

## Part 2 — Technical Requirements

Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

<b>NRCB USE ONLY</b>  <input type="checkbox"/> Approval <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Authorization <input type="checkbox"/> Amendment	Application number <div style="border-bottom: 1px solid black; padding-bottom: 2px;">RA25007</div>	Legal land description <div style="border-bottom: 1px solid black; padding-bottom: 2px;">NE 12-45-27 W4M</div>
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### APPLICATION DISCLOSURE

This information is collected under the authority of the *Agricultural Operation Practices Act* (AOPA), and is subject to the provisions of the *Freedom of Information and Protection of Privacy Act*. This information is public unless the NRCB grants a written request that certain sections remain private.

**Any construction prior to obtaining an NRCB permit is an offence and is subject to enforcement action, including prosecution.**

I, the applicant, or applicant's agent, have read and understand the statements above, and I acknowledge that the information provided in this application is true to the best of my knowledge.

<div style="border-bottom: 1px solid black; padding-bottom: 2px;">Feb 10 2025</div> Date of signing	<div style="border-bottom: 1px solid black; padding-bottom: 2px;"> </div> Signature
<div style="border-bottom: 1px solid black; padding-bottom: 2px;">Talona Springs Holstein Ltd</div> Corporate name (if applicable)	<div style="border-bottom: 1px solid black; padding-bottom: 2px;">Nanning Zeldensust</div> Print name

### GENERAL INFORMATION REQUIREMENTS

**Proposed facilities:** list all proposed confined feeding operation facilities and their dimensions. Indicate whether any of the proposed facilities are additions to existing facilities. (attach additional pages if needed)

Proposed facilities	Dimensions (m) (length, width, and depth)
New Calf barn (2025 calf barn)	48.8 m x 12.5 m
Outdoor group hutch	40. m x 10 m
AO note: hutch area will be fully covered by a roof	

**Existing facilities:** list ALL existing confined feeding operation facilities and their dimensions

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY

#### NRCB USE ONLY

See next page for list of facilities



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If a new facility is replacing an old facility, please explain what will happen to the old facility and when.

☒ N/A

Construction completion date for proposed facilities Sept. 2026

Additional information

**Livestock numbers:** Complete only if livestock numbers are different from what was identified in the Part 1 application. Note: if livestock numbers increase in your Part 2 application, a new Part 1 application must be submitted which may result in a loss of priority for minimum distance separation (MDS).

Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	Permitted number	Proposed increase or decrease in number (if applicable)	Total
Milking cows	400	0	400
No proposed increase in livestock numbers			



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### DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

issued by Alberta Environment and Protected Areas (EPA) for a confined feeding operation (CFO)

Date and sign one of the following four options

#### OPTION 1: Applying through the NRCB for both the AOPA permit and the Water Act licence

I **DO** want my water licence application coupled to my AOPA permit application.

Signed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Signature of Applicant or Agent

#### OPTION 2: Processing the AOPA permit and Water Act licence separately

1. I (we) acknowledge that the CFO will need a new water licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant the *Water Act* licence application.
5. I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7. **Provide:** Water licence application number(s) \_\_\_\_\_

Signed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Signature of Applicant or Agent

#### OPTION 3: Additional water licence not required

1. I (we) declare that the CFO will not need a new licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. **Provide:** Water license number(s) or water conveyance agreement details \_\_\_\_\_

Signed this 10 day of Feb., 2025.

\_\_\_\_\_  
Signature of Applicant or Agent



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### **OPTION 4: Uncertain if *Water Act* licence is needed; acknowledgement of risk (for existing CFOs only)**

1. At this time, I (we) do not know whether a new water licence is needed from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. If a new *Water Act* licence is needed, I (we) request that the NRCB process the AOPA application **independently** of EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with additional livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant my *Water Act* licence application, if a new water licence is needed.
5. I (we) acknowledge that any such construction or livestock increase will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7. **Provide:** Water license number(s) or water conveyance agreement details \_\_\_\_\_

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
*Signature of Applicant or Agent*







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### GENERAL ENVIRONMENTAL INFORMATION

(complete this section for the worst case of the existing facility which is the closest to water bodies or water wells and for each of the proposed facilities)

Facility description / name (as indicated on site plan)

