

# LA25023 Technical Document

## 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>	Application number	Legal land description
<input type="checkbox"/> Approval <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Authorization	<b>LA25023</b>	<b>SE 33-11-23 W4M</b>
<input type="checkbox"/> Amendment		

### 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.

March 13 2025

Date of signing  
Footstep Farms

Randy Vanden Broek Digitally signed by Randy Vanden Broek  
Date: 2025.03.13 16:22:25 -06'00'

Signature  
Randy Vanden Broek

Corporate name (if applicable)

Print name

### GENERAL INFORMATION REQUIREMENTS

<b>Proposed facilities:</b> 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)
Addition to north side of existing 40 by 60 shop. Duck barn 1 18.3 m x 9.8 m +7.3 m x 2.4 m x 0.9 m deep pit (to be attached to the ancillary facility/shop)	60ft by 32ft
Duck barn 2 18.3 m x 24.4 m +7.3 m x 2.4 m x 0.9 m deep pit	

<b>Existing facilities:</b> list <b>ALL</b> existing confined feeding operation facilities and their dimensions		
Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Insulated pole building shop to convert for feed storage.	60ft by 40ft	
<b>NRCB USE ONLY</b> Application for a new CFO		
I was notified by the applicant that the existing 40 x 60 shop that will be modified to be used for feed storage, bedding, and egg handling was not permitted by Lethbridge County. As this facility will be used in relation to the CFO, but not for manure collection or storage, it is an ancillary facility and will be included in the application.		
The duck runs are also ancillary as these are optional outdoors areas for the ducks and will not collect or store manure.		

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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 August 30 2025

### Additional information

The plan is that the existing shop will be used for storage of bedding materials and feed, as well as space to handle and store the eggs. The shop is heated, so we will be venting the new barn outside, and the negative pressure will pull in heated air from the shop space.

The addition will be build with a concrete floor in 24 feet of it, and 8ft along the north side will be a 3 foot deep pit with slate to contain spilled water from the duck drinkers. Pits: 7.3 m x 2.4 m x 0.9 m deep each

These pits will contain manure and manure contaminated water, therefore a condition will be required that the concrete used to construct the pits need to meet the specifications for category B - liquid manure.

**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
No change from part 1 application.			
Ducks	0	1,350	1,350

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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 \_\_\_\_\_  
Water currently sufficient from LNID. (PA23113321SE)

Signed this 13 day of March, 2025.

Randy Vanden Broek  
Digitally signed by Randy Vanden Broek  
Date: 2025.03.13 16:22:06 -06'00'  
\_\_\_\_\_  
*Signature of Applicant or Agent*



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## Duck barn 1

AO note: the existing shop will be modified to store duck feed, bedding, and to handle the duck eggs





Train Track

Short Legal 2011974  
Block 2, Lot 1

SE 33-11-23 W4

2028 barn sites

Proposed barn site

About 250m

New  
neighbours  
yard

Runoff Pattern,  
over 1000m

SW 34-11-23 W4

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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: Pole building shop

Proposed 1: 32 by 60 duck barn addition Duck barn 1 & 2

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	Confirmed not in a flood plain.
Surface water information	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 observed during site visit
	How many water wells are within 100 m of the manure storage facility or manure collection area?	1	1			<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES with exemption	WW 221823 30m away from proposed duck barn
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	1040m	1040m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Keho Lake > 1km to the east
Groundwater information	What is the depth to the water table?	2-5m	2-5m			<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES with exemption	WW 221823 static water level at 20 ft (6 m)
	What is the depth to the groundwater resource/aquifer you draw water from?	20m	20m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Applicant had a water well driller out and confirmed water is drawn from 20 mbgs

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

The well we have on our place is an old well that has always have very salty water. We have not used this well in the past 2 years since the salinity is too high for plants to grow on, and it is also too high for poultry.

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### NRCB USE ONLY

#### WATER WELL AND SURFACE WATER INFORMATION

Well IDs: WW ID 221823

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
221823	22 continue to next section	17 exemption more likely	Duck barn 1
221823	22 continue to next section	18 exemption more likely	Duck barn 2

**Groundwater or surface water related comments:**



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### NRCB USE ONLY

### ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for **proposed** facilities

Facility	Groundwater score	Surface water score	File number
Duck barn 1	Low	Low	LA25023
Duck barn 2	Low	Low	LA25023

ERST for **existing** facilities

Facility	Groundwater score	Surface water score	File number
None - application for a new CFO			

ERST related comments:

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

### 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
Edwin DeKok	SE 33-11-23 W4	250m+	Rural Ag	1	250		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)
Randy Vanden Broek	SE 33-11-23 W4 B2, L1	1.5	Brown	1.5	
Edwin DeKok	SE 33-11-23 W4	30	Brown	30	Yes
Total				31.5	

\* 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)

Manure that gets hauled to our neighbor will be added to his compost pile until he is able to spread it.

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### NRCB USE ONLY

#### MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): Site visit and aerial imagery

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

Requirements (m): Category 1: 150\* Category 2: 150\* Category 3: 155 Category 4: 248

Technology factor: ☐ YES ☒ NO

Expansion factor: ☐ YES ☒ NO

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

\* The caculated MDS for category 1 and 2 are 93 m and 124 m, respectively. However, AOPA stipulates that the minimum MDS is 150 m.

