# **Technical Document RA24050**

### 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)

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 opposed prosecution.	ffence and is subj	ction, including
I, the applicant, or applicant's agent, have read and understand provided in this application is true to the best of my knowledge.	the statements abov	hat the information
MARCH 27 2025		
Date of signing	Sigr	
Paradise Dairy Ltd	Antoon van der Kamp	

Corporate name (if applicable)

Print name

#### GENERAL INFORMATION REQUIREMENTS

Proposed facilities	Dimensions (m) (length, width, and depth)
Construct a new youngstock/heifer/dry cow barn	60.96m by 20.12 m
	1

	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
dairy barn	41.40m by 52.4m	Confirmed in
service building	12.7m by 10.97m	RA16013
existing liquid manure storage	50.9m by 50.9m	

Last updated September 11, 2023



NRCB Natural Resources Conservation Board .

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Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY	
hay shed/ 4 calf pens. dirt floor	17m by 34m		
old freestal. concrete floor	35.5m by 17m		
several corrals	7583 m2		
8			
u <sup>2</sup>			
		Contraction of the State of the	
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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
Storage for hay/ straw and equipment	

jan 2026

Construction completion date for proposed facilities

#### Additional information

No increase in livestock numbers

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
			1 State in Department of the American State in the Sta
No change in permitted livestock r	iumbers		
n ne se			

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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.
- 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*).
- 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**

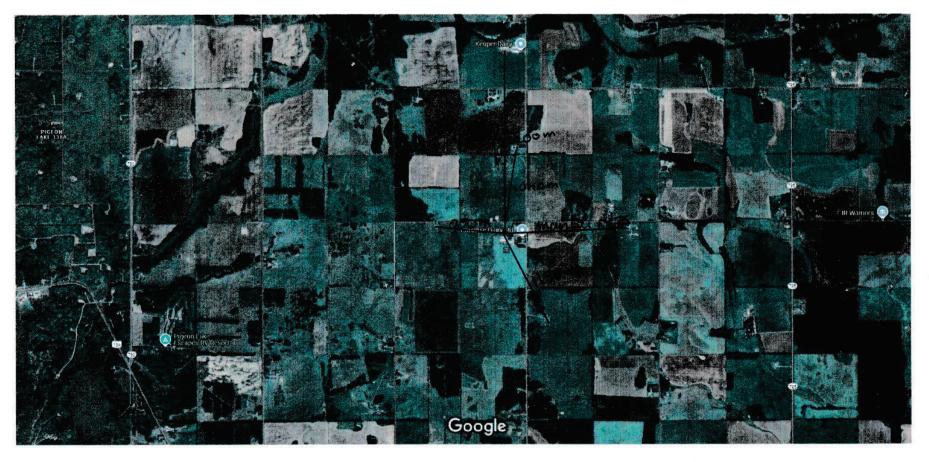
- 1. I (we) declare that the CFO will not need a new licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
- 2. **Provide**: Water license number(s) or water conveyance agreement details 001-00386674 and 001-00386673 both assigned to file number 00176120

Signed this 27 day of MARCH \_\_\_\_, 2025.