Existing: Calf barn

Proposed 1: New calf barn, with outdoor calf hutch area

Proposed 2: \_\_\_\_\_

Proposed 3: \_\_\_\_\_

Facility and environmental risk information		Facilities				NRCB USE ONLY	
		Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
Flood plain information	What is the elevation of the floor of the lowest manure storage or collection facility above the 1:25 year flood plain or the highest known flood level?	<input checked="" type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Not located within floodplain
	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None, confirmed
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	2	2			<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES with exemption	3 wells located ~95 m from proposed construction (see next page)
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	250 m	250 m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Slough ~350 m south of proposed construction
Groundwater information	What is the depth to the water table?	4 m	4 m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Previously assessed at ~5 m
	What is the depth to the groundwater resource/aquifer you draw water from?	6.1 m	6.1 m.			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	16.8 m identified in well drilling logs

Additional information (attach supporting information, e.g. borehole logs, records, etc. you consider relevant to your application)



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### NRCB USE ONLY

#### WATER WELL AND SURFACE WATER INFORMATION

Well IDs: 132155 132156 (to be decommissioned) house well (no log; not on EPA database)  
2089761 9701092

Surface water related concerns from directly affected parties or referral agencies: ☐ YES ☒ NO

Groundwater related concerns from directly affected parties or referral agencies: ☐ YES ☒ NO

**Water wells** ☐ N/A

If applicable, exemption for 100 m distance requirements applied: ☒ YES ☐ NO Condition required: ☒ YES ☐ NO

**Surface water** ☒ N/A

If applicable, exemption for 30 m distance requirements applied: ☐ YES ☐ NO Condition required: ☐ YES ☐ NO

**Water Well Exemption Screening Tool** ☐ N/A

Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility
House well *see note below			
132155	20 = continue to next section	7 = exemption more likely	Calf barn

#### Groundwater or surface water related comments:

Applicant has committed to having WW ID 132156 decommissioned. A condition will be included in the permit requiring the well to be decommissioned.

The house well, which is located approximately 95 meters from the proposed construction, does not exist in the EPA database and therefore, no log information is available. The current Approval RA16072A includes an exemption for the well, and a condition requiring monitoring which remains in effect. Due to the ongoing monitoring of this well, and because the proposed construction meets AOPA requirements, an exemption will be granted for the proposed calf barn.



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### NRCB USE ONLY

### ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for **proposed** facilities

Facility	Groundwater score	Surface water score	File number
New calf barn	Low	Low	RA25007
Group hutch area	Low	Low	RA25007

ERST for **existing** facilities

Facility	Groundwater score	Surface water score	File number
New EMS	Low	Low	RA16072
Dairy barn	Low	Low	RA16072
Calf barn	Low	Low	RA12040
Dry cow/heifer barn	Low	Low	RA12040

ERST related comments:



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### DISTANCE OF ANY MANURE STORAGE FACILITY (EXISTING OR PROPOSED) TO NEIGHBOURING RESIDENCES

Neighbour name(s)	Legal land description	Distance (m)	NRCB USE ONLY				
			Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Allen Reimer	SE-13-045-27	205	Ag	1	205	N/A for all	Yes, see comment below
Duane Menke	SW-13-045-27	490	Ag	1	480		Yes
Joop Zeldemust	SW-18-045-26	595	Ag	1	595		Yes

### LAND BASE FOR MANURE AND COMPOST APPLICATION (complete only if an increase in livestock or manure production will occur)

Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	NRCB USE ONLY	
				Usable area (ha)	Agreement attached (if required)
N/A for authorization applications					
Total					

\* If you are **not** the registered landowner, you must attach copies of land use agreements signed by all landowners.

\*\* Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 [Manure Spreading Regulations](#))

\*\*\* Brown, dark brown, black, grey wooded, or irrigated

**Additional information (attach any additional information as required)**



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### NRCB USE ONLY

#### MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): Google Earth

Margin of error (if applicable): +/- 3 m

Requirements (m): Category 1: 449 Category 2: 599 Category 3: 749 Category 4: 1,198

Technology factor: ☐ YES ☒ NO

Expansion factor: ☐ YES ☒ NO

MDS related concerns from directly affected parties or referral agencies: ☐ YES ☒ NO

AO note: Under section 3(5)(c) of the Standards and Administration Regulation, because the proposed construction is within the existing footprint of the CFO, the MDS requirement is met.

