

Technical Document LA23043



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)

NRCB USE ONLY	Application number	Legal land description
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	LA23043	E½ 1-5-19 W4M & NW 6-5-18 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.

Dec 5/23
Date of signing

Signature

Miami Colony Farming Co Ltd
Corporate name (if applicable)
AO Comment: Miami Hutterian Brethren

Willie 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)
26. Layer Barn	26.2 x 114 M

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 (converting to pullet barn)	15.3 x 61 M	
Dairy Barn	17.1 x 61 M	
Calf Barn	14.6 x 61 M	

NRCB USE ONLY AO Comment: Miami Hutterian Brethren has been issued NRCB Approval LA05026A and Authorizations LA03006A, LA10037, and LA13013.
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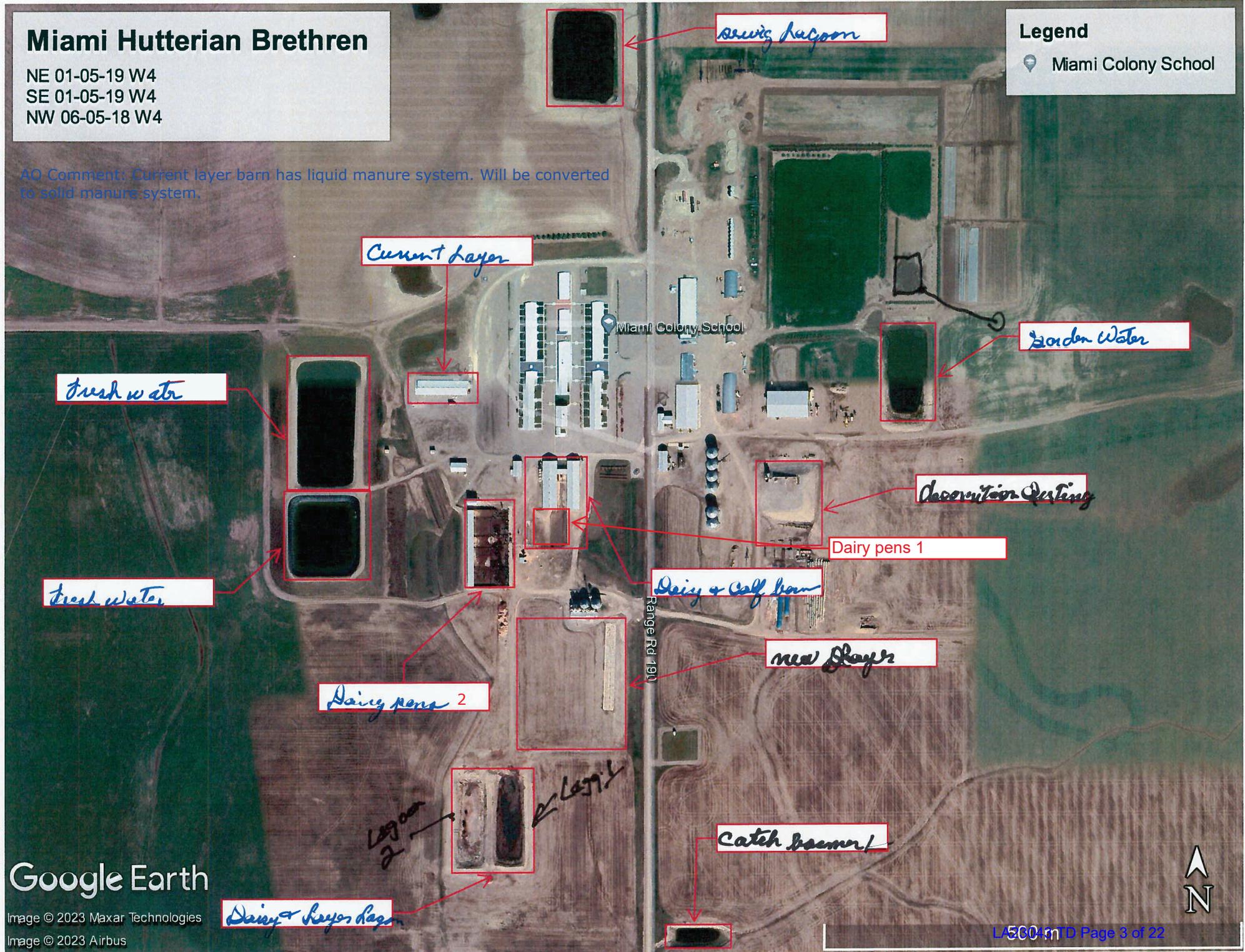
Miami Hutterian Brethren

NE 01-05-19 W4
SE 01-05-19 W4
NW 06-05-18 W4

AO Comment: Current layer barn has liquid manure system. Will be converted to solid manure system.

