

Technical Document BA25014

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	Legal land description
<input type="checkbox"/> Approval <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Authorization <input type="checkbox"/> Amendment	BA25014	SE 26-59-3 W5M

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.

June 2, 2025

Date of signing

De Wildt Dairy LTD

Corporate name (if applicable)

Signature

Mattheus de Wildt

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)
Heifer Barn (Pack Barn)	91 x 28
manure pad	30 x 30

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Dairybarn	31.3 x 81.7	
Lagoon	75 x 90.5 x 5.4	

NRCB USE ONLY

Confirmed existing CFO

Part 2 — Technical Requirements



NRCB | Natural Resources
Conservation Board

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

Construction completion date for proposed facilities end of 2028

Additional information

N/A not for an increase in permitted livestock

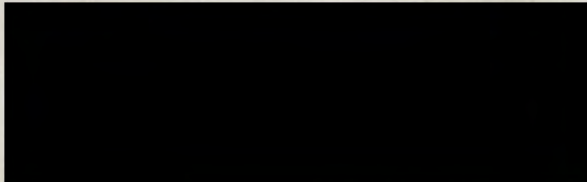
Livestock numbers: Complete only if livestock numbers are different from what was identified in the Part 1 application. Note: if livestock numbers increase in your Part 2 application, a new Part 1 application must be submitted which may result in a loss of priority for minimum distance separation (MDS).

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, Dry Cows, replacement heifer	199	0	199

To whom this may concern,

I Kees de Wildt owner of De Wildt Dairy Ltd, give my son Mattheus de Wildt permission in applying for a permit for my farm.

Thank you,

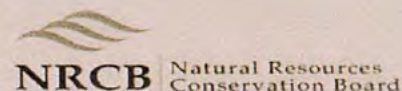


Kees de Wildt

Date:

July 7, 2025

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____.

