

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
Approval Registration Authorization	RA25028	NW 3-43-26 W4M

#### 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.

Cor Haagsma	Cor Haagsma Digitally signed by Cor Haagsma Date: 2025.03.29 09:23:56 -06'0
Date of signing	Signature
March 28, 2025	Cor Haagsma
Corporate name (if applicable)	Print name

**GENERAL INFORMATION REQUIREMENTS** 

proposed facilities are additions to existing facilities. (attach additional pa Proposed facilities	Dimensions (m) (length, width, and depth)
East barn with centre manure pit.	104.9 x 36.6
Connector between east and west barn	7.3 x 6.1 x1.2m

Existing facilities: list ALL existing confined feeding operation facilities and their dimensionsExisting facilitiesDimensions (m)<br/>(length, width, and depth)NRCB USE ONLYT- shaped dairy barn, including liquid manure pits104.9 x 33.5 and 51.6 x 23.8CalfbarnYoung stock facility with concrete floor, including manure85 x 15.25CalfbarnCalfbarn29.9 x 21.4Calfbarn



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

Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Solid manure storage building	42.7 x 15.25	A Part and a second
Deep liquid manure storage facility	100 x 75 x 5	C. M. Stark
Solid Manure Storage	33.5 x 48.8	2 5 1
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		White a vy
		2.1
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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)

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

Additional information

Find attached the floor plan for the east barn.

**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
actating cows plus all associated dries, heif	400	225	625
-			· · · · · · · · · · · · · · · · · · ·
			-

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

### 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) 00349533-00-00

Signed this 28	day of March	, <sub>20</sub> 25	Cor Haagsma	Digitally signed by Cor Haagsma Date: 2025.03.29 09:24:46 -06'00'
	_ ddy or		Sig	nature 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 \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_.

Signature of Applicant or Agent

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)

# 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 agreement details \_

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Signature of Applicant or Agent





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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)

west barn

Existing: \_ ..... Proposed 1: east barn

Descended 2.

Prop	Proposed 2: Proposed 3:					d 3:		
Facility and environmental risk			Faci	lities		NRCB USE ONLY		
ſ	acint	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?	■ >1m	⇒1 m ∴ ≤ 1 m	□ >1 m □ ≤ 1 m	[] > 1 m [] ≤ 1 m	YES NO	
er	5	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			YES NO YES with exemption	
Surface water	information	How many water wells are within 100 m of the manure storage facility or manure collection area?	2	2			YES NO YES with exemption	
Su	'n	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	480	480			YES NO YES with exemption	
lwater ation		What is the depth to the water table?	7	7			YES NO YES with exemption	
Groundwater		What is the depth to the groundwater resource/aquifer you draw water from?	82	82			YES NO YES with exemption	

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

Attachment 3 and 4

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)

#### 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
Churchill	SW10-43-26-W4	395					
Fenske	SW10-43-26-W4	461					1
Anderson	SW10-43-26-W4	545		1		1	1
Jones	NE4-34-26-W4	637					
Vleemng	NW3-43-26-W4	626					

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)	
Poly-C Farms Ltd	N1/2 3-43-26-W4	100	Black			
Poly-C Farms Ltd	SE10-43-26-W4	122	Black			
Poly-C Farms Ltd	W1/2 15-43-26-W4	90	Black			
Poly-C Farms Ltd	SW2-43-25-W4	54	Black			
Poly-C Farms Ltd	NE6-43-27-W4	51	Black			
	1		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)

-Churchill and Fenske property are built after Poly-C Farms established the current MDS.

-Surveyor report included to show determined distances to Anderson. (attachment 5 and 6)

-Additional land base for manure spreading; All owned by C&C Haagsma, N1/2 16-43-26-W4 120 ha, SE9-43-26-W4 58 ha and NW32-43-26-W4 37 ha. All of these have black soil zone.

Last updated September 11, 2023

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Figure 2 Detailed Sile hayout Plan EMS A"> 10" 241

NW3-43-26-W4 N Poly-C Jormo Ud 1



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

#### LIQUID MANURE COLLECTION AND/OR STORAGE: In-barn - Concrete liner (complete a copy of this section for EACH proposed in-barn liquid manure storage facility with a concrete liner)

Facility description / name (as indicated on site plan) 1. Ea

1. East barn liquid manure storage including connector.

3.