Legend

📍 Miami Colony School



Google Earth

Image © 2023 Maxar Technologies
Image © 2023 Airbus

Miami Hutterian Brethren

NE 01-05-19 W4
SE 01-05-19 W4
NW 06-05-18 W4

Legend

📍 Miami Colony School

372-85

(114 m x 26.2 m)

AO Comment: Location and dimensions of new layer barn.

Google Earth

Image © 2023 Airbus

Range Rd 190

LA 100 m 10 Page 4 of 22



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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

Converting into Pullet barn

AO Comment: Existing layer barn is being converted into a pullet barn. Dimensions of existing barn will not be changing.

Construction completion date for proposed facilities Dec 2026

Additional information

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
<i>Swine Farrow to finish</i>	<i>350</i>	<i>- 350</i>	<i>0</i>
<i>Milking Cows</i>	<i>80</i>	<i>+10</i>	<i>90</i>
<i>Layers</i>	<i>11000</i>	<i>+ 19,000</i>	<i>30,000</i>
<i>Pullets</i>	<i>5,500</i>	<i>+ 9500</i>	<i>15,000</i>
<i>Broilers</i>	<i>1000</i>	<i>0</i>	<i>1000</i>
AO Comment: Livestock numbers have not changed from Part 1.			

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)

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) _____

Signed this ____ day of _____, 20____.

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 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 _____

Don't need additional water

Signed this 8 day of Nov, 2023.

Signature of Applicant or Agent



Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 119618
 GoA Well Tag No.
 Drilling Company Well ID
 Date Report Received 1936/08/13

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name HUTTERIAN BRETHREN OF MIAMI		Address NEW DAYTON			Town		Province		Country		Postal Code
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	NE	1	5	19	4						
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)							
_____ m from _____				Latitude <u>49.359415</u> Longitude <u>-112.432574</u>				Elevation <u>1029.61</u> m			
_____ m from _____				How Location Obtained				How Elevation Obtained			
				Map				Survey-Air			

Drilling Information	
Method of Drilling Drilled	Type of Work Federal Well Survey
Proposed Well Use Unknown	

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	

Yield Test Summary			Measurement in Metric
Recommended Pump Rate <u>0.00</u> L/min			
Test Date	Water Removal Rate (L/min)	Static Water Level (m)	
1936/07/15		15.24	

Well Completion				Measurement in Metric
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
27.43 m			1915/01/01	
Borehole				
Diameter (cm)	From (m)	To (m)		
0.00	0.00	27.43		
Surface Casing (if applicable)		Well Casing/Liner		
Unknown				
Size OD : <u>15.24</u> cm		Size OD : <u>0.00</u> cm		
Wall Thickness : <u>0.000</u> cm		Wall Thickness : <u>0.000</u> cm		
Bottom at : <u>0.00</u> m		Top at : <u>0.00</u> m		
		Bottom at : <u>0.00</u> m		
Perforations				
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
Perforated by				
Annular Seal				
Placed from <u>0.00</u> m to <u>0.00</u> m				
Amount _____				
Other Seals				
Type		At (m)		
Screen Type				
Size OD : <u>0.00</u> cm				
From (m)	To (m)	Slot Size (cm)		
Attachment _____				
Top Fittings _____		Bottom Fittings _____		
Pack				
Type _____		Grain Size _____		
Amount _____				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name UNKNOWN DRILLER	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

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GoA Well Tag No.
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Date Report Received 1936/08/13

