minimum 56-day compressive strength of 30 MPa. The permit holder shall provide proof, prepared by a qualified third party, to the NRCB confirming the specifications of the concrete used in the construction of the pad's liner. This document must be provided to the NRCB prior to the inspection referenced in condition eighteen, or by a later date stated in writing by the NRCB.

14. Construction completion deadline

The permit holder shall complete construction of the pad prior to November 1, 2024. Upon request, this deadline may be extended by the NRCB in writing.

15. Post construction inspection

The permit holder shall not place manure on the pad until it has been inspected by NRCB personnel, and confirmed by them in writing, to have been constructed in accordance with the terms and conditions of this approval.

Synthetically lined liquid manure storage

16. Construction above water table

The permit holder shall immediately cease construction of the synthetically lined liquid manure storage, and contact the NRCB immediately, if the water table is observed to be one metre or less from the bottom elevation of the synthetically lined liquid manure storage during its construction.



17. Liner requirement

The permit holder shall provide the NRCB with a written construction completion report for the synthetically lined liquid manure storage. The report shall be stamped and signed by a professional engineer, as defined in the Standards and Administration Regulation, and must confirm that this facility:

- is constructed in the location as proposed on page six of Technical Document RA20035,
- inlet pipe is located in the lower quarter of the structure
- has the correct horizontal and vertical dimensions as stated in Technical Document RA20035, including elevations above and below grade, berm heights, and side slopes
- was constructed in accordance with the specifications (with except for the new dimensions and location in Application RA20035) stated in Envirowest Engineering Inc.'s May 12, 2015 Site Assessment and Design, Manure Storage Lagoon report including:
 - i. that the sub-base for the liner was properly prepared,
 - ii. a 60 mil HDPE liner was installed,
 - iii. that the liner was installed in accordance with the liner manufacturer's requirements
 - iv. results of seam test results, including repair details (if any) and quality testing results for the liner material
- that any materials placed on top of the liner such as GEOWEB 3D Concrete Channels, inlet splash pad, access ramps, and agitation pads were installed in a manner that will not compromise the synthetic liner

This document must be provided to the NRCB prior to the inspection referenced in condition twenty two, or by a later date stated in writing by the NRCB.

18. Construction completion deadline

The permit holder shall complete construction of the synthetically lined liquid manure storage prior to November 1, 2024. Upon request, this deadline may be extended by the NRCB in writing.

19. Post construction inspection

The permit holder shall not allow manure in the new synthetically lined liquid manure storage until it has been inspected by NRCB personnel and determined by them, in writing, to have been constructed in accordance with the terms and conditions of this approval.

Construction conditions (brought forward from Approval RA15006)

Concrete solid manure storage pad (formerly condition 26)

- The permit holders shall complete construction of the manure collection and storage portions of the concrete solid manure storage pad prior to December 30, 2017. Upon request, this deadline may be extended by the NRCB in writing.
- The permit holders shall not place manure on the concrete solid manure storage pad until the NRCB has inspected the pad.



Livestock pens (formerly condition 27)

- The permit holders shall complete construction of the livestock pens prior to December 30, 2017. Upon request, this deadline may be extended by the NRCB in writing. The permit holders shall not place manure on the concrete solid manure storage pad until the NRCB has inspected the pad.