Last updated September 11, 2023

or Agent

# Google Maps



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# Google Maps

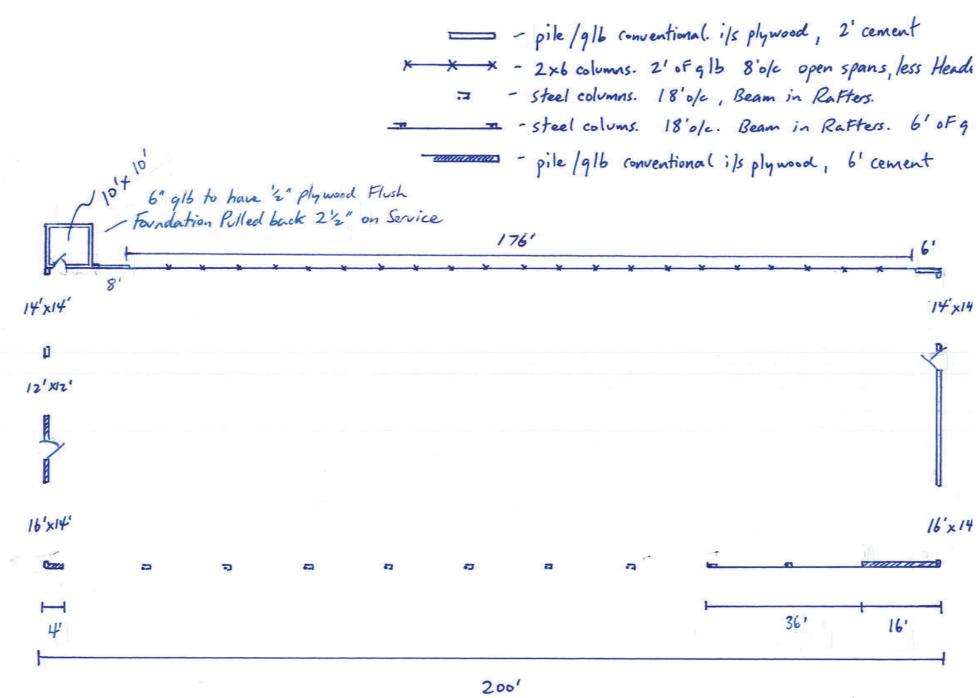


Imagery ©2025 Airbus, Maxar Technologies, Map data ©2025 20 m

NE 21-46-27-W4

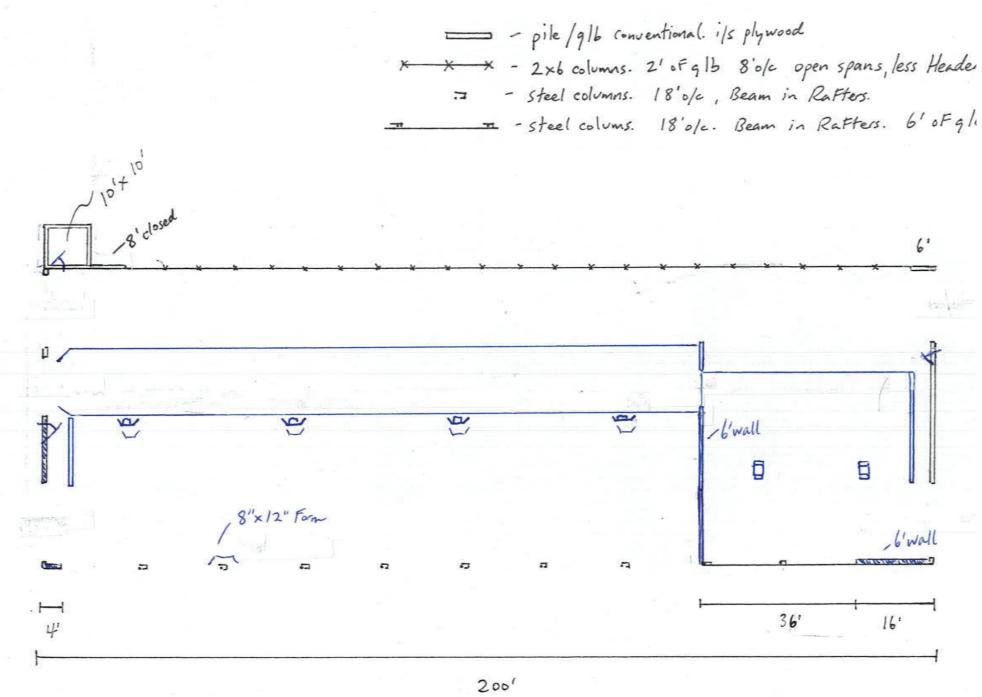
W1 = 35m W2 = 142m W3 = 155m  $\Rightarrow water wells$ 

