Technical Document RA24035

Part 2 — Technical Requirements



NRCB USE ONLY	Application number	Legal	and description	
Approval Registration Authorization RA	24035	SW19-40-17-W4M NE13-40-18-W4M NE, S1/2 24-40-18-W4M		
PPLICATION DISCLOSURE				
nis information is collected under the authority of the Agricular rovisions of the Freedom of Information and Protection of Proritten request that certain sections remain private.	Itural Operation Practices Act (ivacy Act. This information is p	AOPA), and is ublic unless th	subject to the e NRCB grants a	
ny construction prior to obtaining an NRCB permit is a rosecution.	an offence and is subject to	enforcement	action, including	
the applicant, or applicant's agent, have read and understated in this application is true to the best of my knowledge $Aua/1/2024$		I <u>ackn</u> owledge	that the information	
ate of signing	Signature			
butterian Brethmon of Red Willow	bal	Laler		
orporate name (if applicable)	Print name	Teres		
ENERAL INFORMATION REQUIREMENTS Proposed facilities: list all proposed confined feeding oper	ration facilities and their dimen	cione Indicate	whether any of the	
proposed facilities are additions to existing facilities. (attach		Storis, Indicate	Whether any or the	
Proposed facilities			imensions (m)	
			h, width, and depth)	
Convert existing Sheep Barn to B	& Layer Barn	121.9m	x 24.4m	
0 . (00)	Jane			
	,			
Add Packing Egg room + cooler + Add storage shed to park ma	o existing building	18m;	x 24m	
Decommission the existing cal	tch basin and pens (sh	neep(S.7	x 24.4	
Existing facilities: list ALL existing confined feeding opera	tion facilities and their dimensi	ons		
Existing facilities	Dimensions (length, width, a		NRCB USE ONLY	
Turkey Barn	400 x 78.7	feet	Confirmed	
	200.1 x 59	.1 feet	Confirmed	
Turkey Storage	104 x 40	feet	Confirmed	
	Up to the control of	San Face Park and a series		



Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Duck Barn	92 x 30 feet	Confirmed
Layer Barn	58 x 40 m	Confirmed
Calf Barn	30x15 m	Confirmed
Dairy Barn	6/x26m	Confirmed
Calving Shed	61x26m	Confirmed
Beef Feedlot	222×79m	Confirmed
Beef catch basin	45.7m x 30.5m	Confirmed
Sheep Barn	121.9 x 24.4 m	To be coverted
Sheep Pen	121 x 30.5 m	To be decommissioned
Sherp Got Basin Pen	121 x 30.5 m	To be decommissioned
Sheep catch Basin	45.7 x 24.4 m	To be decommissioned
Pullet Barn	39.6 x 10.7 m	Confirmed
Ems (dairy)	91.4×91.4m	Confirmed
(soose shed	20 x 9 m	Confirmed
HAR TOTAL AND		



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

f a new facility is replacing an old facility, please	e explain what will hap	pen to the old facility and w	nen. 🗆 N/A
Converting existing	Sheep Barn	to Organic Lo	yers,
onstruction completion date for proposed facilit	ties Allega S	September 20%	
dditional information			
Construction will also include a storage shed for	the manure truck and a	an egg packing/cooler room (a	ancillary)
ivestock numbers: Complete only if livestock numb	pers are different from wh	at was identified in the Part 1 ar	polication Note: if
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)	Permitted number	Proposed increase or decrease in number (if applicable)	Total
Same as part 1			