#### LAND BASE FOR MANURE AND COMPOST APPLICATION

Land base required: 1.1 ha

Land base listed: 31.5 ha

Area not suitable: already subtracted

Available area: 31.5 ha

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 \_\_\_\_\_



# Manure Spreading Agreement

This agreement is between Randy Vanden Broek, manure producer, and  
Edwin dekok manure receiver.

Length of agreement: This agreement is valid for a time period of 5 years  
(minimum of one year)

Legal land location	Soil type <sup>1</sup>	Acres suitable for manure spreading <sup>2</sup>
SE-33-11-23-W4	Brown	90 acres

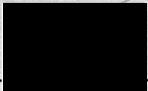
<sup>1</sup> Soil type choices: Dark brown and brown, Grey wooded, Black, Irrigated.

<sup>2</sup> Land within required setbacks from water bodies, water wells, residences, etc. is not to be included.

Other comments:

**Manure producer** (Confined Feeding Operation ) Legal Land Location SE, 33-11-23 W4

March 14, 2025  
Date of signing


  
Signature

Randy Vanden Broek  
Print name

Footstep Farms  
Corporate name(if appl)

**Manure Receiver – Landowner(s)<sup>3</sup>**

March 14, 2025  
Date of signing

  
Signature

Edwin dekok  
Print name

Oasis Outpost  
Corporate name(if appl)

\_\_\_\_\_  
Date of signing

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print name

\_\_\_\_\_  
Corporate name(if appl)

<sup>3</sup> All registered owners of land, or authorized signing authorities must sign.



## Part 2 – Technical Requirements

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### LIQUID MANURE COLLECTION AND/OR STORAGE: In-barn - Concrete liner

(complete a copy of this section for **EACH** proposed in-barn liquid manure storage facility with a concrete liner)

Facility description / name (as indicated on site plan)

1. New Barn Duck barn 1 with in-barn pit
2. Duck barn 2 with in-barn pit
3. In-barn pits (x2)

Pits near the waterers will contain manure and manure contaminated water. Otherwise, manure will be solid-dry in the unslatted portion of the barns.

Manure storage capacity (use one row in the table for **EACH** in-barn storage. Attach additional pages if you require more rows)

	Length (m)	Width (m)	Total depth (m)	Depth below ground level (m)	<b>NRCB USE ONLY</b> Calculated storage capacity (m <sup>3</sup> )
1.	18.3	9.75	.91	.61	
2.	18.3	24.4	0.91	0.61	
3.	7.3	2.4	0.91	0.61	15.9 m <sup>3</sup> x 2 = 31.8 m <sup>3</sup>
TOTAL CAPACITY					31.8 Sufficient with STMS

#### Concrete liner details

Scrape alleys or unslatted portions of barn floors (if applicable)	Concrete thickness 5 inches		Method of sulphate protection Type 50 Cement	
	Concrete strength 32 MPa		Concrete reinforcement size and spacing 3/8" on 16 inch grid	
In-barn manure pit floors	Concrete thickness 5 inches		Method of sulphate protection Type 50 Cement	
	Concrete strength 32 MPa		Concrete reinforcement size and spacing 3/8 on 16 inch grid	
In-barn manure pit walls	Concrete thickness 8 inch		Method of sulphate protection Type 50 Cement	
	Concrete strength 32 MPa	Horizontal reinforcement size and spacing 3/8 on 12 inch	Vertical reinforcement size and spacing 3/8 on 16 inch	

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### LIQUID MANURE COLLECTION AND/OR STORAGE: In-barn - Concrete liner (cont.)

Describe how the joints at the junction of the pit walls, pit floors and any other joints will be sealed

I will be putting a rubber insert sealer between the pit floor and walls.

Describe sealing practices for piping, etc. that penetrates the liner

There will be no piping penetrating the concrete walls or floors.

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

Guideline minimums:

Solid manure (wet): 30MPa (C)

Liquid manure: 32MPa (B)

Category A is required to be engineered

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

#### Additional information

#### NRCB USE ONLY

Liquid manure storage volume calculator attached: ☐ YES ☒ NO

Depth to water table: 6 m

Requirements met: ☒ YES ☐ NO

Depth to uppermost groundwater resource: 20 m

Requirements met: ☒ YES ☐ NO

ERST completed: ☒ see ERST page for details

#### Concrete liner requirements

Leakage detection system required: ☐ YES ☒ NO If yes, please explain why

Condition requiring documentation that the concrete used to construct the duck barn liner to meet the specifications for category D (solid manure - dry) and the concrete used to construct the duck barn pits to meet the specifications for category B (liquid manure) in Technical Guideline Agdex 096-93 "Non-Engineered Concrete Liners for Manure Collection and Storage Areas"

Last updated: 31 Mar 2020

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NRCB USE ONLY

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### NRCB USE ONLY

#### ALL SIGNATURES IN FILE

☒ YES ☐ NO

#### DATES OF APPROVAL OFFICER SITE VISITS

April 1, 2025	

#### CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: April 1, 2025

Municipality: Lethbridge 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: Little Bow Gas Coop Ltd ☐ N/A

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

Other: \_\_\_\_\_ ☐ N/A

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