

# Technical Document RA24002

## 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)

<b>NRCB USE ONLY</b> <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	Application number	Legal land description
	RA24002	SW 2-36-13 W4M and SE 3-36-13 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.

Jan 31 2024  
 Date of signing  
 Suncrest Farming Co  
 Corporate name (if applicable)

[Redacted Signature]  
 Signature  
 Paul Hofer  
 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)
New Layer Barn Attached manure storage	120.4 X 32.6 X 4.25 21.3 m x 9.1 m
Applicant will also be decommissioning the existing layer barn	

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Layer Barn (1981)	52.3 x 12.3 m	
Broiler Barn (1986)	54.7 x 11.2 m	

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Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Saw Barn (1980)	92.3 x 12.3	
Farrow Barn (1980)	92.3 x 12.3m	
Feeder Barn (1980)	80m x 12.3m	Existing facilities confirmed
Pre-grower & Grower Barn (1989)	92.3 x 20m	
Dairy Barn (2011)	<sup>L</sup> 88.4 x <sup>W</sup> 46.3 x <sup>H</sup> 6.2m	
Calf Barn (2011)	36 x 20.1m	
(Item 1-3 below were added to this document April 29-2024)		
1) Dairy replacement facility (RA13013)	192m x 67m	
2) Dairy liquid earthen manure storage (RA10046B)	79m x 49m x 4.3m deep	
3) hog liquid earthen manure storage (1980)	92m x 46m x 4.6m deep.	

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If a new facility is replacing an old facility, please explain what will happen to the old facility and when.  N/A

2

Construction completion date for proposed facilities June 2026

**Additional information**

Plan's for old barn are to ~~get~~ remove layer equipment & use building for storage, (est time 2026-2028)

**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
Layer s	17500	12500	30,000

Last updated February 26, 2021

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### **DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE**

issued by Alberta Environment and Parks (AEP) 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 AEP 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 AEP'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 AEP 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 AEP'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.

Signed this 29 day of Jan, 20 24.

\_\_\_\_\_  
*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 AEP under the *Water Act* for the development or activity proposed in this AOPA application.

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

\_\_\_\_\_  
*Signature of Applicant or Agent*

#### **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 AEP 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 AEP'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 AEP 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 AEP'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.

