

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)

NRCB USE ONLY	Application number RA24037	Legal land description SE 21-41-24 W4M
<input type="checkbox"/> Approval <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Authorization <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.

August 28 2024

 Date of signing
 Wilpshaar Dairy Ltd

 Corporate name (if applicable)

 Signature
 Herco Wilpshaar

 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)
renovation to sawdust room to Sand Bedding recycling room	4.5m x 3m x 2m
no new building to be constructed	

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
heifer barn	67mx30.5m	confirmed
dry cow shed	29.75mx16m	confirmed
free stall barn	92.7mx32m	confirmed

NRCB USE ONLY
 Also recently permitted in RA24005 for an expansion to free stall barn (total dimensions: 180.1m x 32m) and a synthetically lined liquid manure storage (60m x 60m x 4.5m)

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)

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

renovating sawdust storage room to sand bedding recycling room, 2 pits to be dug and poured in room, floor slopes to center drain, drain runs to reception pit

Construction completion date for proposed facilities Sept 2024

Additional information

Unauthorized construction: the sawdust storage room has already been converted into the sand bedding recycling room

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
dairy cows plus replacement	500	0	500
There is no proposed change in livestock			

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)

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 28 day of August, 2024.

Signature of Applicant or Agent

Applicant provided water licence application number 00403525-00-00 on recently issued Approval RA24005

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)

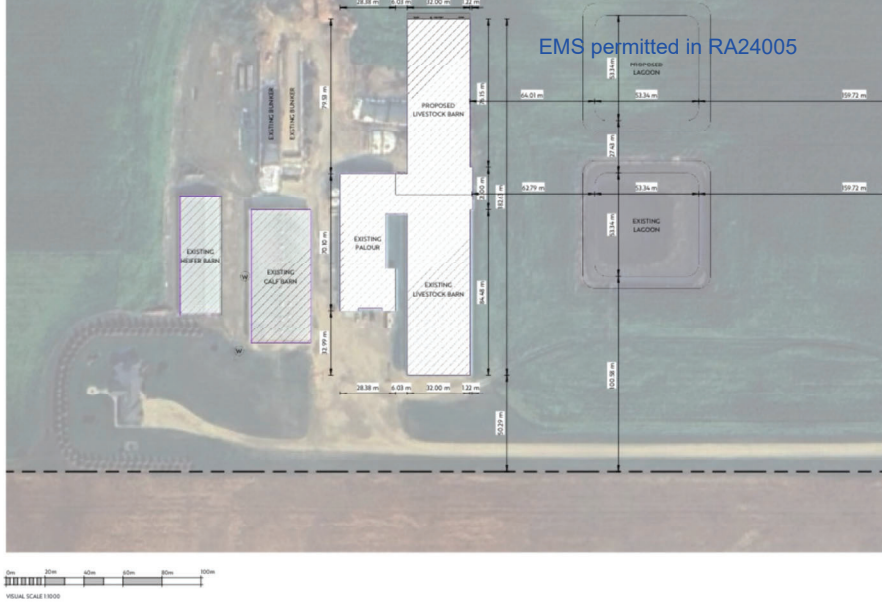
OPTION 4: Uncertain if Water Act licence is needed; acknowledgement of risk (for existing CFOs only)

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____.

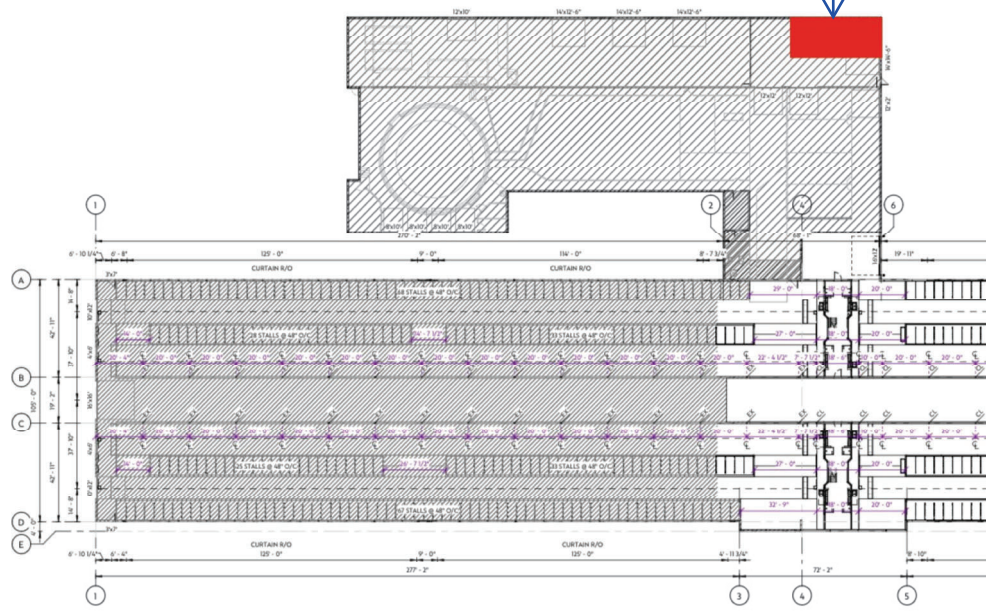
Signature of Applicant or Agent





DO NOT SCALE DRAWING. VERIFY ALL DIMENSIONS, SURFACE AND LEVELS PRIOR TO CONSTRUCTION

Proposed sand bedding recycling room



DO NOT SCALE DRAWING. VERIFY ALL DIMENSIONS, SURFACE AND LEVELS PRIOR TO CONSTRUCTION



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)