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GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name HUTTERIAN BRETHREN OF MIAMI	Address NEW DAYTON			Town	Province	Country	Postal Code				
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	NE	1	5	19	4						
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)							
_____ m from _____				Latitude <u>49.359415</u> Longitude <u>-112.432574</u>				Elevation <u>1029.61</u> m			
_____ m from _____				How Location Obtained				How Elevation Obtained			
				Map				Survey-Air			
Additional Information										Measurement in Metric	
Distance From Top of Casing to Ground Level _____ cm											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ L/min					Describe _____						
Recommended Pump Rate _____ 0.00 L/min					Pump Installed _____ Depth _____ m						
Recommended Pump Intake Depth (From TOC) _____ 0.00 m					Type _____ Make _____ H.P. _____						
					Model (Output Rating) _____						
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m					Well Disinfected Upon Completion _____	
Remedial Action Taken _____					Gas _____ Depth _____ m					Geophysical Log Taken _____	
										Submitted to ESRD _____	
Additional Comments on Well					Sample Collected for Potability _____					Submitted to ESRD _____	
CLEAR, SOFT WATER REPORTED											

Yield Test			Taken From Ground Level	Measurement in Metric
			Depth to water level	
Test Date 1936/07/15	Start Time 12:00 AM	Static Water Level 15.24 m		
			Pumping (m)	Elapsed Time Minutes:Sec
				Recovery (m)
Method of Water Removal				
Type _____				
Removal Rate _____ L/min				
Depth Withdrawn From _____ 0.00 m				
If water removal period was < 2 hours, explain why				

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name UNKNOWN DRILLER	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 119620
 GoA Well Tag No.
 Drilling Company Well ID
 Date Report Received

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name MIAMI COLONY		Address NEW DAYTON			Town		Province		Country		Postal Code
Location	<i>1/4 or LSD</i>	<i>SEC</i>	<i>TWP</i>	<i>RGE</i>	<i>W of MER</i>	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
	16	1	5	19	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)						
_____ m from _____					Latitude <u>49.361223</u>		Longitude <u>-112.429804</u>		Elevation <u>1036.32</u> m		
_____ m from _____					How Location Obtained					How Elevation Obtained	
					Map					Estimated	

Drilling Information	
Method of Drilling Bored Proposed Well Use Unknown	Type of Work Well Inventory

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
0.30		Brown Sandy Topsoil	
17.37		Glacial Clay & Sand	
17.68	Yes	Water Bearing Gravel	
19.81		Glacial Clay & Sand	

Yield Test Summary			Measurement in Metric
<i>Recommended Pump Rate</i> _____		<i>L/min</i>	
Test Date	Water Removal Rate (L/min)	Static Water Level (m)	

Well Completion				Measurement in Metric
<i>Total Depth Drilled</i>	<i>Finished Well Depth</i>	<i>Start Date</i>	<i>End Date</i>	
19.81 m			1967/11/29	
Borehole				
Diameter (cm)	From (m)	To (m)		
0.00	0.00	19.81		
Surface Casing (if applicable)		Well Casing/Liner		
Size OD : _____		Size OD : _____		
Wall Thickness : _____		Wall Thickness : _____		
Bottom at : _____		Top at : _____		
		Bottom at : _____		
Perforations				
		Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
From (m)	To (m)			
Perforated by _____				
Annular Seal				
Placed from _____ 0.00 m to _____ 0.00 m				
Amount _____				
Other Seals				
Type			At (m)	
Screen Type				
Size OD : _____ 0.00 cm				
From (m)		To (m)		Slot Size (cm)
Attachment _____				
Top Fittings _____		Bottom Fittings _____		
Pack				
Type _____		Grain Size _____		
Amount _____				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER Company Name WATER RESOURCES	Certification No 1 Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

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GoA Well Tag No.
Drilling Company Well ID
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GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name MIAMI COLONY		Address NEW DAYTON			Town		Province		Country		Postal Code
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	16	1	5	19	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)						
_____ m from _____					Latitude <u>49.361223</u>		Longitude <u>-112.429804</u>			Elevation <u>1036.32 m</u>	
_____ m from _____					How Location Obtained _____					How Elevation Obtained _____	
					Map _____					Estimated	

