Technical Document RA24010

Part 2 — Technical Requirements



	Application number Lega	I land description
☐ Approval ☐ Registration ☑ Authorization	DA24040)-32-28 W4M
Amendment Amendment		
APPLICATION DISCLOSURE		
This information is collected under the authority of the Agropovisions of the Freedom of Information and Protection of written request that certain sections remain private.	ricultural Operation Practices Act (AOPA), and it f Privacy Act. This information is public unless t	s subject to the the NRCB grants a
Any construction prior to obtaining an NRCB permit i prosecution.	s an offence and is subject to enforcemen	t action, including
, the applicant, or applicant's agent, have read and undersprovided in this application is true to the best of my knowle	stand the statements above, and I acknowledgedge.	e that the information
march 1 2024.		
Pate of signing	Signatur	
Bertens Holsteins Ltd.	Ad Bertens.	
Corporate name (if applicable)	Print name	
GENERAL INFORMATION REQUIREMENTS		
Proposed facilities: list all proposed confined feeding on	peration facilities and their dimensions. Indicat	a whathar any of the
proposed facilities are additions to existing facilities. (atta	ch additional pages if needed)	e whether any of the
Proposed facilities		Dimensions (m) th, width, and depth)
caybarn Expension	24.51	n x 43 m.
	(total final din	nensions 57 m x 43 m)
Existing facilities: list ALL existing confined feeding ope	eration facilities and their dimensions	
Existing facilities: list ALL existing confined feeding ope	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Existing facilities	Dimensions (m)	All verified - see nex
Existing facilities	Dimensions (m)	
	Dimensions (m)	All verified - see nex



Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
- Calving barn/loafing area addition (22.8m x 20.4m) - Maternity pen addition (27.9m x 7.2m) - Vet room (3.6m x 4.8m)		
- freestall barn (north barn) - hospital barn (south barn) - calf barn 1 - solid manure storage		
- deep liquid manure storage (EMS) - calf barn 2		



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

		en to the old facility and w	hen. W N/
	ies Dec. 202		
nstruction completion date for proposed facilit	ies <u>but. 201</u>		
ditional information			
	different from wh	at was identified in the Part 1 a	application Note:
ivestock numbers: Complete only if livestock numb	pers are different from who a new Part 1 application r	at was identified in the Part 1 a	application. Note: i
ivestock numbers: Complete only if livestock numb vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).	pers are different from who a new Part 1 application r	at was identified in the Part 1 a nust be submitted which may r	application. Note: i result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS). Livestock category and type	a new Part 1 application r	Proposed increase or	esuit iii a ioss oi
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	pers are different from who a new Part 1 application r	Proposed increase or decrease in number	application. Note: i result in a loss of Total
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or	esuit iii a ioss oi
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Last updated September 11, 2023



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

Signed	I thisday of	, 20	
			Signature of Applicant or Agent
			Signature of Applicant of Agent
OPTI	ON 2: Processing the A	OPA permit and Water Ac	ct licence separately
		e CFO will need a new wate	r licence from EPA under the Water Act for the ion.
2. I		CB process the AOPA applica	ation independently of EPA's processing of the
3. Ir N	n making this request, I (RCB's decision will not be later licence under the <i>Wa</i>	we) recognize that, if this An considered by EPA as impro- later Act.	OPA application is granted by the NRCB, the oving or enhancing the CFO's eligibility for a
A	OPA permit in the absence	e of a Water Act licence will r Act licence application.	populate the CFO with livestock pursuant to an not be relevant to EPA's consideration of
th	ne Water Act licence appli iolation of the Water Act.	cation is denied or if the ope This risk includes being rec	stock populating will be at the CFO's sole risk if eration of the CFO is otherwise deemed to be in uired to depopulate the CFO and/or to cease kings" (as defined in the Water Act).
6. A	S RELEVANT: I (we) ack nd that, pursuant to the I	knowledge that the CFO is lo Bow, Oldman and South Sas	cated in the South Saskatchewan River Basin katchewan River Basin Water Allocation Order new surface water allocations.
	rovide: Water licence ap		
Signe	d this day of	, 20	Signature of Applicant or Agent