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

<u>OP</u>	TION 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.
Cia	ned thisday of, 20
Siyi	Signature of Applicant or Agent
<u>OP</u>	TION 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 <i>Water Act</i> .
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 <i>Water Act</i> licence will not be relevant to EPA's consideration of whether to grant the <i>Water Act</i> licence application.
5.	I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the <i>Water Act</i> licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the <i>Water Act</i> . This risk includes being required to depopulate the CFO and/or to cease
6.	further construction, or to remove "works" or "undertakings" (as defined in the <i>Water Act</i>). AS RELEVANT: I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin
	and that, pursuant to the <i>Bow, Oldman and South Saskatchewan River Basin Water Allocation Order</i> [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7.	Provide: Water licence application number(s)
Sig	ned this day of, 20
	Signature of Applicant or Agent
<u>OP</u>	TION 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
Siq	ned this day of, 20
- 3	Signature of Applicant or Agent

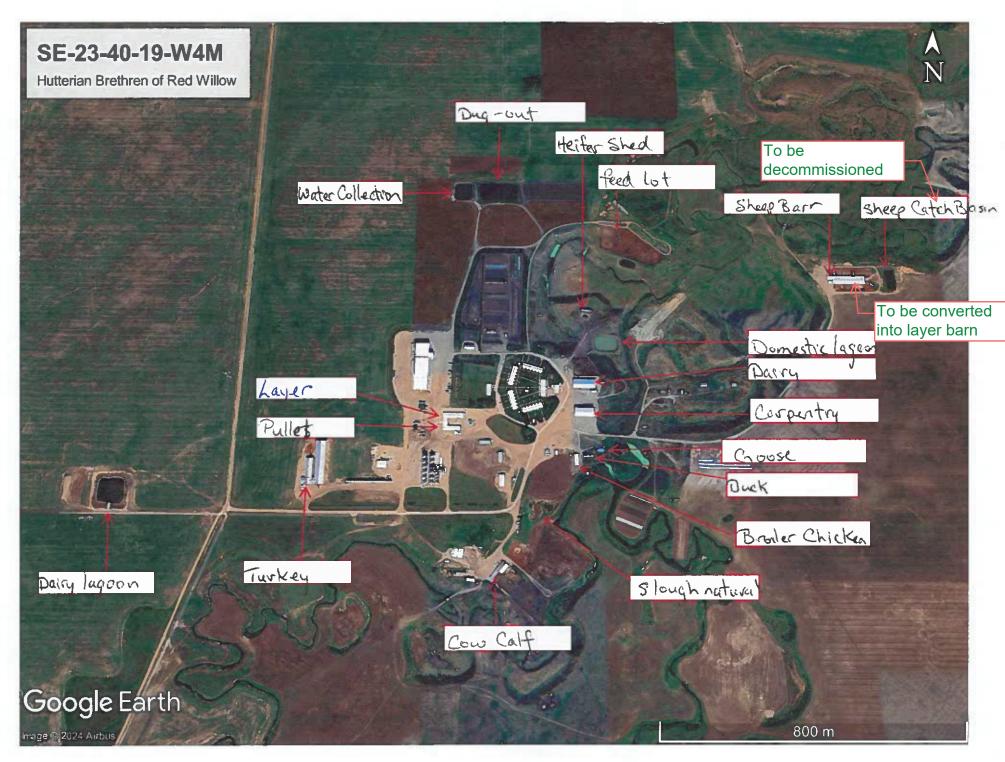


Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

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.
- 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 ag	greement details
Signed this 2 day of August, 2024.	Si <u>c</u> pplicant or Agent



GENERAL ENVIRONMENTAL INFORMATION



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

	nis section for the worst case of the exist cription / name (as indicated on site		ch is the closest t			_	posed facilities)	
Existing: Step Barn Proposed 1: Layer Barn Proposed 2: Proposed 3:								
Facili	by and anvironmental rick		Faci	lities			NRCB USE ONLY	
Facility and environmental risk 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 m	>1 m ≤ 1 m	□ >1 m □ ≤ 1 m	□ > 1 m □ ≤ 1 m	YES NO YES with exemption	Confirmed at site visit	
	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			YES NO YES with exemption	Confirmed at site visit	
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	0	0			YES NO YES with exemption	Confirmed at site visit	
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	120m	(20m			YES NO YES with exemption	confirmed at site visit	
roundwater	What is the depth to the water table?	5.3m	5.3m			YES NO YES with exemption	Confirmed	
round	What is the depth to the	91,00	9.lm			YES NO	identified at 10.6m in WW ID's 290732 & 295654	

exemption

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

draw water from?