Additional Information										Measurement in Metric	
Distance From Top of Casing to Ground Level _____ cm											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ L/min					Describe _____						
Recommended Pump Rate _____ L/min					Pump Installed _____		Depth _____ m				
Recommended Pump Intake Depth (From TOC) _____ m					Type _____		Make _____		H.P. _____		
										Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____				
Remedial Action Taken _____					Gas _____		Depth _____ m		Geophysical Log Taken _____		
										Submitted to ESRD _____	
										Sample Collected for Potability _____	
										Submitted to ESRD _____	
Additional Comments on Well _____											

Yield Test			Taken From Ground Level	Measurement in Metric
Test Date _____	Start Time _____	Static Water Level _____ m		
Method of Water Removal				
Type _____				
Removal Rate _____ L/min				
Depth Withdrawn From _____ m				
If water removal period was < 2 hours, explain why _____				

Water Diverted for Drilling		
Water Source _____	Amount Taken _____ L	Diversion Date & Time _____

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name WATER RESOURCES	Copy of Well report provided to owner _____ Date approval holder signed _____

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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: Lager Barn

Proposed 1: New Lager 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	Not located within a known flood plain
	Surface water information	How many springs are within 100 m of the manure storage facility or manure collection area?	N/A	N/A		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	No springs located within 100 m of facility
	How many water wells are within 100 m of the manure storage facility or manure collection area?	N/A	N/A		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	No water wells on site, all have been decommissioned	
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	greater	then 100m		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Located greater than 4000 m from Milk River Ridge Reservoir	
Groundwater information	What is the depth to the water table?		3 1/2 m		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Water table between 0.71 m - 2.03 m below grade	
	What is the depth to the groundwater resource/aquifer you draw water from?		Greater than 10m		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	15.24 m using WWID 119618 (decommissioned)	

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

AO comment: Applicant does not obtain water from wells. All wells on site have been decommissioned.

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NRCB USE ONLY

ENVIRONMENTAL RISK SCREENING INFORMATION

Well IDs: 119620 (decommissioned) 119618 (decommissioned) _____

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

ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
New Layer Barn	Low	Low	LA23043

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
Dairy Pens	Low	Low	LA23043
EMS (Lagoon 1)	Low	Low	LA23043
EMS (Lagoon 2)	Low	Low	LA23043

Miami Colony
C/O Cal Leishman
Attention: Mr. Leishman

The subsurface soils encountered in the testholes at the building site consisted of medium plastic silty, sandy clay till. The clay till extends to a minimum depth of 7.6m.

As discussed previously in field and laboratory sections undisturbed samples were obtained from the clay till in the area of the barns. These samples were taken from depth below surface of 1.5m, 3.1m and 4.6m Hydraulic conductivity tests were conducted on the samples.

The hydraulic conductivity tests indicate that the soil in the area of the pig barns has a very low permeability. The clay soils in the area are a glacial deposit and as such do not generally contain continuous layers that would allow contaminants to flow from the site.

On February 24, 2003, groundwater levels for the building site were measured. The groundwater levels are given on the testhole logs and are summarized in the following table.

Testhole #	Depth of Water From Ground Surface (m)
03-02	0.71
03-03	1.31
03-04	2.03

Sewage Lagoon

The subsurface soils encountered in the testholes at the existing lagoon site consisted of medium plastic, silty, sandy clay till.

On February 24, 2003, the groundwater level at the lagoon site was measured. The groundwater level is given on the testhole log and is summarized in the following table.

Testhole #	Depth of Water From Ground Surface (m)
03-01	2.36

4. Water Table and Water Quality

The water flow in the area generally appears to be from north to south. The water table in the area of the pig barns appears to be elevated. This could be a result of run off from the roofs of the barns being held in the clay till.