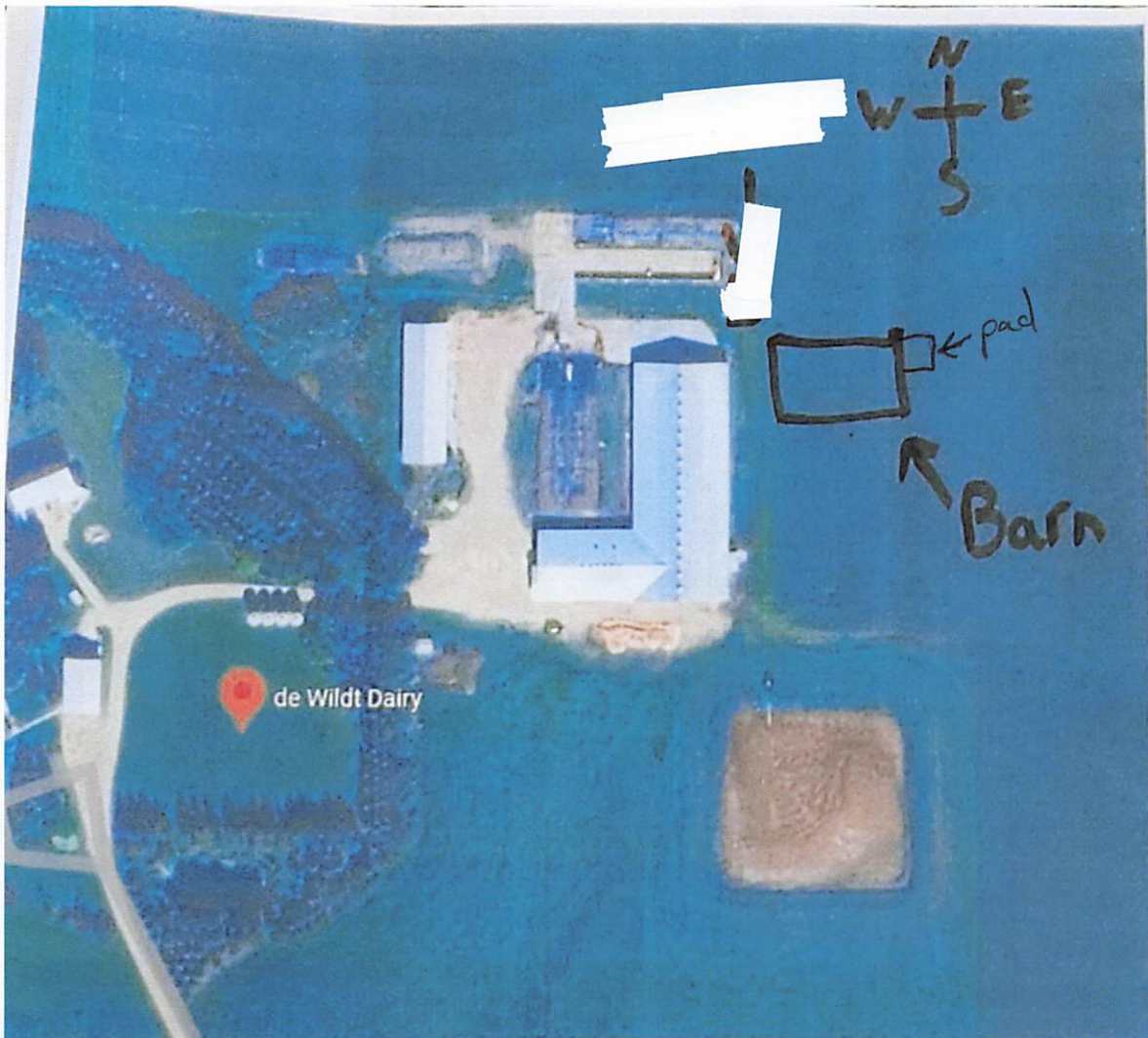
Signature of Applicant or Agent

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 2 day of June, 2025.

Signature of Applicant or Agent



- ~~Monare~~ Monare on diagram will be held in a small silo bunker with one opening for access
- Monare will be dry ~~monare~~



Seasonal drainage

● wells

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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: Dairybarn

Proposed 1: heifer barn with attached manure pad

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 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 in flood plain
	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 known
Surface water information	How many water wells 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	Confirmed
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	>30m	> 800			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	360 m to seasonal drainage
Groundwater information	What is the depth to the water table?	6.78m	> 6			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Confirmed
	What is the depth to the groundwater resource/aquifer you draw water from?	10m	10 m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	7.62 m ID 1760161

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

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NRCB USE ONLY

ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
See Decision Summary	BA25014		

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
Dairy barn 1	Low	Low	BA18008
EMS	Low	Low	BA18008

ERST related comments:

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WATER WELL AND SURFACE WATER INFORMATION

Well IDs: ID 1760161 ID 2097064 ID 2097069

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

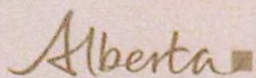
Surface water ☒ N/A

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:



Water Well Drilling Report

View in Metric Export to Excel

GIC Well ID 2097064
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2010/05/28

GOWN ID

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

Well Identification and Location										Measurement in Imperial	
Owner Name DEWILDT, KEES		Address RR 1		Town BARRHEAD		Province ALBERTA		Country CANADA		Postal Code T7N 1N2	
Location	1/4 or LSD SE	SEC 26	TWP 59	RGE 3	W of MER 5	Lot	Block	Plan	Additional Description		
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation	
ft from					Latitude 54.126732 Longitude -114.333150					ft	
ft from					How Location Obtained					How Elevation Obtained	
					Not Verified					Not Obtained	

Drilling Information	
Method of Drilling Rotary - Air	Type of Work New Well
Proposed Well Use Stock	

Formation Log		Measurement in Imperial	
Depth from ground level (ft)	Water Bearing	Lithology Description	
19.00		Clay	
21.00		Coal	
36.00		Clay	
54.00		Shale	
57.00		Coal	
88.00		Shale	
94.00	Yes	Coal	
100.00		Shale	

Yield Test Summary		Measurement in Imperial	
Recommended Pump Rate 20.00 igpm			
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)	
2010/05/12	30.00	45.00	

Well Completion		Measurement in Imperial	
Total Depth Drilled	Finished Well Depth	Start Date	End Date
100.00 ft	100.00 ft	2010/05/12	2010/05/12
Borehole			
Diameter (in)	From (ft)	To (ft)	
6.50	0.00	36.00	
5.50	36.00	100.00	
Surface Casing (if applicable)		Well Casing/Liner	
Steel		Plastic	
Size OD :	5.56 in	Size OD :	4.50 in
Wall Thickness :	0.188 in	Wall Thickness :	0.250 in
Bottom at :	40.00 ft	Top at :	20.00 ft
		Bottom at :	100.00 ft
Perforations			
From (ft)	To (ft)	Diameter or Slot Width (in)	Slot Length (in)
80.00	96.00	0.062	
Hole or Slot Interval (in)			
3.00			
Perforated by Machine			
Annular Seal Cuttings			
Placed from 0.00 ft to 40.00 ft			
Amount			
Other Seals			
Type		At (ft)	
Formation Packer		45.00	
Welded Ring		39.00	
Screen Type			
Size OD :		in	
From (ft)	To (ft)	Slot Size (in)	
Attachment			
Top Fittings		Bottom Fittings	
Pack			
Type		Grain Size	
Amount			

Contractor Certification

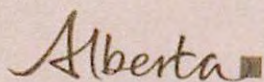
Name of Journeyman responsible for drilling/construction of well
MATTHEW MAHAR

Company Name
MAHAR DRILLING LTD.