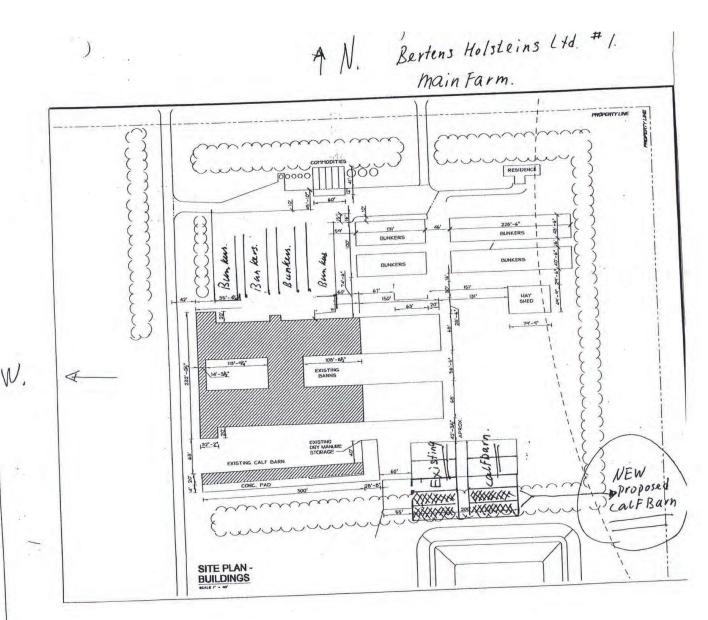


Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

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.
- 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 <u>not</u> 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.
 Provide: Water license number(s) or water conveyance agreement details

Signed this	day of	, 20	
Carlo day			Signature of Applicant or Agent



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							Conservation Boa
Application u	nder the Agricultural Operation Practices Act for a	confined feeding op	peration, manure colle	ection area, and/or n	nanure storage facil	ity(ies)	
(complete	L ENVIRONMENTAL INFORM. this section for the worst case of the exi- scription / name (as indicated on site	sting facility whi	ich is the closest t	to water bodies o	or water wells ar	d for each of the proposed	facilities)
Existing: dairy barn			Propose	Proposed 1: Calf barn expansion			
Propose	d 2:			Propose	d 3:		
Facility and environmental risk		Facilities				NRC	CB USE ONLY
racii	information	Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
nin	What is the elevation of the floor of			П.		VA	

Eacili	Facility and environmental risk		Facilities			NRCB USE ONLY	
raciii	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?	☑ >1 m □ ≤1 m	☑ >1 m □ ≤1 m	□ >1 m □ ≤1 m	□ > 1 m □ ≤ 1 m	YES NO YES with exemption	>1 above flood plain
er .	How many springs are within 100 m of the manure storage facility or manure collection area?	0	9			YES NO YES with exemption	None observed during a site visit
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	1.	0			YES NO YES with exemption	One WW located w/i 100 of an existing barn
Sur	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	730	>30			YES NO YES with exemption	Verified
water	What is the depth to the water table?		>7.5m			YES NO YES with exemption	Measured at 5 m
Groundwater	What is the depth to the groundwater resource/aquifer you draw water from?	30m	30m			YES NO YES with exemption	UGR identified at 24.1 m in WW ID# 253891

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

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	SCREENING INFORMATI	OIV	
RST for <u>proposed</u> facilities			
Facility	Groundwater score	Surface water score	File number
Expansion of calf barn	Low	Low	RA24010
RST for <u>existing</u> facilities			
Facility	Groundwater score	Surface water score	File number
EMS	Low	Low	RA14027
Maternity pen	Low	Low	RA14027
Dairy barn	Low	Low	RA14027