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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
Kings Land	NW 3-5-18 W4	2 1/4 mile	AG	1	5,454	N/A	Yes
Richard Duell	NW 4-5-18 W4	1 mile	AG	1	3,396	N/A	Yes
Kron Kite	NW 13-5-19 W4	1 1/4 mile	AG	1	3,253	N/A	Yes
Duncan	NE 36-4-18 W4	1 mile	AG	1	1,678	N/A	Yes
Duncan	NE 31-4-18 W4	1 1/2 mile	AG	1	2,168	N/A	Yes

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)
AO Comment: See attached map on next page for land base for manure application provided by Miami Hutterian Brethren.					
Total				5,288 acres	

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

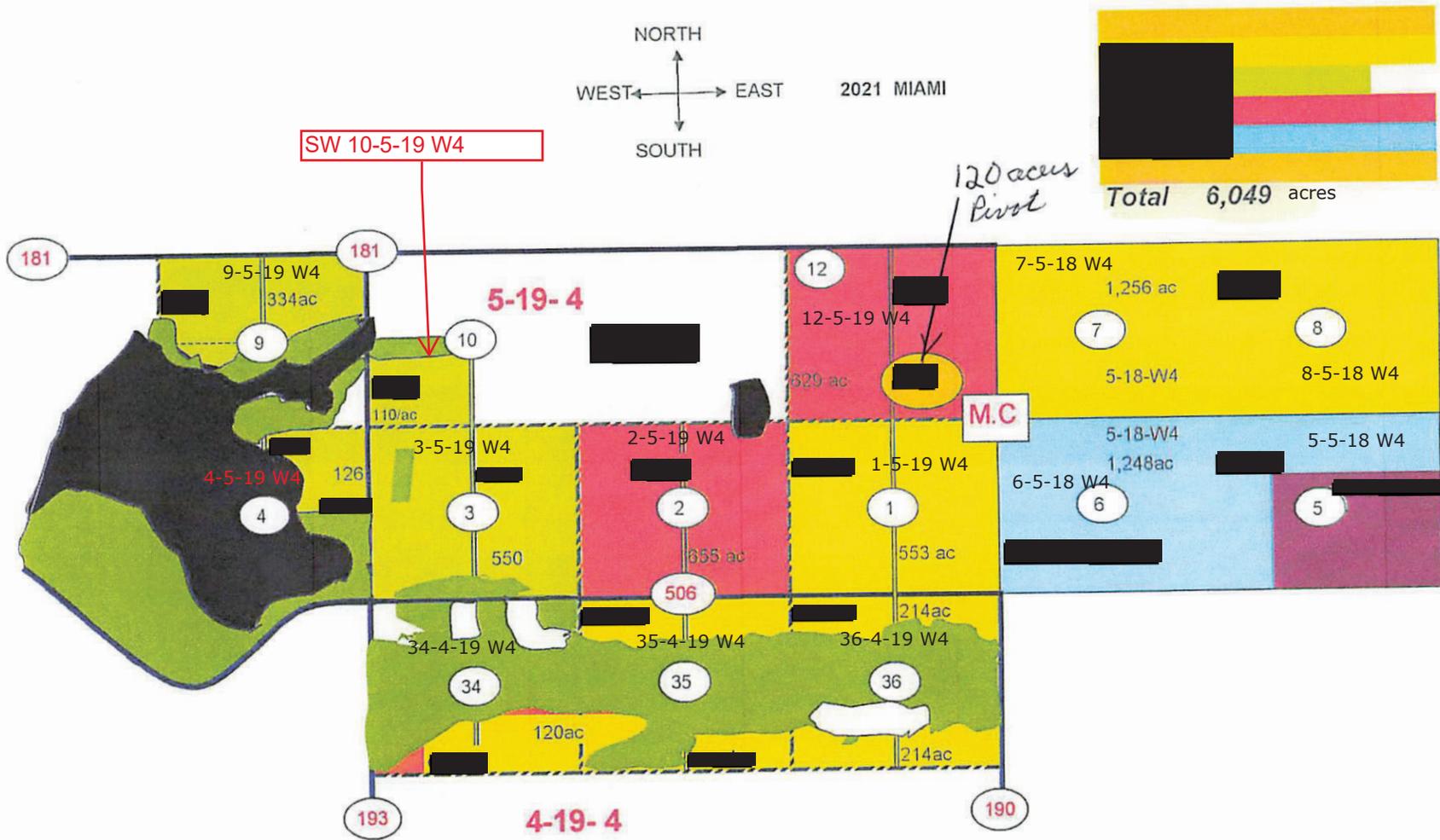
** Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 [Manure Spreading Regulations](#))

*** Brown, dark brown, black, grey wooded, or irrigated

Additional information (attach any additional information as required)

AO Comment: Areas not suitable calculated from setbacks to Milk River Ridge Reservoir and coulees.