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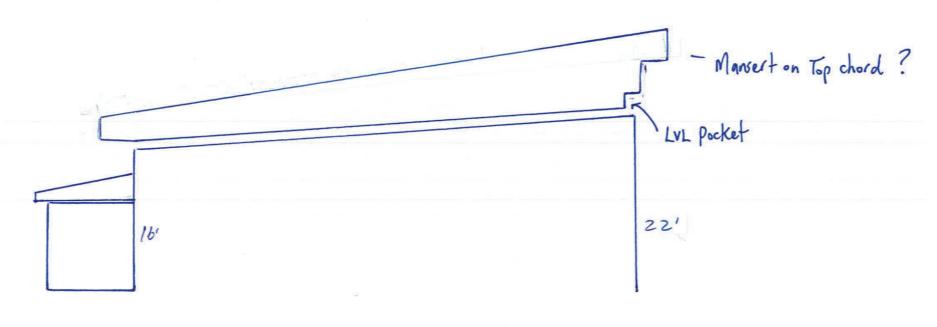


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66' trusses. Foundation is 66'2'z"

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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: barn/pens with concrete/ dirt floor

Proposed 1: new everything under one roof on concrete floor

Proposed 3:

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

Fa	cility and environmental risk		Faci	lities		NRCB USE ONLY	
	information	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?	X >1 m □ ≤ 1 m	X >1 m □ ≤ 1 m	□ >1 m □ ≤ 1 m	□ > 1 m □ ≤ 1 m	YES INO YES with exemption	Not in flood plain
ē,	How many springs are within 100 m of the manure storage facility or manure collection area?	none	none			YES INO YES with exemption	None observed on site visit
Surface water	How many water wells are within 100 m of the manure storage facility or manure collection area?	3	1			YES NO X YES with exemption	1 ww within 100 m of proposed facility
Su .	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	7 km	7 km			YES NO YES with exemption	No surface water bodies observed within 800 m
water ation	What is the depth to the water table?	+3.0m	+3.0m			YES NO YES with exemption	> 3 m
Groundwate	What is the depth to the groundwater resource/aquifer you draw water from?	20 m	20 m			YES INO YES with exemption	UGR identified at 27 m ww 132787

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



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

			NRCB USE ONL			Y	
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Mantai	NE-22-46-27 W4	1475 m	Agriculture	, 1	>1000 m		Yes
Keuper Dairy	SE-33-46-27 E4	2200 m	Agriculture	1	>2000 m		Yes
Possible residences on SW 27;	Still more than 600 m to C	FO facilities					
						Contraction of the	

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

				NRCB US	ONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
N/A for authoriza	ations				
			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)

There will be no increase in livestock.



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NRCB USE ONLY							
MINIMUM DISTANCE SEPARATI	ON						
Methods used to determine distance (if app Margin of error (if applicable): $\frac{+-2}{m}$	licable):	erial ph	otograph	у			
Requirements (m): Category 1:290 m	Ca	tegory 2	<u>386 m</u>	Catego	ry 3: <u>483 m</u>	1	Category 4: 772 m
Technology factor:					🗆 YE	s 🕱	NO
Expansion factor:					🗆 YE	is 🙀	NO
MDS related concerns from directly affected	l parties d	or referra	l agencies	:	🗆 YE		
							•
LAND BASE FOR MANURE AND	СОМРО	ST AP	PLICAT	ION			
Land base required: N/A for author	orization	S					
Land base listed:							
Area not suitable:							_
Available area				Requiremen	t met: 🛛 Y	es 🗆	] 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					
GRANDFATHERING							
Already completed:		YES		] N/A			
If already completed, see RA16013							



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### NRCB USE ONLY

### ENVIRONMENTAL RISK SCREENING INFORMATION

#### **ERST** for **proposed** facilities

Facility	Groundwater score	Surface water score	File number
heifer/dry cow barn	low	low	RA24050