Facility Layer barn	Groundwater score	1	
Layer barn		Surface water score	File number
	Low	Low	RA24035
ERST for <u>existing</u> facilities			
Facility	Groundwater score	Surface water score	File number
Dairy barn	Low	Low	RA09039
Beef feedlot	Low	Low	RA09039
Turkey barn (x2)	Low	Low	RA09039A
Feedlot catch basin	Low	Low	RA10021
Pullet barn	Low	Low	RA13016
EMS (dairy)	Low	Low	RA18008A



NRCB USE ONL WATER WEL		WATER INFORMA	TION					
Well IDs:	290732	295654	ļ					
Well 1D3.								
Surface water re	lated concerns from di	rectly affected parties or	referral agencies:	☐ YES ☑ NO				
Groundwater related concerns from directly affected parties or referral agencies:								
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, exc	emption for 30 m dista	nce requirements applied	: YES NO Condition	n required: YES NO				
Water Well Ev	emption Screening To	ool 🔽 N/A						
		OOI PANA						
Wat	er Well ID	Preliminary Screening Score	Secondary Screening Score	Facility				
		30016	Score					
Groundwater of	r surface water rela	ted comments:						
No water w	ells within 100m	of proposed layer b	arn					
Dod Willow	Crook is 100m n	orth of proposed lov	vor horn					
Red Willow	Creek is Toolii iii	orth of proposed lay	/er parri					



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

			NRCB USE ONLY						
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations		
Wayne Holtz	SW2040174	1600	Agricultural	1	1,600	NA	Yes		
ED Fletcher	NW 12 40 184	1600	Agricultural	1	1,600	NA	Yes		
Broan Hetcher	NE 10 40 184	3200	Agricultural	1	3,200	NA	Yes		
Dale Ventor	NW 3040 174	1800	Agricultural	1	1,800	NA	Yes		
Sheldon Watson	SE 2040174	2400	Agricultural	1	2,400	NA	Yes		

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

				NRCB	USE ONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
Red Willow Colony	Sec 1940 174	640 ac	Dark Brown	384.67 ac	NA
Red Willow Colony	Sec 1440184	640 ac	Dark Brown	605.27 ac	NA
Red Willow Colony	Sec 22 40 18 4	640 ac	Park Brown	622.47 ac	NA
Red Willow Colony	Sec 13 40 184	640 ac	Dark Brown	529.75 ac	NA
Red Willow Colony	23-40-18-W4M	640 ac	Black	633.9 ac	NA
After sending a land base defici	ency email, additional land w	vas provided by	applicant Total	2776.06 ac	

^{*} 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)

According to the Alberta Soil Survey map, Hutterian Brethren of Red Willow is in black chernozemic soil zone

^{**} 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 determin	Methods used to determine distance (if applicable): Google Earth								
Margin of error (if applicat									
Requirements (m): Catego	ory 1: <u>700</u>	Ca	tegory 2:	934	Category 3	3: <u>1167</u>	_ Categor	y 4: <u>1867</u>	
Technology factor:						☐ YES 【	Z NO		
Expansion factor:						☐ YES Ç	Z NO		
MDS related concerns from	n directly affected	parties o	or referra	l agencie	s:	☐ YES ☐	₹ NO		
LAND BASE FOR MA Land base required: Land base listed: Area not suitable: Available area Land spreading agreement Manure management plan	2165.7 ac 3200 ac 423.94 ac 2776.06 ac ts required:	COMPO	☑ NO	PLICAT	Requirement ma	_			
PLANS									
Submitted and attached co	onstruction plans:		☑ YES	□ NO					
Submitted aerial photos:			✓ YES	□ NO					
Submitted photos:			YES	☑ NO					
GRANDFATHERING									
Already completed:			☑ YES		□ N/A				
If already completed, see	RA09039				-				