#### LAND BASE FOR MANURE AND COMPOST APPLICATION

Land base required: \_\_\_\_\_ N/A for authorization applications

Land base listed: \_\_\_\_\_

Area not suitable: \_\_\_\_\_

Available area: \_\_\_\_\_ Requirement met: ☐ YES ☐ NO

Land spreading agreements required: ☐ YES ☐ NO

Manure management plan: ☐ YES ☐ NO If yes, plan is attached: ☐

#### PLANS

Submitted and attached construction plans: ☐ YES ☒ NO

Submitted aerial photos: ☒ YES ☐ NO

Submitted photos: ☐ YES ☒ NO

#### GRANDFATHERING

Already completed: ☒ YES ☐ NO ☐ N/A

If already completed, see RA08013



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### SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner

(complete a copy of this section for **EACH** barn, feedlot, and storage facility for solid manure, composting materials, or compost with a concrete liner)

Facility description / name (as indicated on site plan) 1. New Calf Barn.  
2. Outdoor group hutch area

#### Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	<b>NRCB USE ONLY</b> Estimated storage capacity (m³)
1.	48.8 m	12.5 m	0	
2.	40 m	10 m	0	
TOTAL CAPACITY				Sufficient storage

☒ I plan to use a short-term solid manure storage (STMS) as part of my manure storage and handling plan for this CFO. The AOPA requirements for STMS are set out in the NRCB [Short-Term Solid Manure Storage Requirements Fact Sheet](#).

#### Surface water control systems

Describe the run-on and runoff control system

- Inclosed facility  
- Water is diverted away.

#### Liner protection

Describe how the physical integrity of the liner will be maintained

Check for cracks.

#### NRCB USE ONLY

Requirements met: ☒ YES ☐ NO



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### SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner (cont.)

#### Concrete liner details

Concrete thickness <b>5"</b>	Method of sulphate protection: <b>20% flyash.</b>
Concrete strength <b>25 mpa.</b>	Concrete reinforcement size and spacing <b>10 mm rebar @ 15" o/c both ways.</b>

Concrete requirements can be found in Technical Guideline Agdex 096-93

Guideline minimums:  
Solid manure: 25MPa (D)  
Solid manure (wet): 30MPa (C)  
Method of sulphate protection:  
Type 50 or Type 10 with fly ash or equivalent

#### NRCB USE ONLY

Requirements met: ☒ YES ☐ NO  
Condition required: ☒ YES ☐ NO  
Report attached: ☐ YES ☒ NO

#### Additional information (attach as required)

<b>NRCB USE ONLY</b>	
Nine month manure storage volume requirements met <input type="checkbox"/> YES	<input checked="" type="checkbox"/> YES With STMS <input type="checkbox"/> NO
Depth to water table: <b>~5 m</b>	Requirements met: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Depth to Uppermost groundwater resource: <b>16.8 m</b>	Requirements met: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
ERST completed: <input checked="" type="checkbox"/> see ERST page for details	
<b>Surface water control systems</b>	
Requirements met: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Details/comments:
<b>Concrete liner details</b>	
A condition will be included in the permit requiring the concrete to meet the minimum standards for category D (solid manure - dry) set out in Technical Guideline Agdex 096-93.	
Leakage detection system required: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If yes, please explain why.	



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### NRCB USE ONLY

#### ALL SIGNATURES IN FILE

☒ YES ☐ NO

#### DATES OF APPROVAL OFFICER SITE VISITS

Feb 10, 2025	

#### CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: February 11, 2025

Municipality: Wetaskiwin County

☒ letter sent ☒ response received ☒ written/email ☐ verbal ☐ no comments received

**Alberta Health Services:** ☒ N/A

☐ letter sent ☐ response received ☐ written/email ☐ verbal ☐ no comments received

**Alberta Environment and Parks:** ☐ N/A

☒ letter sent ☒ response received ☒ written/email ☐ verbal ☐ no comments received

**Alberta Transportation:** ☐ N/A

☒ letter sent ☒ response received ☒ written/email ☐ verbal ☐ no comments received

**Alberta Regulatory Services:** ☐ N/A

☒ letter sent ☒ response received ☒ written/email ☐ verbal ☐ no comments received

**Other:** Apex Utilities Inc., Axiom Oil and Gas Inc. ☐ N/A

☒ letter sent ☒ response received ☒ written/email ☐ verbal ☐ no comments received

**Other:** Mancal Energy Inc. and Lynx Energy ULC. ☐ N/A

☒ letter sent ☐ response received ☐ written/email ☐ verbal ☒ no comments received