NRCB USE ONLY WATER WELL AND SURFACE	WATER INFORMATI	ON	
Well IDs:253891			
Surface water related concerns from di	rectly affected parties or ref	erral agencies:	☐ YES 🗹 NO
Groundwater related concerns from dir	ectly affected parties or refe	rral agencies:	☐ YES 🗹 NO
Water wells N/A If applicable, exemption for 100 m dist	ance requirements annlied.	□ VES □ NO Condition	n required: YES NO
Surface water N/A	ance requirements applied.	L TES L NO CONDITION	Trequired. Lifes Lino
If applicable, exemption for 30 m dista	nce requirements applied:	YES NO Condition	required: YES NO
Water Well Exemption Screening T	ool 🗸 N/A		
Water Well ID	Preliminary Screening	Secondary Screening	Facility
	Score	Score	
Groundwater or surface water rela	ted comments:		



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

				NRCB USE ON	-Υ	
Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
	A	All nearby land an	d residences with	hin 800 m are ow	ned by the applicar	nt Yes
		Legal land description Distance (m)	Legal land description Distance (m) CuB) category	Legal land description Distance (m) Zoning (LUB) category (1-4)	Legal land description Distance (m) Distance (m) Legal land description Distance (m) Legal land description Distance (m) Category (1-4) Distance (m)	Legal land description Distance (m) CLUB Category Cm Waiver attached

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

				NRCB US	E ONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
	N/#-				
			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)

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^{**} 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



NRCB USE ONLY					
MINIMUM DISTANCE SEPARATION					
Methods used to determine distance (if applicable):	Google Earth				
Margin of error (if applicable):					
Requirements (m): Category 1:487 Ca	ategory 2:650_	Category 3:812	2 Category 4:1,300		
Technology factor:			s 🗸 no		
Expansion factor:			s 🗹 no		
MDS related concerns from directly affected parties	or referral agencie	es: YE	s 🔽 no		
		TION Requirement met: Y 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, seeRA02030					



NRCB USE ONLY									
ALL SIGNATURES I	IN FILE	✓ YES □]NO						
DATES OF APPROVAL OFFICER SITE VISITS									
April 9, 2024									
CORRESPONDENCE	E WITH MUNICIPAL	ITIES AN	ID REFERR	AL A	AGENCIES	,			
Date deeming letters sent	::March 5, 2024								
Municipality:Moun	tain View County								
letter sent	response received	writter writter	n/email		verbal		no comments received		
Alberta Health Services	s: N/A 🗸								
☐ letter sent	response received	☐ writter	n/email		verbal		no comments received		
Alberta Environment ar	nd Parks:								
letter sent	response received	☐ writter	n/email		verbal	₽′	no comments received		
Alberta Transportation	: V/A								
☐ letter sent	response received	☐ writter	n/email		verbal		no comments received		
Alberta Regulatory Services:									
✓ letter sent	response received	☐ writter	n/email		verbal		no comments received		
Other:Crossroad Gas	s Coop								
letter sent	response received	☐ writter	n/email		verbal	₽′	no comments received		
Other:	her: 🗸 N/A								
☐ letter sent	response received	☐ writter	n/email		verbal		no comments received		



Depth below grade to the	
Depth below grade to the	
bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m³)
0	6 months
TOTAL CAPACITY	
controlled by wall	is and roof,
naintained	
K.	
	S) as part of my manure storage and hem Solid Manure Storage Requirements con trolled by wall maintained

Concrete liner (cont.)