NRCB USE ONLY							
ALL SIGNATURES	☑YES □NO						
DATES OF APPROV	/AL OFFICER SITE V	ISITS					
August 7, 2024							
	E WITH MUNICIPAL	ITIES AN	ID REFERRAI	L AGENC	ES		
Date deeming letters sen	t: August 22, 2024						
Municipality: County	of Stettler			_			
letter sent	response received	☑ writter	n/email [□ verbal		no comments received	
Alberta Health Service	es: 🗹 N/A						
☐ letter sent	☐ response received	☐ writter	n/email [☐ verbal		no comments received	
Alberta Environment a	nd Parks:						
letter sent	☐ response received	☐ writter	n/email [□ verbal		no comments received	
Alberta Transportation	ı: ☑ N/A						
☐ letter sent	\square response received	☐ writter	n/email [☐ verbal		no comments received	
Alberta Regulatory Ser	vices: N/A						
☐ letter sent	☐ response received	☐ writter	n/email [verbal		no comments received	
Other: Ember Resou	rces Inc.] n/a		
☑ letter sent	response received	☐ writter	n/email [☐ verbal	_	no comments received	
Obsidian E							
Other: Obsidian Ener	Т] N/A		
☑ letter sent	☐ response received	☐ writter	n/email [verbal	abla	no comments received	
Other: Paintearth Ga	s Co-op						
✓ letter sent	√no comments receiv	red					



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

			reding operation, mandre conection area and	
Con:	crete liner			omposting materials, or compost with
Facili	ity description / name (as indicated on site plan)	1. Layer Barn	
			2. Storage shed	For manure truck.
Manu	re storage capacity		· · · · · · · · · · · · · · · · · · ·	
	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m³)
1.	121.9	24.4	0	
2.	18	10	0	
			TOTAL CAPACITY	
VI.	plan to use a short-term s	olid manure storage (STMS)	as part of my manure storage and I	handling plan for this CFO. The AOPA
			Solid Manure Storage Requirements	
Ė				
$\overline{}$	ce water control system			
Des	cribe the run-on and runof	f control system		
Building with roof and walls.				
Liner	protection			
		grity of the liner will be main	ntained	
	Turnet th	o floor ever	whime we down	the Barn.
Inspect the floor every time we clean the Barn.				

NRCB USE ONLY

Requirements met:

✓ YES

NO

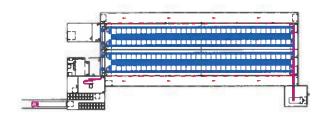


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SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities -Concrete liner (cont.) Concrete liner details Concrete thickness Method of sulphate protection: Concrete strength Concrete reinforcement size and spacing Concrete requirements can be found in Technical Guideline Agdex 096-93 **NRCB USE ONLY** Guideline minimums: YES NO Requirements met: Solid manure: 25MPa (D) Solid manure (wet): 30MPa (C) Condition required: Method of sulphate protection: Type 50 or Type 10 with fly ash or equivalent YES NO Report attached: Additional information (attach as required) **NRCB USE ONLY** YES With STMS Nine month manure storage volume requirements met YES ... NO 5.3m YES NO Depth to water table: Requirements met: Depth to Uppermost groundwater resource: 10.6m Requirements met: ERST completed: see ERST page for details Surface water control systems Requirements met: YES NO Details/comments: Barn roof and walls prevent run on/off Concrete liner details Concrete liner over previously permitted clay liner Condition requiring concrete to meet the specifications for category D (solid manure – dry), in Technical Guideline Agdex 096-93 "Non-Engineered Concrete Liners for Manure Collection and Storage Areas" Leakage detection system required: TYES NO If yes, please explain why.



RED WILLOW COLONY ALBERTA



NEBULA CONTROLS LTD.

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