Technical Document RA24033

Part a - Toobsical Dami		-
Part 2 — Technical Requirement	KS	NRCB Natural Resource
Application under the Agricultural Operation Practices Act for a confined feeding. NRCB USE ONLY		a, and/or manure storage facility(ies)
	Application number A24033	Legal land description
Approval Registration Authorization	A24033	SE 18-34-1 W5
APPLICATION DISCLOSURE		
This information is collected under the authority of the Agricultus provisions of the Freedom of Information and Protection of Priva written request that certain sections remain private.	ral Operation Practices Act (A acy Act. This information is pu	OPA), and is subject to the oblic unless the NRCB grants a
Any construction prior to obtaining an NRCB permit is an prosecution.	offence and is subject to e	nforcement action, including
I, the applicant, or applicant's agent, have read and understand provided in this application is true to the best of my knowledge. 1 - 0 - 2024 Date of signing	the statements above, and I	acknowledge that the information
Cotaro holsteins Utal	Johan d	e Haan
GENERAL INFORMATION REQUIREMENTS		
Proposed facilities: list all proposed confined feeding operation proposed facilities are additions to existing facilities. (attach ac	on facilities and their dimension	ons. Indicate whether any of the
Proposed facilities		Dimensions (m) (length, width, and depth)
Heifer /dry cow barn	Et	70 x illo
	m	213 X 549
On August 19, 2024, the app a	advised they wo	ould like to build the ba
80' x 180' (24.38 m x 54.86 m		and into to baild the ba
Existing facilities: list ALL existing confined feeding operation	facilities and their dimension	
	Dimensions (i	11 12 11
Existing facilities	(length, width, and	NINCE USE ONLY
Carbarn	200 × 100 × 1	61 m x 31m
Parlor Malding area/call area	126 x 66 x 10	37 m x 20 m
Synthetically lined liquid manure s	storage (24 m v	62 m y 2 4 m)
MRCB USE ONLY		02 III X 3.4 III)
Solid manure pad clay lined (61 m		
Outdoor pens (irregularly shaped;	approx 92 m x 8	87 m at largest)



more run of from thes	will not be r	needed anym	as (Vo
eifers/ pry rows will not while in boun = controllé	- boug to of	an autoido	
entersibly cous with not	March 10 ST	city occision	0 1 1
while in boun = controlle	over manu	ire and les	s feed spoil
nstruction completion date for proposed facili	ties before u	uinter 'zyliza	
ditional information	No.		
vestock numbers: Complete only if livestock num	bers are different from wh	at was identified in the Part	1 application. Note: if
estock numbers increase in your Part 2 application.	bers are different from wh , a new Part 1 application i	at was identified in the Part must be submitted which m	1 application. Note: if ay result in a loss of
for ity for minimum distance separation (MDS).	bers are different from wh , a new Part 1 application i	must be submitted which m	1 application. Note: if ay result in a loss of
iority for minimum distance separation (MDS). Livestock category and type	bers are different from wh , a new Part 1 application of Permitted number	must be submitted which m Proposed increase or	ay result in a loss of
ority for minimum distance separation (MDS). Livestock category and type	, a new Part 1 application i	must be submitted which m	1 application. Note: if ay result in a loss of
iority for minimum distance separation (MDS). Livestock category and type Available in the Schedule 2 of the Part 2 Matters	, a new Part 1 application i	Proposed increase or decrease in number	ay result in a loss of
controlled increase in your Part 2 application, fority 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
Livestock category and type Available in the Schedule 2 of the Part 2 Matters Regulation) AO Note: The applicant has a permi	Permitted number It for 100 milking co	Proposed increase or decrease in number (if applicable) WS (plus associated	Total
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Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(les)

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

- 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.
- 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).
- 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 conveyer App are new owners of site; currently working	nce agreement details
Signed this 15th day of AUGUST , 2024.	
	Signature of Applicant or Agent



