

## 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>	Application number	Legal land description
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	<u>RA20041</u>	<u>NE 8-44-21 W4M</u>

### 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.

August 24, 2020

Date of signing  
Manna Farms Ltd.



Signature  
Mark Astner

Corporate name (if applicable)

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)
AO Comment: The applicant is not proposing any construction at this time. He recently completed an upgrade of the two existing hog barns (constructing concrete floors and manure collection pits), and constructing a new earthen liquid manure storage. With these upgrades the applicant is applying to increase the animal density at the existing barns.	

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Two hog barns with connecting alleyways (constructed 2005)	57 m x 21.6 m each	Verified
Two solid manure storage facilities	20 m x 20 m each	Verified
Hog barn (liquid manure)	70 m x 13 m	Verified

**NRCB USE ONLY**  
The swine CFO is permitted by two NRCB permits ( Registration RA04039 and Authorization RA20026).



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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

Construction completion date for proposed facilities AO Comment: There is no construction proposed with this application

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
Swine - Feeders	3000	1200	4200
AO Comment: Approval sized increase			

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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 24 day of August, 2020.



\_\_\_\_\_  
*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*



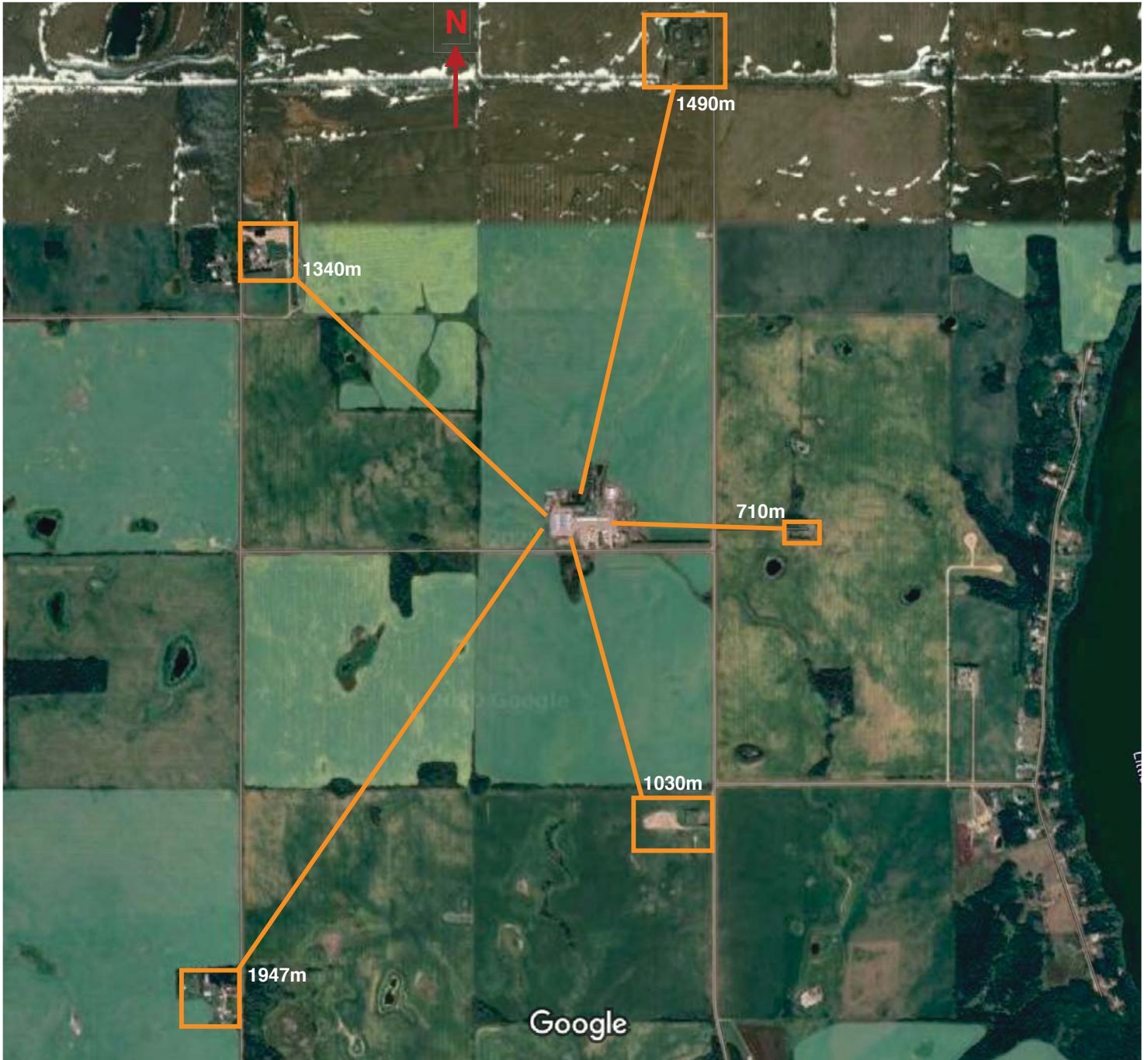
**Title:** Site Location  
 Site and Soil Assessment  
 NE¼-Sec.8-Twp.044-Rge.21-W4M  
 Camrose County, Alberta