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: Freestall Barn

Proposed 1: Sand bedding recycling room

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	>1m above 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
	How many water wells are within 100 m of the manure storage facility or manure collection area?	1	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	One WW located within 100m of barn. Exemption already granted in 2018.
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	2249m	2249m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	500m to slough S of CFO
Groundwater information	What is the depth to the water table?	more then 4 m	more then 4m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Water table at 4.5m below grade
	What is the depth to the groundwater resource/aquifer you draw water from?	8.5m	8.5m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	UGR identified a t 8.5m in WW ID 1590128

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

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)

NRCB USE ONLY
ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
Sand bedding recycling room	Low	Low	RA24037

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
Free stall barn addition	Low	Low	RA24005
Liquid manure storage (2024)	Low	Low	RA24005
Free stall barn	Low	Low	RA18018
Heifer Barn	Low	Low	RA18018
Liquid manure storage (2018)	Low	Low	RA18018

ERST related comments:

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)

NRCB USE ONLY

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: 1590128 2089093

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

Groundwater or surface water related comments:

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)

NRCB USE ONLY

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

October 3, 2024	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: August 30, 2024

Municipality: Lacombe 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: AGI N/A

letter sent response received written/email verbal no comments received

Other: Chain Lakes Gas Co-op 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

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)

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
Wilpshaar Dairy Ltd	09-21-41-24-W4	690	Agriculture	1	715m		Yes
Sam Catellier	14-15-41-24-w4	870	Agriculture	1	851m		Yes
Law	05-15-41-24-w4	993	Agriculture	1	985m		Yes
Russel Wildeman	11-16-41-24-W4	983	Agriculture	1	966m		Yes
empty house	12-21-41-24-W4	1106	Agriculture	1	1070m		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)
Wilpshaar Dairy Ltd	SW/NE/SE 21-41-24-w4	128	Black		
Van Sevenhoven	NE20-41-24-W4	64	Black	Not required for authorizations	
Wilpshaar Dairy Ltd	SW25-41-24-W4	64	Black		
Van Sevenhoven	NW/NE/SE 15-41-24-W4	192	Black		
Van Sevenhoven	NW/SW 14-41-24-W4	128	Black		
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)

Please see RA24005 permit for sign land use agreements

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)

NRCB USE ONLY

MINIMUM DISTANCE SEPARATION

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

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

Requirements (m): Category 1: 487 Category 2: 650 Category 3: 812 Category 4: 1300

Technology factor: YES NO

Expansion factor: YES NO

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

LAND BASE FOR MANURE AND COMPOST APPLICATION

Land base required: _____

Land base listed: _____

Area not suitable: _____

Available area: _____

Not required for authorizations

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 _____

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)

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. reception pit (sand bedding recycling room)
2. liquid pit
3. _____

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)	NRCB USE ONLY Calculated storage capacity (m ³)
1.	4.2	3	2	1.9	25.2 m ³
2.	4.2	3	2	1.9	25.2 m ³
3.					
TOTAL CAPACITY					storage requirements met with EMS

Concrete liner details

Scrape alleys or unslatted portions of barn floors (if applicable)	Concrete thickness NA		Method of sulphate protection		
	Concrete strength		Concrete reinforcement size and spacing		
In-barn manure pit floors	Concrete thickness 8inches		Method of sulphate protection		
	Concrete strength 30mpa		Concrete reinforcement size and spacing 24inches		
In-barn manure pit walls	Concrete thickness 6inches		Method of sulphate protection		
	Concrete strength 30mpa	Horizontal reinforcement size and spacing 16inches	Vertical reinforcement size and spacing 24inches		

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)

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
 pit walls to be poured in place, floor to wall joint to have water stop sealant before pouring with rebar wet set between floor and wall

Describe sealing practices for piping, etc. that penetrates the liner
 through wall pipes to be mounted with steel plate anchored to wall and sealant

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

*Guideline minimums:
 Solid manure: 25MPa (D)
 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

storage requirements met with EMS

Depth to water table: > 4m

Requirements met: YES NO

Depth to uppermost groundwater resource: 8.5 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 meet the specifications for category B (liquid manure – pits) in Technical Guideline Agdex 096-93 “Non-Engineered Concrete Liners for Manure Collection and Storage Areas”

Dolman Construction Ltd.
Box 1937
Rimbey, AB, T0C 2J0
September 16, 2024

Natural Resources Conservation Board

Re: Wilpshaar Dairy Ltd Pit Construction Details

This letter contains information regarding the construction of the newly constructed pit inside of the existing dairy barn saw dust storage bay. As the contractor I can confirm the following specifications of the pit construction.

Pit Dimensions:	9' wide x 26' long x 6' deep
Pit Floor Concrete Thickness:	150 mm (6")
Pit Floor Reinforcement:	10M @ 450 mm e.w.
Pit Wall Concrete Thickness:	varies between 200 mm and 350 mm
Pit Wall Reinforcement:	10M @ 300 mm vertical, 450 mm horizontal
Concrete Strength and Type:	32 MPa Type 50

If you have any questions or concerns, you can reach me any time at (403) 704-0802.
Thank you very much.

Sincerely,



Darren Dolman

Encl.