AO Comment: All land indicated on map is owned by Miami Hutterian Brethren and is dryland (brown), with the exception of 120 acres on 12-5-19 W4 that is irrigated.



Name Hutterian Brethren of Miami
 Address
 Legal Land
 Location

MDS Spreadsheet based on 2006 AOPA Regulations

Category of Livestock	Type of Livestock	Factor A	Technology Factor	MU	LSU Factor	Number of Animals	LSU
Feedlot Animals	Beef Cows/Finishers (900+ lbs)	0.700	0.700	0.910	0.4459		-
	Beef Feeders (450 - 900 lbs)	0.700	0.700	0.500	0.2450		-
	Beef Feeder Calves (<550 lbs)	0.700	0.700	0.275	0.1348		-
	Horses - PMU	0.650	0.700	1.000	0.4550		-
	Horses - Feeders > 750 lbs	0.650	0.700	1.000	0.4550		-
	Horses - Foals < 750 lbs	0.650	0.700	0.300	0.1365		-
	Mules	0.600	0.700	1.000	0.4200		-
	Donkeys	0.600	0.700	0.670	0.2814		-
	Bison	0.600	0.700	1.000	0.4200		-
Other							
Dairy (*count lactating cows only)	Free Stall – Lactating Cows with all associated dries, heifers, and calves*	0.800	1.100	2.000	1.7600	90	158.4
	Free Stall – Lactating Cows with Dry Cows only*	0.800	1.100	1.640	1.4432		-
	Free Stall – Lactating Cows only	0.800	1.100	1.400	1.2320		-
	Tie Stall – Lactating Cows only	0.800	1.000	1.400	1.1200		-
	Loose Housing – Lactating Cows only	0.800	1.000	1.400	1.1200		-
	Dry Cow	0.800	0.700	1.000	0.5600		-
	Replacements – Bred Heifers (Breeding to Calving)	0.800	0.700	0.875	0.4900		-
	Replacements - Growing Heifers (350 lbs to breeding) Calves (< 350 lbs)	0.800	0.700	0.525	0.2940		-
Other							
Swine Liquid (*count sows only)	Farrow to finish *	2.000	1.100	1.780	3.9160		-
	Farrow to wean *	2.000	1.100	0.670	1.4740		-
	Farrow only *	2.000	1.100	0.530	1.1660		-
	Feeders/Boars	2.000	1.100	0.200	0.4400		-
	Growers/Roasters	2.000	1.100	0.118	0.2600		-
	Weaners	2.000	1.100	0.055	0.1210		-
	Other						
Swine Solid (*Count sows only)	Farrow to finish *	2.000	0.800	1.780	2.8480		-
	Farrow to wean *	2.000	0.800	0.670	1.0720		-
	Farrow only *	2.000	0.800	0.530	0.8480		-
	Feeders/Boars	2.000	0.800	0.200	0.3200		-
	Growers/Roasters	2.000	0.800	0.118	0.1888		-
	Weaners	2.000	0.800	0.055	0.0880		-
	Other						
Poultry	Chicken - Breeders - Solid	1.000	0.700	0.010	0.0070		-
	Chicken - Layers - Liquid (includes associated pullets)	2.000	1.100	0.008	0.0176		-
	Chicken - Layers - (Belt Cage)	2.000	0.700	0.008	0.0112	30,000	336.0
	Chicken - Layers - (Deep Pit)	2.000	0.700	0.008	0.0112		-
	Chicken - Pullets/Broilers	1.000	0.700	0.002	0.0014	16,000	22.4
	Turkey - Toms/Breeders	1.000	0.700	0.020	0.0140		-
	Turkey - Hens (light)	1.000	0.700	0.013	0.0091		-
	Turkey - Broilers	1.000	0.700	0.010	0.0070		-
	Ducks	1.000	0.700	0.010	0.0070		-
	Geese	1.000	0.700	0.020	0.0140		-
	Other						
Sheep and Goats	Sheep - Ewes/Rams	0.600	0.700	0.200	0.0840		-
	Sheep - Ewes with lambs	0.600	0.700	0.250	0.1050		-
	Sheep - Lambs	0.600	0.700	0.050	0.0210		-
	Sheep - Feeders	0.600	0.700	0.100	0.0420		-
	Goats - Meat/Milk (per Ewe)	0.700	0.700	0.170	0.0833		-
	Goats - Nannies/Billies	0.700	0.700	0.140	0.0686		-
	Goats - Feeders	0.700	0.700	0.077	0.0377		-
Other							
Cervid	Elk	0.600	0.700	0.600	0.2520		-
	Deer	0.600	0.700	0.200	0.0840		-
Other							
Wild Boar	Feeders	2.000	0.800	0.140	0.2240		-
	Sow (farrowing)	2.000	0.800	0.371	0.5936		-
Other							