**Project No:** 2004-42294

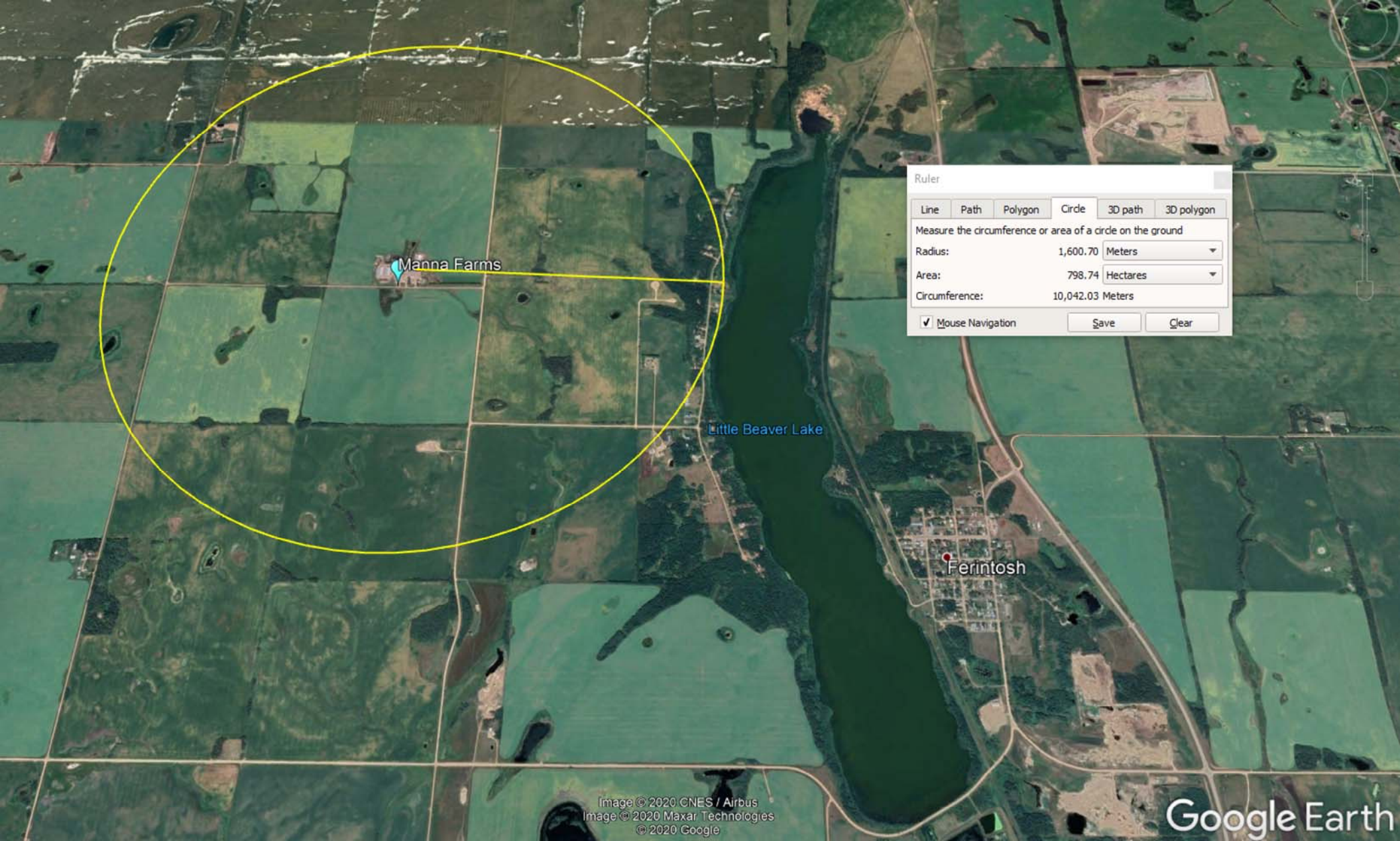
**Date:** May 19, 2020

**Prepared by:** L. Predy

**Figure No.:** 1.0  
 RA20041 Page 5 of 11  
 RA20041 TD Page 5 of 15



Imagery ©2020 CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2020 Google 200 m



Page added by the Approval Officer.

The expanding CFO is located within the 3,219 (2 miles) setback from Little Beaver Lake. This setback is stated in the Camrose County MDP Section 4.3.9. Additionally, the expanding CFO is located within the minimum distance separation (MDS) of many of Category 4 (Large-Scale Country Residential) residences located by the lake.



**Title:**  
 Detailed Site Layout Plan  
 Part II Technical Requirements  
 Mark Astner - Manna Farms Ltd.  
 NE¼-Sec.8-Twp.044-Rge.21-W4M  
 Camrose County, Alberta

**Project No:**  
 2004-42294

**Scale:**  
 1:3000

**Date:**  
 June 5, 2020

**Prepared By:**  
 L. Predy

**Figure:**  
 2.0



# Part 2 – Technical Requirements

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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: Liquid EMS

Proposed 1: \_\_\_\_\_

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 height 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 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	>1m
	Surface water information	How many springs are within 100 m of the manure storage facility or manure collection area?	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None observed during a site visit