2.\_\_\_\_

Manure storage capacity (use one row in the table for EACH in-barn storage. Attach additional pages if you require more rows)

		Length (m)	Width (m)	Total depth (m)	Depth below ground level (m)	NRCB USE ONLY Calculated storage capacity (m <sup>3</sup> )
Pet	1.	42.7	3.5	1.2	1.4	
_	2.	104.g	36.6			
Ban	3.		1.00			N
	-				TOTAL CAPACITY	

	Concrete thickness		Method of sulp	hate protection
	13 cm		Type 50 conci	rete
Scrape alleys or				
unslatted portions of barn floors (if	Concrete strength		Concrete reinfo	prcement size and spacing
applicable)	35 mpa at 56 days		10 mm rebar o	on 40 cm spacing
	Concrete thickness		Method of sulp	hate protection
	20 cm		Type 50 conce	rete
In-barn manure pit				
floors	Concrete strength		Concrete reinfo	prcement size and spacing
	35 mpa at 56 days		15 mm on 30	cm spacing
	Concrete thickness		Mathad of cula	hate protection
	20 cm		Type 50 conc	•
In-barn manure pit				
walls	Concrete strength 35 mpa at 56 days	Horizontal rein and spacing	forcement size	Vertical reinforcement size and spacing
	so mpa at so days	15 mm rebar of spacing	on 15 cm	15 mm rebar on 30 cm spacin

Last updated: 31 Mar 2020

Page \_\_\_\_ of \_\_\_

**NRCB USE ONLY** 



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

IQUID MANURE COLLECTION AND/OR STORAG	iE: In-barn - Concrete liner (	cont.)
Describe how the joints at the junction of the pit walls, pit floors	and any other joints will be sealed	
olclay waterstop will be used at junctions and any other join	nts	
Describe sealing practices for piping, etc. that penetrates the line		
olclay water stop will be used at junctions and any other jo	ints.	
	-	
	NRCB USE ONLY	
Concrete requirements can be found in Technical Guideline Agdex 096-93 Guideline minimums:		
Solid manure (wet): 30MPa (C) .lquid manure: 32MPa (B)	Requirements met:	YES NO
Category A is required to be engineered Method of sulphate protection:	Condition required:	YES NO
Type 50 or Type 10 with fly ash or equivalent	A King a station of the state	
dditional information		
See attachment 9 for Manure Pit Detail.		
see attachment 9 for Manure Pit Detail.		
NRCB USE ONLY		
Liquid manure storage volume calculator attached: 🔲 YES 🛄 N	10	
Depth to water table:	Requirements met:	
A CONTRACT OF A CONTRACT. CONTRACT OF A CONTRACT. CONTRACT OF A CONTRACT. CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT. CO		
Depth to uppermost groundwater resource:	Requirements met:	
ERST completed: See ERST page for details		
Concrete liner requirements		
Leakage detection system required:	NO If yes, please explain why	
	A CONTRACT OF	
	A PARTY AND A PART	

NRCB USE ONLY

# Attachmend 5

# BEMOCO LAND SURVEYING LTD. PROFESSIONAL LAND SURVEYORS

Our File: S-003-25

February 28th, 2025

Cor Haagsma Box 1, Site 3, RR#4 Ponoka, Alberta, T4J 1R4

> RE: N.W. ¼ Sec. 3, Twp 43, Rge 26, W4Mer And Lot 4, Block 1, Plan 052 2226 Proximity of Feeding Operations to Residence

Based upon our field measurements on January 14<sup>th</sup>, 2025 we have determined that the distance between the residence within Lot 4, Block 1, Plan 052 2226 and the closest barn corners within the N.W. ¼ Sec. 3, Twp 43, Rge 26, W4Mer is 545m (1788') and 594m (1949') respectively.