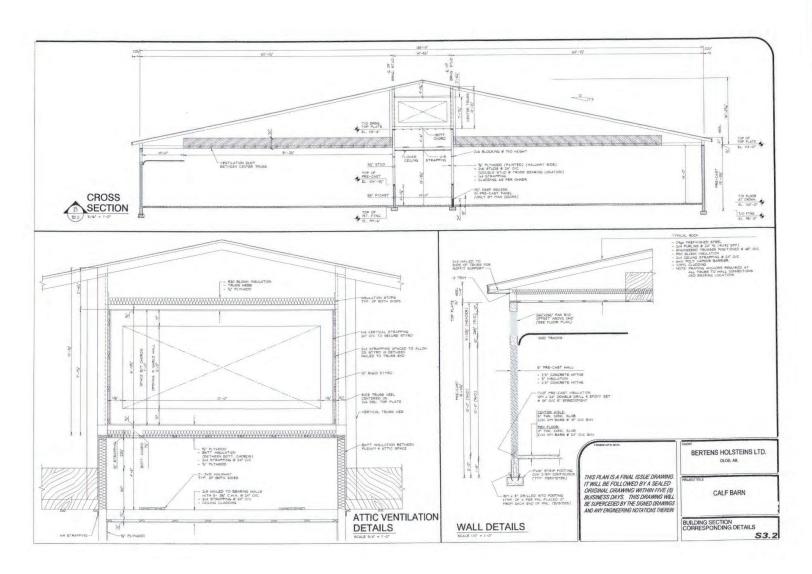


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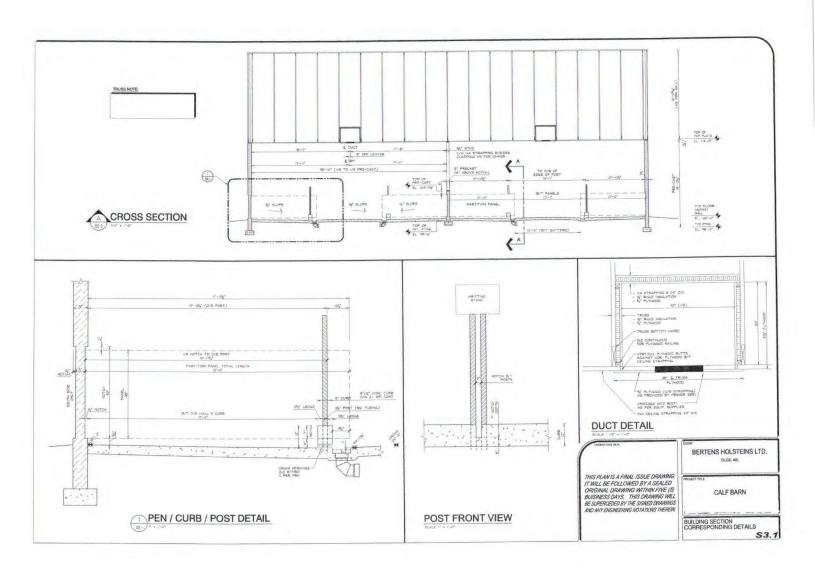
SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities -

Concrete liner details Concrete thickness	Method of su	lphate protection:						
14		type so						
\mathcal{O}	171							
Concrete strength	Concrete rein	forcement size and s	spacing					
32 MPA. @ 56 days.	10 m	m rebar.	max spacing 18"					
Concrete requirements can be found in Technical Guide 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	eline Agdex 096-93	Requiren Condition						
Additional information (attach as required) NRCB USE ONLY								
Nine month manure storage volume requirements m	et 🛛 YES 🗸	YES With STMS	□ NO					
Depth to water table: 5 m	•	quirements met:	✓ YES □ NO					
	21.4 m Re	quirements met:	YES NO					
ERST completed: see ERST page for details								
Surface water control systems								
Requirements met: YES NO Details/comm	nents:							
Concrete liner details								
A condition will be included in the authorizat meets the regulations	ion requiring the p	ermit holder to pro	vide proof that the constructed line					
Leakage detection system required: YES VNC	If yes, please expl	ain why.						