	How many water wells are within 100 m of the manure storage facility or manure collection area?	0			<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES with exemption	There are two WWs on site. One of the WW is located within 100m of an existing barn.	
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	810 m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	There is a slough located >600m of the existing facilities	
Groundwater information	What is the depth to the water table?				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Water table measured below 9 mbs	
	What is the depth to the groundwater resource/aquifer you draw water from?	78.03 m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	UGR identified at 39.6 in WW ID# 143465	

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

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**NRCB USE ONLY**

**ENVIRONMENTAL RISK SCREENING INFORMATION**

Well IDs: 1434465, 143464, 1575655 and 143454

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
N/A			

**ERST for existing facilities**

Facility	Groundwater score	Surface water score	File number
EMS	Low (40.7)	Low	RA20026
Round EMS	Low (40.7)	Low	RA20026
Hog barns (3)	Low (38.5)	Low	RA20026

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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
Graff B. & Knudsen-Graff K.	NW-9-44-21-W4	880	Agriculture	1	646	Not required	Yes
Musselman D. & C.	NE-5-44-21-W4	1090	Agriculture	1	1,190	Not required	Yes
Astner D. & D.	NE-17-44-21-W4	1740	Agriculture	1	1,680	Not required	Yes
Graff B. & K.	SW-17-44-21-W4	1340	Agriculture	1	1,410	Not required	Yes
Hutterian Brethren of Silver Creek	NE-6-44-21-W4	1947	Agriculture	1	1,860	Not required	Yes