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(complete	this section for the worst case of the exescription / name (as indicated on site):	isting facility whi plan)	ich is the closest t				con barn
Propose	ed 2:			Propose	d 3:	1 1 1 7	CON CONTI
Facil	ity 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?	2 >1 m 1 ≤ 1 m		□ >1 m □ ≤1 m	□ > 1 m □ ≤ 1 m	YES NO	Confirmed
ter	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			YES NO YES with exemption	None visible on site
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	1				YES NO YES with exemption	One water well within 100 m of proposed facilities
ਲ =	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	0	0			YES NO YES with exemption	No surface water observed within 800 m
Groundwater Information	What is the depth to the water table?	>10 Mt	> 10 74			YES NO	Confirmed
Groun	What is the depth to the groundwater resource/aquifer you draw water from?	760mts	>60mtr			YES NO	UGR at 46.33 m WWID 1245255

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 ON	LY	
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
2 Roger Due	W-17-34-1-W5 (unclear if residence	850	Agriculture	1	521 m		Yes
3 7+13 Forrester	SE-18-34-1-W5	510	Agriculture	1	374 m		Yes
4 Jamieson	SE pt NE-18-34-1-W5	516	Agriculture	1	363 m		Yes
1. Randy Dye	SW pt. SW-17-34-1-W5		Agriculture	1	692 m		Yes

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

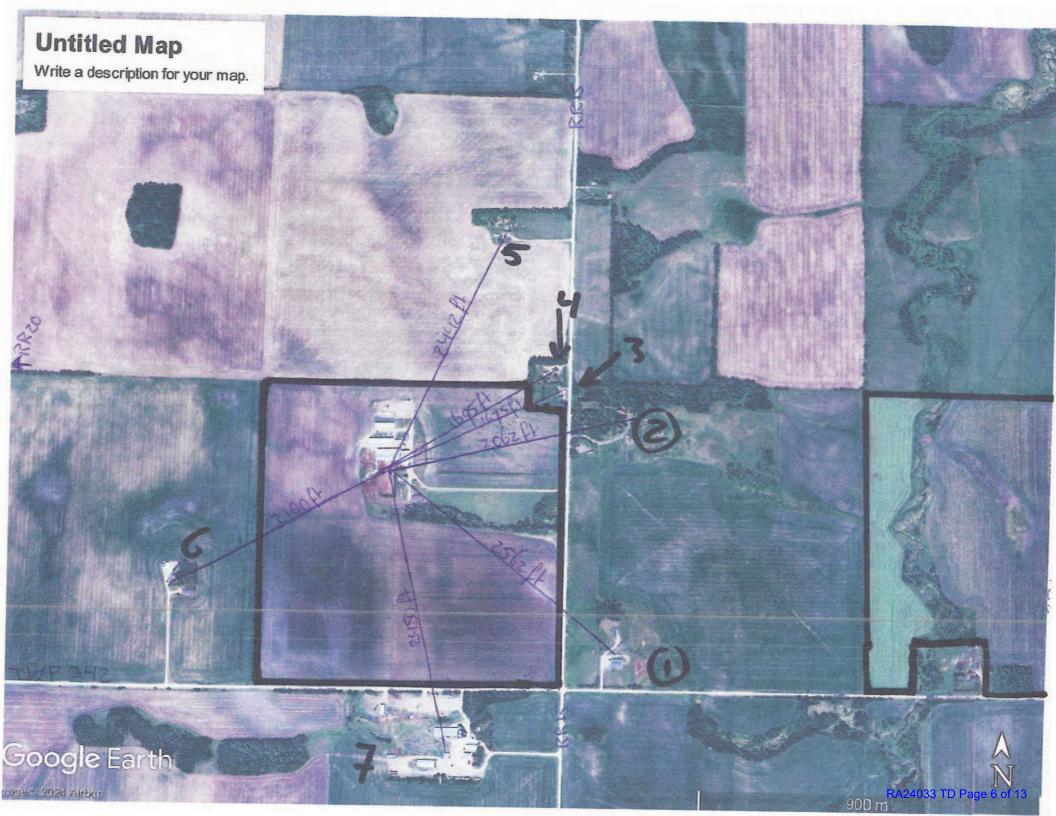
				NRCB US	SE ONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
N/A for an authorization					
			Total		