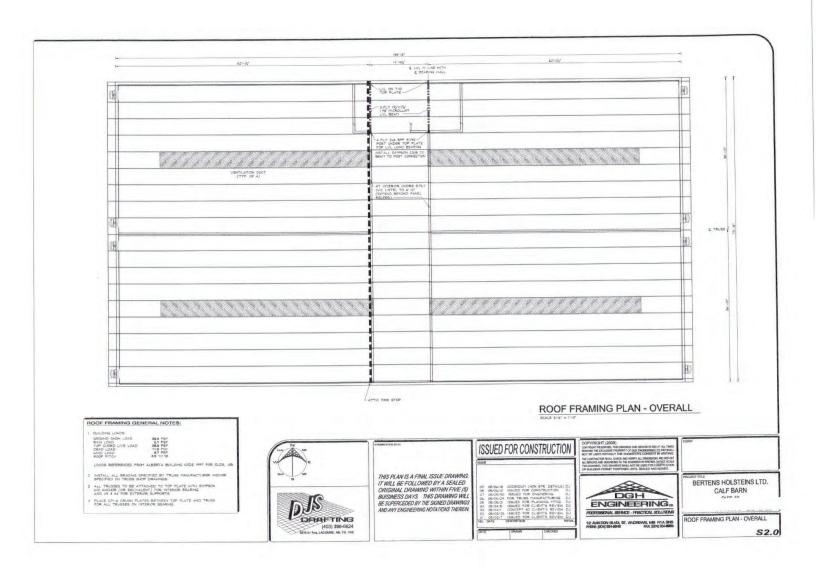
Last updated February 26, 2021



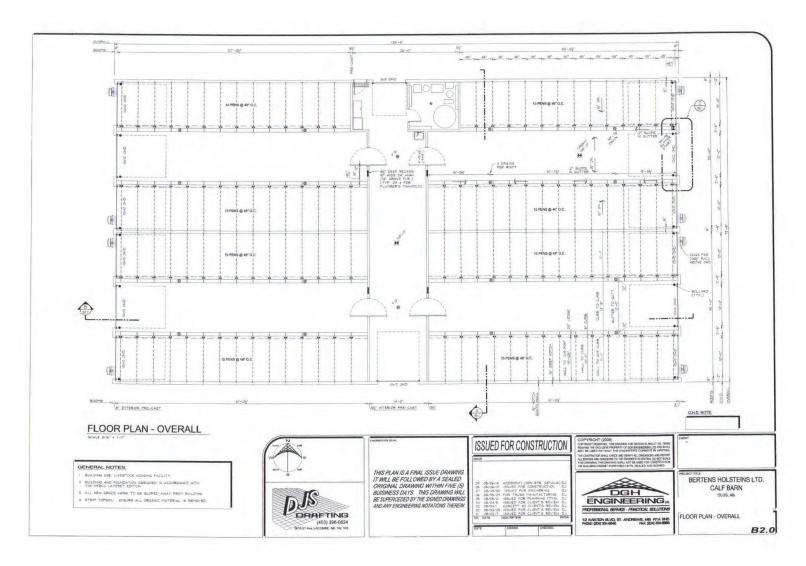
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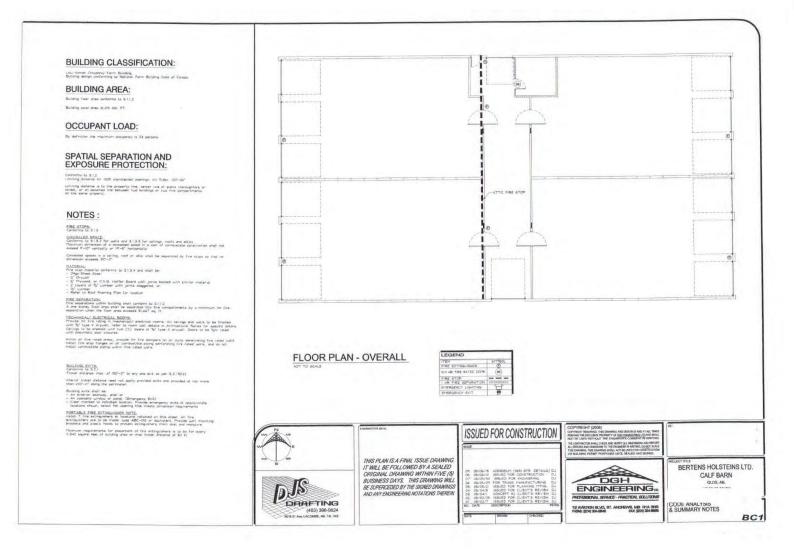
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