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

\_\_\_\_\_  
*Signature of Applicant or Agent*



Suncrest Colony

Proposed layer barn with attached manure storage

Image © 2024 Airbus



Imagery Date: 7/23/2023 52°03'37.61" N 111°45'57.01" W elev 0 m eye alt 1.77 km

RA24002

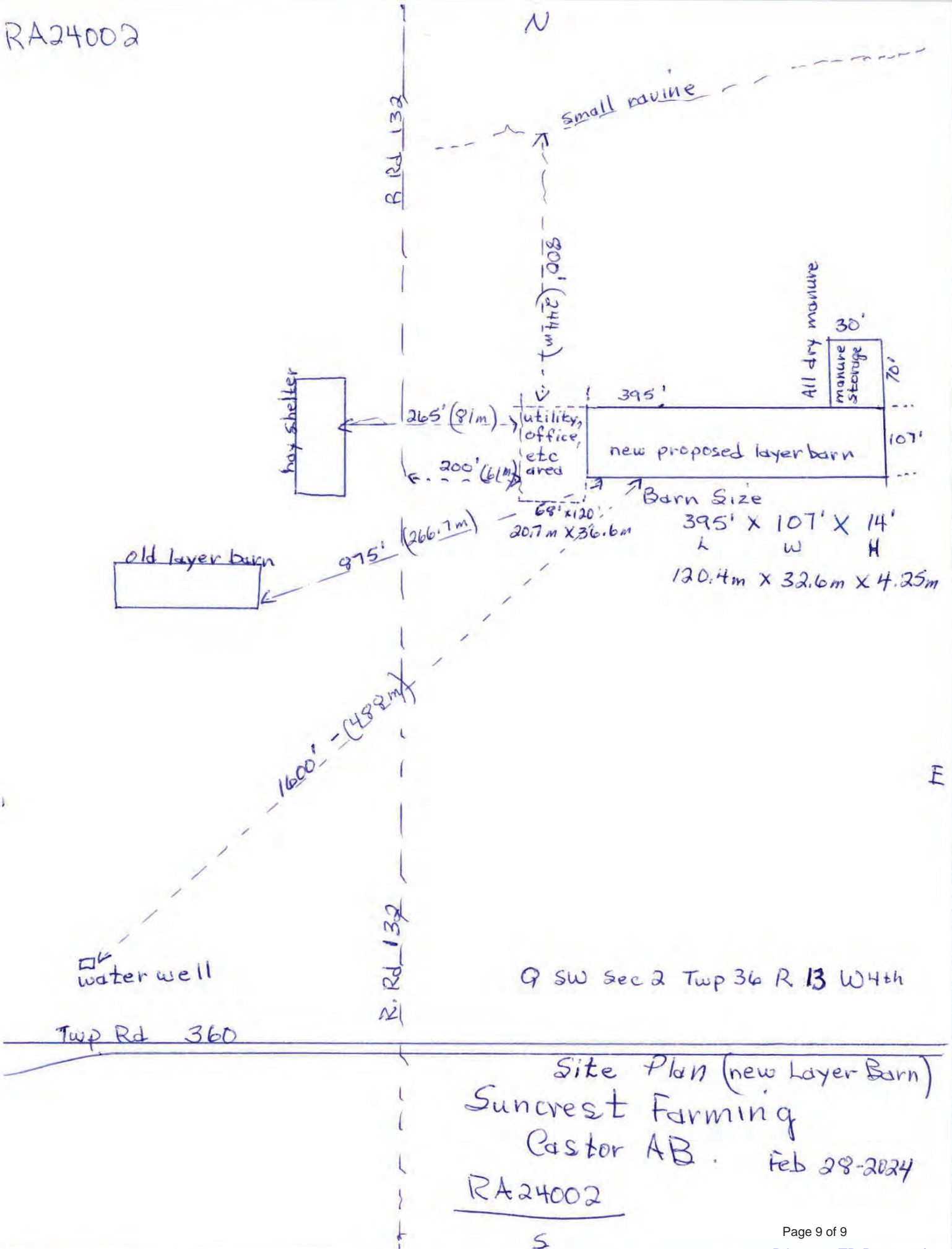




Image © 2024 Airbus

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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: hog Barn's

Proposed 1: Layr barn

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 checked="" 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	> 1 m confirmed
	Surface water information						
Surface water information	How many springs are within 100 m of the manure storage facility or manure collection area?	None	None			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None, confirmed on site
	How many water wells are within 100 m of the manure storage facility or manure collection area?	None	None			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None, closest well ~390 m SW of proposed barn
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	240'	240'			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Slough ~280 m north of proposed barn
Groundwater information	What is the depth to the water table?	35'	35'			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	> 10 m
	What is the depth to the groundwater resource/aquifer you draw water from?	<del>450'</del> 450'	450'			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	120.4 m using WWID 1270103

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



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**NRCB USE ONLY**

**WATER WELL AND SURFACE WATER INFORMATION**

Well IDs: 1270103 180834 1270104

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:**

N/A

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**NRCB USE ONLY**  
**ENVIRONMENTAL RISK SCREENING INFORMATION**

ERST for proposed facilities [See decision summary RA24002](#)

Facility	Groundwater score	Surface water score	File number

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
Hog EMS	Low	Low	RA10046
Dairy catch basin	Low	Low	RA13013
Gilt room	Low	Low	RA03021
Dairy EMS	Low	Low	RA10046
Dairy replacement facility	Low	Low	RA13013

ERST related comments:

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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
Marvin & Donna Younger	SW-18-36-13 W4#	5200 m	Agriculture	1	5700	N/A	Yes
Bruce & Pamela Younger	SE-13-36-13 W4#	4700 m	Ag	1	4300	N/A	Yes
Shawn Freimark	NE-24-35-13 W4#	5700 m	Ag	1	4800	N/A	Yes
		all distances recorded as the crow fly's					

### 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)
Suncrest Hutterian	all of Sec 1-36-13 W4#	259	light brown	259	N/A
Suncrest Hutterian	all of Sec 2-36-13 W4#	242	light brown	242	N/A
Suncrest Hutterian	all of Sec 10-36-13 W4#	259	light brown	259	N/A
Suncrest Hutterian	all of Sec 35-35-13 W4#	259	light brown	259	N/A
Suncrest Hutterian	all of Sec 34-35-13 W4#	231	light brown	231	N/A
		Total		1,250	

\* 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): Aerial photography

Margin of error (if applicable): +/- 5 m

Requirements (m): Category 1: 655 Category 2: 874 Category 3: 1092 Category 4: 1747

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: 840 ha

Land base listed: 1250 ha

Area not suitable: N/A

Available area: 1250 ha

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 RA03021

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## SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Compacted soil liner

*(complete a copy of this section for EACH barn, feedlot, and storage facility for solid manure, composting materials, or compost with a compacted soil liner)*

Facility description / name *(as indicated on site plan)*

1. Layer Barn
2. Attached manure storage

### Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	<b>NRCB USE ONLY</b> Estimated storage capacity (m <sup>3</sup> )
1.	120.4	32.6	0	
2.	21.3	9.1	0	
TOTAL CAPACITY				9 months storage

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

inclosed all under roof

### Liner protection

Describe how the physical integrity of the liner will be maintained

clean thoroughly when depopulating Birds  
check for cracks

### 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  <i>5-6 inches</i>	Method of sulphate protection:  <i>Type 50 powder (high-sulphate resistant)</i>
Concrete strength  <i>30 MPA</i>	Concrete reinforcement size and spacing  <i>12mm 12" square spacing</i>

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:     > 10 m     Requirements met:  YES  NO

Depth to Uppermost groundwater resource:     120.4 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

A condition will be included requiring the concrete liner 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:  YES  NO If yes, please explain why.

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**NRCB USE ONLY**

**ALL SIGNATURES IN FILE**

YES  NO

**DATES OF APPROVAL OFFICER SITE VISITS**

01/29/24	

**CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES**

Date deeming letters sent: 03/14/24

Municipality: Paintearth

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:** Paintearth Gas Co-op Ltd       N/A

letter sent       response received       written/email       verbal       no comments received

**Other:** Atco Electric Ltd, Onstad Energy Corp       N/A

letter sent       response received       written/email       verbal       no comments received