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

Additional information (attach any additional information as required)

^{**} 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







Facility Groundwater score Surface water score File number Milking barn Low Low RA24033 tically lined liquid manure storage Low Low 2016 RBC Barn pit Low Low 2016 RBC Outdoor pens Low Low RA24033	Facility	Groundwater score	Surface water score	File number
Facility Groundwater score Surface water score File number Milking barn Low Low RA24033 tically lined liquid manure storage Low Low 2016 RBC Barn pit Low Low 2016 RBC Outdoor pens Low Low RA24033	Heifer/dry barn	low	low	RA24033
Facility Groundwater score Surface water score File number Milking barn Low Low RA24033 stically lined liquid manure storage Low Low 2016 RBC Barn pit Low Low 2016 RBC Outdoor pens Low Low RA24033				
Milking barn Low Low RA24033 etically lined liquid manure storage Low Low 2016 RBC Barn pit Low Low RA24033 Outdoor pens Low Low RA24033				
Milking barn Low Low RA24033 etically lined liquid manure storage Low Low 2016 RBC Barn pit Low Low 2016 RBC	ERST for <u>existing</u> facilities			
etically lined liquid manure storage Low Low 2016 RBC Barn pit Low Low RA24033 Outdoor pens Low Low RA24033	Facility	Groundwater score	Surface water score	File number
Barn pit Low Low RA24033	Milking barn	Low	Low	RA24033
Barn pit Low Low 2016 RBC Outdoor pens Low Low RA24033	etically lined liquid manure	e storage Low	Low	2016 RBC
			Low	2016 RBC
ERST related comments:	Outdoor pens	Low	Low	RA24033
ERST related comments:				
ERST related comments:				
ERST related comments:				
ERST related comments:				
	ERST related comments:			



WATER WEL		WATER INFORMATI	ON		
Well IDs:	1245255	353880		394199	
	469450	2091083		2091082	2 (observation)
Surface water re	elated concerns from d	irectly affected parties or ref	erral agencies:		☐ YES 🏿 NO
Groundwater rel	ated concerns from di	rectly affected parties or refe	erral agencies:		☐ YES 【☐ NO
Water wells	□ N/A				
If applicable, ex	emption for 100 m dis	tance requirements applied:	YES NO Condition	n required:	☐ YES 【☐ NO
Surface water	X N/A				
If applicable, ex	emption for 30 m dista	ance requirements applied:	YES NO Condition	n required:	☐ YES ☐ NO
Water Well Exc	emption Screening 1	Fool □ N/A			
Wat	er Well ID	Preliminary Screening Score	Secondary Screening Score		Facility
1245255		6	Score	Heifer/	dry barn
1243233		0			
Groundwater	or surface water rela	stad commants:			
Groundwater	or surface water reid	iteu comments.			
Water well	exemption more	likely; do not continue	e to secondary scree	ening	



NRCB USE ONLY						
MINIMUM DISTANCE SEPARATI	ON					
Methods used to determine distance (if app	icable):	Aerial ph	notogr	raphy		
Margin of error (if applicable): +/- 2 m					452 m	700
Requirements (m): Category 1: 271 m	Ca	tegory 2 <u>361</u>	m	_ Category 3:	452 111	Category 4: 722 m
Technology factor:					☐ YES 🛚	NO
Expansion factor:					☐ YES X☐	NO
MDS related concerns from directly affected	parties o	or referral age	encies:		☐ YES 🎦	NO
LAND BASE FOR MANURE AND (
Land base required:		N/A for aut	thoriz	ations		
Land base listed: Area not suitable:						
Available area			Da	equirement met	П ves Г	1 NO
	☐ YES	Пио	ixe	squirement met	🗀 165 🗅	INO
Land spreading agreements required:	☐ YES	□ NO				
Manure management plan:	☐ YES	□ NO	If	yes, plan is at	tached:	
PLANS						
Submitted and attached construction plans:		X YES	NO			
Submitted aerial photos:		YES D				
Submitted photos:		☐ YES X☐				
GRANDFATHERING		23 _				
Already completed:		☐ YES K	NO L	N/A		
If already completed, see						
See DS 24033						