Enclosed is a sketch mark up of the survey measurements

**Kind Regards** 

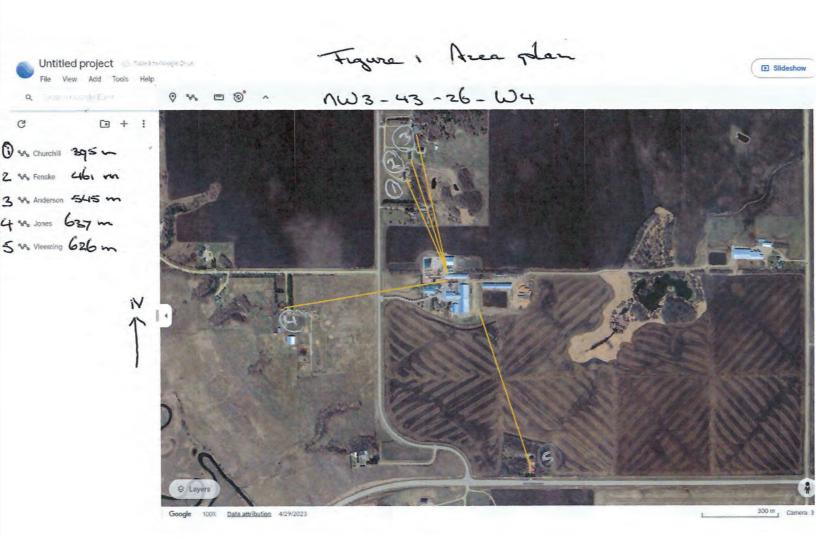


Kevin Vennard, A.L.S. Bemoco Land Surveying Ltd.

Attachment 6



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P.O. Box 4248 Ponoka, AB. T4J 1R6 Telephone: 403-783-8229 Facsimile: 403-783-5222

November 8, 2013

Hoch ment 8

NRCB #301 4920 51<sup>st</sup> Street Red Deer, AB T4N 6K8 Attention: Francisco Echegaray, P.Ag Approval Officer

Re: EMS Construction Inspection Authorization RA12058 NW 3-43-26-W4M Poly-C Farms Ltd.

Dear Francisco Echegaray,

In accordance with condition 1 of Authorization RA12058, Envirowest Engineering undertook an inspection and testing of the construction of the EMS located at NW1/4 3-43-26-W4M. Inspections and consultation with the construction contractor occurred during construction with final testing occurring on November 8, 2013. Some construction was yet to be completed at the time of inspection. The wall dividing the new portion of the EMS from the existing storage was yet to be removed and an additional lift was required on a portion of the floor.

The EMS was found to be 100 meters long and 75 meters wide. The overall depth is 5 meters. The above grade dykes were approximately 0.5 meters above grade. The topsoil was yet to be placed on the freeboard and dyke crest. The inside dyke wall slope is approximately 3:1. The storage capacity of the facility is in excess of the 9 months manure production required by the AOPA regulations.

A compacted clay liner was installed in the side walls and floor of the EMS. The liner depth was verified to be 1 meter thick. The liner material used was that tested as part of the original site assessment and the facility is located in the area proposed. Some of the liner material used was from the material excavated from the area. The remainder was from a borrow area to the east of the construction site. Other areas further east were investigated for potential liner material during construction of the facility. Material was located in the second borrow area however sufficient material was able to be removed from the original borrow site to complete the liner. Some mixing of liner material occurred during removal from the borrow area.

The recommended construction procedures were followed. There was some freezing of the liner material but compaction could still be achieved as the material was worked. Compaction was accomplished with a sheep foot roller. No groundwater was encountered during the construction of the EMS. The groundwater was more than 1 meter below the bottom of the EMS at the time of construction. Several wet sand pockets were encountered during construction of the liner. The pockets were removed and filled with compacted clay.

Compaction testing of the liner was undertaken for the EMS. Results of the testing are detailed below.

Test Location	Maximum Dry Density (kg/m <sup>3</sup> )	Optimum Moisture (%)	Tested Density (kg/m <sup>3</sup> )	Moisture Content (%)	% Compaction
North Wall Center	1760	19	2069.8	9.8	100+
South Wall Eastr	1760	19	1868.6	5.9	100+
Floor Northeast	1760	19	1978.9	6.9	100+

The liner compaction meets the specified requirements. The moisture content was less than optimal. This was likely due to some mixing of liner material and weather conditions.

With this testing and report, condition 1 of the authorization is considered to be complete. No further action is considered necessary at this time.

Yours truly

Shawna Low, P.Eng Envirowest Engineering Inc.

c.c: Poly-C Farms Ltd.

2