Total 516.8

For New Operations

Dispersion Factor 1

Category	Odour Objective	Distance	
		Feet	Metres
1	41.04	1,317	401
2	54.72	1,756	535
3	68.4	2,195	669
4	109.44	3,512	1,070

For Expanding Operations

Dispersion Factor 1
 Expansion Factor 0.77

Category	Odour Objective	Distance	
		Feet	Metres
1	41.04	1,014	309
2	54.72	1,352	412
3	68.40	1,690	515
4	109.44	2,704	824

Name Hutterian Brethren of Miami
 Address 0
 Legal Land 0
 Location 0

Landbase Requirements (hectares) based on 2006 AOPA requirements

Category of Livestock	Type of Livestock	Number of Animals	Dark Brown & Brown (ha)	Grey Wooded (ha)	Black (ha)	Irrigated (ha)	
Feedlot Animals	Cows/Finishers (900+ lbs)	0.0	0.0	0.0	0.0	0.0	
	Feeders (450 - 900 lbs)	0.0	0.0	0.0	0.0	0.0	
	Feeder Calves (<550 lbs)	0.0	0.0	0.0	0.0	0.0	
	Horses - PMU	0.0	0.0	0.0	0.0	0.0	
	Horses - Feeders > 750 lbs	0.0	0.0	0.0	0.0	0.0	
	Horses - Foals < 750 lbs	0.0	0.0	0.0	0.0	0.0	
	Mules	0.0	0.0	0.0	0.0	0.0	
	Donkeys	0.0	0.0	0.0	0.0	0.0	
	Bison	0.0	0.0	0.0	0.0	0.0	
	Other	0.0					
Dairy (*count lactating cows only)	Free Stall – Lactating Cows with all associated dries, heifers, and calves*	90.0	133.7	111.3	83.5	66.8	
	Free Stall – Lactating Cows with Dry Cows only *	0.0	0.0	0.0	0.0	0.0	
	Free Stall – Lactating Cows only*	0.0	0.0	0.0	0.0	0.0	
	Tie Stall – Lactating Cows only	0.0	0.0	0.0	0.0	0.0	
	Loose Housing – Lactating Cows only	0.0	0.0	0.0	0.0	0.0	
	Dry Cow (Solid manure)	0.0	0.0	0.0	0.0	0.0	
	Dry Cow (Liquid manure)	0.0	0.0	0.0	0.0	0.0	
	Replacements – Bred Heifers (Breeding to Calving)	0.0	0.0	0.0	0.0	0.0	
	Replacements - Growing Heifers (350 lbs to breeding)	0.0	0.0	0.0	0.0	0.0	
	Calves (< 350 lbs)	0.0	0.0	0.0	0.0	0.0	
		Other	0.0				
	Swine Liquid (*count sows only)	Farrow to finish *	0.0	0.0	0.0	0.0	0.0
		Farrow to wean *	0.0	0.0	0.0	0.0	0.0
Farrow only *		0.0	0.0	0.0	0.0	0.0	
Feeders/Boars		0.0	0.0	0.0	0.0	0.0	
Growers/Roasters		0.0	0.0	0.0	0.0	0.0	
Weaners		0.0	0.0	0.0	0.0	0.0	
		Other	0.0				
Swine Solid (*Count sows only)	Farrow to finish *	0.0	0.0	0.0	0.0	0.0	
	Farrow to wean *	0.0	0.0	0.0	0.0	0.0	
	Farrow only *	0.0	0.0	0.0	0.0	0.0	
	Feeders/Boars	0.0	0.0	0.0	0.0	0.0	
	Growers/Roasters	0.0	0.0	0.0	0.0	0.0	
	Weaners	0.0	0.0	0.0	0.0	0.0	
		Other	0.0				
Poultry	Chicken - Breeders - Solid	0.0	0.0	0.0	0.0	0.0	
	Chicken - Layers - Liquid (includes associated pullets)	0.0	0.0	0.0	0.0	0.0	
	Chicken - Layers - (Belt Cage)	30000.0	165.0	138.0	102.0	84.0	
	Chicken - Layers - (Deep Pit)	0.0	0.0	0.0	0.0	0.0	
	Chicken - Pullets/Broilers	16000.0	52.0	43.4	32.5	26.1	
	Turkey - Toms/Breeders	0.0	0.0	0.0	0.0	0.0	
	Turkey - Hens (light)	0.0	0.0	0.0	0.0	0.0	
	Turkey - Broilers	0.0	0.0	0.0	0.0	0.0	
	Ducks	0.0	0.0	0.0	0.0	0.0	
	Geese	0.0	0.0	0.0	0.0	0.0	
		Other	0.0				
Goats and Sheep	Sheep - Ewes/Rams	0.0	0.0	0.0	0.0	0.0	
	Sheep - Ewes with lambs	0.0	0.0	0.0	0.0	0.0	
	Sheep - Lambs	0.0	0.0	0.0	0.0	0.0	
	Sheep - Feeders	0.0	0.0	0.0	0.0	0.0	
	Goats - Meat/Milk (per Ewe)	0.0	0.0	0.0	0.0	0.0	
	Goats - Nannies/Billies	0.0	0.0	0.0	0.0	0.0	
	Goats - Feeders	0.0	0.0	0.0	0.0	0.0	
		Other	0.0				
Cervid	Elk	0.0	0.0	0.0	0.0	0.0	
	Deer	0.0	0.0	0.0	0.0	0.0	
		Other	0.0				
Wild Boar	Feeders	0.0	0.0	0.0	0.0	0.0	
	Sow (farrowing)	0.0	0.0	0.0	0.0	0.0	
		Other	0.0				
Total Hectares			351	292.7	218.0	176.9	
Total Acres			866	723.2	538.7	437.0	