### **ERST** for **<u>existing</u>** facilities

Facility	Groundwater score	Surface water score	File number	
EMS	Low	Low	RA16013	
Dairy barn	Low	Low	RA16013	
Wash water storage pit*	Low	Low	RA16013	
Outdoor pens *	Low Low		RA16013	
*other grandfathered facilities presumed lower risk than the storage pit and outdoor pens				

**ERST** related comments:



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NRCB USE ONL			•••		
WATER WEL	132787	WATER INFORMATION	ON	milk house well	
Surface water related concerns from directly affected parties or referral agencies:					
	mption Screening T	_			
Wate	er Well ID	Preliminary Screening Score	Secondary Screening Score	Facility	
132787		12-continue next section	17-exemption likely	Dry cow/heifer barn	
Groundwater o	r surface water rela	ted comments:			



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NRCB USE ONLY					
ALL SIGNATURES	IN FILE	🔀 YES 🛛	NO		
DATES OF APPROVAL OFFICER SITE VISITS					
June 18, 2025					
CORRESPONDENC	E WITH MUNICIPA	LITIES AN	D REFERR	AL AGENC	IES
Date deeming letters sen					
Municipality:County	y of Wetaskiwin				
🔀 letter sent	X response received	💢 written/	/email	U verbal	no comments received
Alberta Health Service	es: XN/A				
□ letter sent	☐ response received	written	/email	🗌 verbal	□ no comments received
Alberta Environment a	nd Parks: N//	4			
V letter sent	□ response received	written	/email	🗌 verbal	💢 no comments received
Alberta Transportation	n: 🔀 N//	4			
□ letter sent	response received	written	/email	🗌 verbal	no comments received
Alberta Regulatory Se	rvices: 🗌 N//	4			
K letter sent	Kresponse received	🔀 written/	/email	🗌 verbal	no comments received
Other: Plains Midstream					
					_
V letter sent	X response received	XJ written/	/email	verbal	☐ no comments received
Other: Keyera Rimbey Ltd, Apex Utilities, Pembina Pipeline TC Energy					
🔀 letter sent	response received	written	/email	🗌 verbal	Kno comments received



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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. heifer/ dry cow barn

2.

#### Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m <sup>3</sup> )
1.	60.96	20.12	0	Sufficient storage
2.				
	I		TOTAL CAPACITY	

☑ 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 <u>Short-Term Solid Manure Storage Requirements Fact Sheet</u>.

#### Surface water control systems

Describe the run-on and runoff control system

Indoor

#### Liner protection

Describe how the physical integrity of the liner will be maintained

Repair if needed

NRCB USE ONLY Requirements met: X YES NO

Last updated February 26, 2021



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

Concrete liner details					
Concrete thickness	Method of sulp	Method of sulphate protection:			
5"	type 50				
Concrete strength	Concrete reinf	Concrete reinforcement size and spacing			
32 mpa	16" o/c 10 mm rebar both ways				
Concrete requirements can be found in Technical Gui 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 Additional information (attach as required)	deline Agdex 096-93	NRCB USE ONLY Requirements met: Condition required: Report attached:			
NRCB USE ONLY					
		YES WITH STMS 🛛 NO			
Nine month manure storage volume requirements r					
Depth to water table: > 3 m		uirements met:	ON C		
Depth to Uppermost groundwater resource: 27 r	m ww 132787 <sub>Req</sub>	uirements met: 🛛 🔀 YES 🕻	ON C		
ERST completed: 🔀 see ERST page for details					
			The state and the state of the		
Surface water control systems					
Requirements met: XYES NO Details/com	ments:				
Concrete liner details					
A condition will be added re	quiring applicant	to provide proof that col	ncrete liner meets NRCE		
technical guidelines					
Leakage detection system required: 🔲 YES 💢 NG	) If yes, please explai	n why.			
			2		
			C. Same		

Last updated February 26, 2021