



In consideration of Decision Summaries RA19033 and RA19033A, Authorization RA19033A is issued to:

Name: De Knar Farms Ltd. and Andrea Verhoef (the “co-permit holders”)
Address: 37139 RR10 Red Deer County AB T4N 1T4
Contact person: Andrea Verhoef

Permitted facilities - already constructed (based on the submitted site plan):

- Triangular concrete pad for calf hutches (31.5 m x 39 m x 50 m)
- Manure storage pad addition (final dimension 30 m x 50 m)

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

The co-permit holders shall adhere to the descriptions contained in Application RA19033, together with the site plan, building plans and other attached documents, unless otherwise noted in Decision Summary RA19033A and in the following conditions.

The co-permit holders are responsible for all costs associated with monitoring, sampling, testing, recording and reporting requirements.

Operating condition

1. Water well testing

The co-permit holders shall conduct water quality tests in accordance with Water Well Monitoring Statement RA19033A, unless otherwise directed in writing by the NRCB.

This authorization becomes effective immediately and needs to be read in conjunction with deemed approval (including Red Deer County municipal development permit D-491-02) and Authorization RA21035. The authorization conditions will remain in effect unless amended in writing by the NRCB.

Authorization RA19033 is hereby cancelled and is no longer in effect, unless Authorization RA19033A is held invalid, in which case Authorization RA19033 will remain in effect.

August 13, 2021

(Original Signed)
Jeff Froese
Approval Officer



Authorization RA19033A – Appendix

Existing permitted facilities

Facility	Dimensions (m)	From
Pen (includes livestock shelter)	Irregular shaped, overall dimensions are 90 x 60	Deemed permit, including Red Deer County municipal development permit D-491-02
Calf hutch shed	L-shaped, 44 x 5 and 31 x 5	
Pregnant heifer barn	78 x 12	
Manure storage pad	52 x 22 (pre-expansion)	

Construction conditions (brought forward from Authorization R19033)

1. Decommissioning or reclamation of water well 436281
Before starting construction of the above permitted facilities, the co-permit holders must properly reclaim water well 436281 (see Technical Document RA19033, page 18 for the well’s location). Written confirmation prepared by a qualified third party must be provided to the NRCB and Alberta Environment and Parks confirming that the water well has been properly decommissioned or reclaimed in accordance with the *Water Wells and Ground Source Heat Exchange Systems Directive*.
2. Protection of water well 491391
The co-permit holders shall mound and compact soil around water well 491391 before starting construction of the above permitted facilities. The compacted, mounded soil must be high enough to prevent any surface water from reaching the well and to prevent water from ponding around the well.
3. Construction of run-on and run off controls
 - a. The co-permit holders shall construct a run-on control that will direct clean surface water away from the pen and solid manure storage pad. The run-on control must be must be constructed so that all clean surface water is directed away from these facilities.
 - b. The co-permit holders shall construct a berm that will contain manure impacted run off in the pen and from the solid manure storage pad in those facilities. The berm must be constructed so that all manure impacted runoff from these facilities will be contained in those facilities.

Triangular pad for calf hutches (31.5 m x 39 m x 50 m)
(referred to previously as the shed for calf hutches, 36.6 m x 24.4 m)

4. Concrete
The concrete used to construct the manure storage liner of the shed for calf hutches must be sulphate resistant and have a minimum 56-day compressive strength of 30 MPa. The permit holder shall provide documentation, prepared by a qualified third party, to the NRCB to confirm the specifications of the concrete used in the construction. This document must be provided to the NRCB prior to the inspection referenced in condition 6 below, or by a



later date stated in writing by the NRCB.

5. Construction completion deadline
The permit holder shall complete the construction of the shed for calf hutches prior to November 30, 2020. Upon written request, this deadline may be extended by the NRCB in writing.
6. Post construction inspection
The permit holder shall not place livestock or manure in the shed for calf hutches until the NRCB have inspected it and stated in writing that the barn has been constructed in accordance with the terms and conditions of this authorization.

Manure storage pad addition

10. Concrete
The concrete used to construct the manure storage liner of the addition on to the manure storage pad must be sulphate resistant and have a minimum 56-day compressive strength of 30 MPa. The co-permit holders shall provide documentation prepared by a qualified third party, to the NRCB to confirm the specifications of the concrete used in the construction. This document must be provided to the NRCB prior to the inspection referenced in condition 12 below, or by a later date stated in writing by the NRCB.
11. Construction completion deadline
The co-permit holders shall complete the construction of addition on to the manure storage pad prior to November 30, 2020. Upon written request, this deadline may be extended by the NRCB in writing.
12. Post construction inspection
The co-permit holders shall not place livestock or manure in the addition on to the manure storage pad until the NRCB have inspected it and stated in writing that it has been constructed in accordance with the terms and conditions of this authorization.