AO: Nearest residence by Little Beaver Lake (East of the CFO)      1,434m      LSCR (\*)      4      1,434      No      No

### 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)
See attached document		439.49	Black-Dark Grey Soil	439 on the black zone	Yes
Total				439	

\* 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: LSCR means Large-scale country residential

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## NRCB USE ONLY

### MINIMUM DISTANCE SEPARATION

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

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

Requirements (m): Category 1: 639 Category 2: 852 Category 3: 1,065 Category 4: 1,704

Technology factor:  YES  NO

Expansion factor:  YES  NO

MDS related concerns from directly affected parties or referral agencies:  YES  NO

An expansion factor can not be applied, since the most recent construction arising from an Authorization has happened less than 3 years ago (Standards and Administration Regulation, Schedule 1 Section 6(3)). The application does not meet the MDS requirement to category 4 residences located along Little Beaver Lake

### LAND BASE FOR MANURE AND COMPOST APPLICATION

Land base required: 189 hectares  
Land base listed: 439 hectares  
Area not suitable: 0  
Available area: 439 hectares

The applicant has provided more than double the required land base for manure application. Additionally, they use precision cultivation on their land.

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 Registration RA04039

Manure Spreading Lands – Mark Astner/Manna Farms

Landowners	Land Location	Acres (RTK calculated)	Soil Zone
Astner, M. & N.	NE-8-44-21-W4	132	Black-Dark Grey Soil
Manna Farms Ltd.	SE-8-44-21-W4	154	Black-Dark Grey Soil
Manna Farms Ltd.	SW-7-44-21-W4	158	Black-Dark Grey Soil
Astner, D. & D.	NE-17-44-21-W4	145	Black-Dark Grey Soil
Manna Farms Ltd.	SE-17-44-21-W4	158	Black-Dark Grey Soil
Astner, D. & M. & N.	SE-20-44-21-W4	139	Black-Dark Grey Soil
Astner, D. & D.	SW-16-44-21-W4	160	Black-Dark Grey Soil
Astner	NE-9-44-21-W4	40	Black-Dark Grey Soil
	Total Acres:	1086	

**Manure Spreading Agreement**

This agreement is between Manure Farms Ltd / Mark Astner, manure producer, and

Dan & Darlene Astner Manure receiver.

Length of agreement: This agreement is valid for a time period of 25 yrs  
(minimum of three years)

Legal land location	Soil type <sup>1</sup>	Acres suitable for manure spreading <sup>2</sup>
NE 17-44-21 W4	Black-Dark Grey	145
SW 16-44-21 W4	" " " "	160
NE 9-44-21 W4	" " " "	40

<sup>1</sup> Soil type choices: Dark brown and brown, Grey wooded, Black, Irrigated.

<sup>2</sup> Land within required setbacks from water bodies, water wells, residences, etc. is not to be included.

Other comments:

Manure producer (confined Feeding Operation) Legal Land Location NE 8-44-21 W4

Aug 31/20                                            Mark Astner                      \_\_\_\_\_  
 Date of signing                      Signature                      Print name                      Corporate name(if appl)

**Manure Receiver – Landowner(s)<sup>3</sup>**

Aug 31/2020                                            DAN ASTNER                      \_\_\_\_\_  
 Date of signing                      Signature                      Print name                      Corporate name(if appl)

Aug 31/20                                            Darlene Astner                      \_\_\_\_\_  
 Date of signing                      Signature                      Print name                      Corporate name(if appl)

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**NRCB USE ONLY**

**ALL SIGNATURES IN FILE**  YES  NO

**DATES OF APPROVAL OFFICER SITE VISITS**

June 17, 2020	
October 22, 2020	

**CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES**

Date deeming letters sent: September 8, 2020

Municipality: Camrose County

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:** Ember Resources Inc.       N/A

letter sent       response received       written/email       verbal       no comments received

**Other:** Battle River Natural Gas Coop Ltd       N/A

letter sent       response received       written/email       verbal       no comments received