Certification No
11510NQ

Copy of Well report provided to owner
Yes

Date approval holder signed
2010/05/12



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 1760161
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

GOWN ID

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

Well Identification and Location										Measurement in Imperial	
Owner Name DE WILDT, KEES		Address RR 1			Town BARRHEAD		Province ALBERTA		Country CA	Postal Code T7N 1N2	
Location	1/4 or LSD 2	SEC 26	TWP 59	RGE 3	W of MER 5	Lot	Block	Plan	Additional Description		
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation 2207.00 ft	
					Latitude 54.125550 Longitude -114.333460					How Elevation Obtained	
					Differential corrected handheld GPS 5-10m					Differential corrected handheld GPS 5-10m	

Drilling Information		Type of Work
Method of Drilling Rotary		New Well
Proposed Well Use Stock		

Formation Log			Yield Test Summary			Well Completion		
Measurement in Imperial			Measurement in Imperial			Measurement in Imperial		
Depth from ground level (ft)	Water Bearing	Lithology Description	Recommended Pump Rate	7.00 igpm	Static Water Level (ft)	Total Depth Drilled	Finished Well Depth	Start Date
20.00		Yellow Clay	Test Date	2006/07/18	45.00	135.00 ft		2006/07/18
25.00		Blue Clay	Water Removal Rate (igpm)	10.00				End Date
45.00		Gray Shale						2006/07/18
75.00		Gray Sandstone						
85.00		Green Shale						
90.00		Brown Shale						
100.00		Green Shale						
130.00		Brown Shale						
135.00		Green Shale						
						Borehole		
						Diameter (in)	From (ft)	To (ft)
						6.75	0.00	135.00
						Surface Casing (if applicable)		
						Steel		
						Well Casing/Liner		
						Plastic		
						Size OD :	5.56 in	Size OD :
						4.50 in		
						Wall Thickness :	0.188 in	Wall Thickness :
						0.250 in		
						Bottom at :	40.00 ft	Top at :
						35.00 ft		
						Bottom at :		
						135.00 ft		
						Perforations		
						From (ft)	To (ft)	Diameter or Slot Width (in)
						45.00	75.00	0.218
						Slot Length (in)		
						Hole or Slot Interval (in)		
						Perforated by		
						Machine		
						Annular Seal		
						Drive Shoe		
						Placed from		
						0.00 ft to 40.00 ft		
						Amount		
						Other Seals		
						Type		
						At (ft)		
						Screen Type		
						Size OD :		
						in		
						From (ft)		
						To (ft)		
						Slot Size (in)		
						Attachment		
						Top Fittings		
						Bottom Fittings		
						Pack		
						Type		
						Unknown		
						Grain Size		
						Amount		
						Unknown		

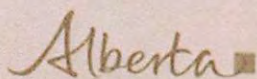
Contractor Certification

Name of Journeyman responsible for drilling/construction of well
THOMAS MEASURES

Company Name
TOM MEASURES DRILLING

Certification No
VB2445

Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 2097064
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2010/05/28

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Location	1/4 or LSD SE	SEC 26	TWP 59	RGE 3	W of MER 5	Lot	Block	Plan	Additional Description		
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)						
ft from					Latitude 54.126732 Longitude -114.333150					Elevation ft	
ft from					How Location Obtained					How Elevation Obtained	
					Not Verified					Not Obtained	

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level 24.00 in											
Is Artesian Flow										Is Flow Control Installed	
Rate igpm										Describe	
Recommended Pump Rate 20.00 igpm										Pump Installed Yes	Depth 85.00 ft
Recommended Pump Intake Depth (From TOC) 85.00 ft										Type Submersible	Make Other H.P. 0.75
										Model (Output Rating)	
Did you Encounter Saline Water (>4000 ppm TDS)										Depth ft	Well Disinfected Upon Completion Yes
Gas										Depth ft	Geophysical Log Taken
Remedial Action Taken										Submitted to ESRD	
Additional Comments on Well										Sample Collected for Potability	Submitted to ESRD
PROPOSED WELL USE: DAIRY - SPARE WELL. PUMP INSTALLED: 10 GPM.											

Yield Test			Taken From Top of Casing		Measurement in Imperial
Test Date	Start Time	Static Water Level	Depth to water level		
2010/05/12	11:00 AM	45.00 ft	Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)
Method of Water Removal Type Air Removal Rate 30.00 igpm Depth Withdrawn From 100.00 ft If water removal period was < 2 hours, explain why			45.00	0:00	100.00
				1:00	70.00
				2:00	46.00
				3:00	45.00
				20:00	45.00
				50:00	45.00
				75:00	45.00
				120:00	45.00

Water Diverted for Drilling		
Water Source	Amount Taken ig	Diversion Date & Time

Contractor Certification

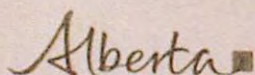
Name of Journeyman responsible for drilling/construction of well
MATTHEW MAHAR

Company Name
MAHAR DRILLING LTD.