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)

NRCB USE ONLY

MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): Google Earth

Margin of error (if applicable): +/- 2 m

Requirements (m): Category 1: 401 Category 2: 535 Category 3: 669 Category 4: 1,070

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: 866 acres (dryland brown)

Land base listed: 6,049 acres (dryland brown)

Area not suitable: 761 acres (dryland brown)

Available area 5,288 acres (dryland brown) 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 LA05026

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)

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

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

Facility description / name (as indicated on site plan) **1. New Layer barn**
 2. _____

Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m ³)
1.	(114 m) 372 feet	(26.2 m) 85 feet	above grade	
2.				
TOTAL CAPACITY				

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

under Roof

Liner protection

Describe how the physical integrity of the liner will be maintained

Apply sealant Visually inspect for cracks

NRCB USE ONLY
 Requirements met: YES NO

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)

SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner (cont.)

Concrete liner details

Concrete thickness <i>8 inches</i>	Method of sulphate protection: <i>#50</i>
Concrete strength <i>28 mp</i>	Concrete reinforcement size and spacing <i>20 mm 8 in x 8 in</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: 0.71 m - 2.03 m Requirements met: YES NO

Depth to Uppermost groundwater resource: 15.24 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

N/A

Leakage detection system required: YES NO If yes, please explain why.

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)

NRCB USE ONLY

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

November 8, 2023	
December 5, 2023	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: January 5, 2024

Municipality: County of Warner No. 5

letter sent response received written/email verbal no comments received

Alberta Health Services:

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: St. Mary's River Irrigation District, Alberta Agriculture & Irrigation, Village of Warner N/A

letter sent response received written/email verbal no comments received

Other: Prairie Sky Royalty, Triple W Natural Gas Co-op Ltd., Montana Alberta Tie Ltd., Fortis Alberta Ltd., Alpha Bow Energy N/A

letter sent response received written/email verbal no comments received