NRCB USE ONLY							
ALL SIGNATURES I	N FILE	X YES]ио				
DATES OF APPROVA	AL OFFICER SITE V	ISITS					
August 1, 2024							
CORRESPONDENCE		ITIES AN	ND REFERE	RAL A	AGEN	CIES	
Date deeming letters sent:	August 2, 2024				-		
Municipality:					-		
letter sent	response received	writte	n/email		verbal		no comments received
Alberta Health Services	: ^X □ N/A						
☐ letter sent	response received	☐ writte	n/email		verbal		no comments received
Alberta Environment and	d Parks:						
letter sent	response received	writte	n/email		verbal		no comments received
Alberta Transportation:	X N∕A						
☐ letter sent	response received	☐ writte	n/email		verbal		no comments received
Alberta Regulatory Serv	ices:						
✓ letter sent ✓ l	response received	writte	n/email		verbal		no comments received
Other: Fortis						□ N/A	
Other:						□ N/A	
letter sent	response received	writte	n/email		verbal		no comments received
Other: Foothills Natu	ıral Gas Coop					□ N/A	
✓ letter sent	☐ response received	☐ writte	n/email		verbal	k □	no comments received



				llots, & storage facilities -
a conc	crete liner)	reediot, and s	torage facility for solid manure, o	composting materials, or compost with
Facilit	ty description / name (as	indicated on site plan)	1. Heifer/Dru	, cow barn
			2	
Manui	re storage capacity			
	Length (AT) P-	Width Corr ff	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m³)
1.	180	70	0	
2.	(54.9 m by 24.3 m)		
			TOTAL CAPACITY	
			TO THE GRI ACT !	Sufficient storage
Surfac Descr	e water control systems ibe the run-on and runoff co		part of thy manure storage and	
iner p	rotection			
Ch	be how the physical integrit NECK For C	y of the liner will be maintain	repair	
			NRCB USE ONLY	
			A STATE OF THE PROPERTY OF THE PARTY OF THE	quirements met: VEC NO



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

Concrete thickness	Method of sulp	hate protection:	
5"	the second secon	blend	
Concrete strength	Concrete reinf	orcement size and spacing	
30 MPA	10 mm	Rebour 15"	spaaing
Concrete requirements can be found in Technical Concrete requirements can be found in Technical Concrete Processing Concrete P	cal Guideline Agdex 096-93	Requirements met: Condition required: Report attached:	YES NO
NRCB USE ONLY			nojec et sitiam .
Nine month manure storage volume requiren	ments met 🖾 YES	YES With STMS \ \ \ NO	
Depth to water table: > 10 m	Req	uirements met: X YES	l no
Depth to Uppermost groundwater resource:	46.33 m Req	uirements met: X YES	l no
ERST completed: See ERST page for deta	nils		
Surface water control systems			
	ls/comments:		
Requirements met X ☐ YES ☐ NO Detail	ls/comments:		
Requirements met X ☐ YES ☐ NO Detail	ls/comments:		
Requirements met X YES NO Detail		e proof that concrete line	er meets NRC
Requirements met X YES NO Detail Indoor facility Concrete liner details		e proof that concrete line	er meets NRC
Indoor facility Concrete liner details A condition will be added requitechnical guidelines	ring applicant to provid		er meets NRCI
Requirements met X YES NO Detail Indoor facility Concrete liner details A condition will be added requi	ring applicant to provid		er meets NRCI