Certification No
11510NQ

Copy of Well report provided to owner
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Date approval holder signed
2010/05/12



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View in Metric **Export to Excel**

GIC Well ID 1760161
GoA Well Tag No.
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Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation 2207.00 ft	
ft from					Latitude 54.125550 Longitude -114.333460					How Elevation Obtained	
ft from					How Location Obtained					Differential corrected handheld GPS 5-10m	
					Differential corrected handheld GPS 5-10m						

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level 14.00 in											
Is Artesian Flow										Is Flow Control Installed	
Rate igpm										Describe	
Recommended Pump Rate 7.00 igpm										Pump Installed Yes	
Recommended Pump Intake Depth (From TOC) 120.00 ft										Depth ft	
										Type SUB 120 FEET	
										Make H.P. .75	
										Model (Output Rating)	
Did you Encounter Saline Water (>4000 ppm TDS)										Depth ft	
Gas										Well Disinfected Upon Completion	
Remedial Action Taken										Geophysical Log Taken	
										Submitted to ESRD	
										Sample Collected for Potability	
										Submitted to ESRD	
Additional Comments on Well											
ON JULY 18/06 AT 8:15 AM OBTAINED 1000 GALLONS OF WATER FROM BARRHEAD WATER PLANT. BOREHOLE ALSO 5.125 INCHES.											

Yield Test			Taken From Ground Level		Measurement in Imperial	
			Depth to water level			
Test Date	Start Time	Static Water Level	Pumping (ft)	Elapsed Time	Recovery (ft)	
2006/07/18	7:12 AM	45.00 ft		Minutes:Sec		
			45.00	0:00	58.00	
				1:00	53.00	
				2:00	49.00	
				3:00	47.00	
				4:00	46.00	
				5:00	45.00	
Method of Water Removal						
Type Air						
Removal Rate 10.00 igpm						
Depth Withdrawn From 90.00 ft						
If water removal period was < 2 hours, explain why						

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	ig	

Contractor Certification		Certification No	
Name of Journeyman responsible for drilling/construction of well		VB2445	
THOMAS MEASURES		Copy of Well report provided to owner	
Company Name		Date approval holder signed	
TOM MEASURES DRILLING			

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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
1) C. Gallatin	SW 25 59 3 5	400	Ag	Cat 1	403 m	N/A	yes
2)R & E Stoik	NE 26 59 3 5	500	Ag	Cat 1	543 m	N/A	Yes
3) C. Gallatin	NW 23 59 39 5	1250	Ag	Cat 1	1137 m	N/A	Yes
4) Kathy Morrow	SE 25 59 39 5	1250	Ag	Cat 1	1211 m	N/A	Yes
5) 4 residences at this parcel	NW 25-59-3 W5	614 m	CR	Cat 2	614 m	N/A	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 not for an increase in permitted livestock					
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): n/a

Requirements (m): Category 1: 348 m Category 2: 464 m Category 3: 580 m Category 4: 929 m

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: N/A not for an increase in permitted livestock

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 _____

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NRCB USE ONLY

ALL SIGNATURES IN FILE

☒ YES ☐ NO

DATES OF APPROVAL OFFICER SITE VISITS

June 17, 2025	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: June 24, 2025

Municipality: Barrhead 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: _____ ☐ 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

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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)

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 Barn

2. Manure Pad

Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m ³)
1.	91	28	0	
2.	30	30	0	

TOTAL CAPACITY

Adequate storage for solid manure on site

☐ 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

- Roof over top, direct water around
- Barricades around manure pad

Manure pad attached outdoor with barriers around for runoff control, pack barn under roof.

Liner protection

Describe how the physical integrity of the liner will be maintained

- Monitor for cracks, will ~~fix~~ if needed

NRCB USE ONLY

Requirements met: ☒ YES ☐ NO

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)

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

Concrete liner details

Concrete thickness <i>5 inches</i>	Method of sulphate protection: <i>T50</i>
Concrete strength <i>25/30</i>	Concrete reinforcement size and spacing <i>15 o/c</i> 10 mm

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)

NRCB USE ONLY

Nine month manure storage volume requirements met ☒ YES ☐ YES With STMS ☐ NO

Depth to water table: *>6 m* Requirements met: ☒ YES ☐ NO

Depth to Uppermost groundwater resource: *7.62 m* Requirements met: ☒ YES ☐ NO

ERST completed: ☒ see ERST page for details

Surface water control systems

Requirements met: ☒ YES ☐ NO Details/comments:

Concrete liner details

Applicant to provide documentation confirming concrete information

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