## Technical Document RA24007

## Part 2 - Technical Requirements

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


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 MRCB 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 1 acknowledge that the information provided in this application is true to the best of my knowledge.

$$
5-32024
$$


 Signature hes 3 uvelmare

## GENERAL INFORMATION REQUIREMENTS

Proposed facilleles: 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)



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If a new facility il replacing an old facility, please explain what will happen to the old faclitity and when.

Construction completion date for proposed facilities:
 Additional information

Uvesteck numbers: Complete only if livestock numbers are different from what was identified in the Part 1 application. Note: if flvestock 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).


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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

## OPTPON 1: Applying through the NRCB for both the AOPA parmit and the Water Act licence

I DO want my water IIcence application coupled to my AOPA permit application.

Slgned this $\qquad$ day of $\qquad$ 20 $\qquad$ _.

## OPTON 2: Processing the AOPA permit and Wrater 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. 1 (we) request that the NRCB process the AOPA application independently of EPA's processing of the CFO's application for a water Ilcence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decislon will not be considered by EPA as improving or enhancing the CFO's eligiblity 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 $\qquad$ day of $\qquad$ 20 $\qquad$ .

## 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 detalls

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## OPTION A: Uncertain lf Water Act llcence Is nesded: acknowledgement of risk for existing CFOR only

1. At thls 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 Ilcence.
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 consldered 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 Ilvestock 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 Ilcence 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 Ilcense number(s) or water conveyance agreement detalls $\qquad$

Signed this $\qquad$ day of $\qquad$ 20 $\qquad$ .


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## GENERAL ENVIRONMENTAL INFORMATION

Existing: $\qquad$ Proposed 1:

Proposed 2: $\qquad$ Proposed 3: $\qquad$


Additional information (attach supporting Information, e.g. Borehole logs, records, atc, you consider relevant to your application)

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## NRCB USE ONLY <br> WATER WELL AND SURFACE WATER INFORMATION

Well IDs: $\qquad$ 135847 1245138
2090751
$\qquad$
$\qquad$

Surface water related concerns from directly affected parties or referral agencies:
Groundwater related concerns from directly affected parties or referral agencies:

Water wells $\quad \mathrm{N} / \mathrm{A}$
If applicable, exemption for 100 m distance requirements applied: $\square$ YES $\square$ NO Condition required: $\square$ YES $\square$ NO
Surface water $\boxtimes$ N/A
If applicable, exemption for 30 m distance requirements applied: $\square$ YES $\square$ NO Condition required: $\square$ YES $\square$ NO

Water Well Exemption Screening Tool $\triangle \mathrm{N} / \mathrm{A}$

| Water Well ID | Preliminary Screening <br> Score | Secondary Screening <br> Score | Facility |
| :--- | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
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|  |  |  |  |

## Groundwater or surface water related comments:

N/A

## Part 2 - Technical Requirements

## NRCB USE ONLY <br> ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for proposed facilities
See decision summary RA24007

| Facility | Groundwater score | Surface water score | File number |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
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ERST for existing facilities

| Facility | Groundwater score | Surface water score | File number |
| :--- | :--- | :--- | :--- |
| West EMS | moderate * | low | RA17019 |
| East EMS | moderate * | low | RA17019 |
| Finisher barn 1 | low | low | RA17019 |
| Finisher barn 2 | low | low | RA17019 |
| Farrow/nursery barn | low | low | RA17019 |
| Breeding barn | low | low | RA17019 |
| Dry sow barn | low | low | RA17019 |
|  |  |  |  |

## ERST related comments:

* The NRCB's compliance and enforcement division are actively working with Broekman Hog Farms to better understand and address the moderate risk to groundwater posed by both EMS facilities. Because of this, I will not be further addressing the risks that these facilities pose to the environment in this decision.

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Appllicition under the Agricuturd Operotion Practices Act for a comfined foeding operation, manure collection area, and/or manure porage fecpinviles!
DISTANCE OF ANY MANURE STORAGE FACILITY (EXISTING OR PROPOSED) TO NEIGHBOURUNG RESIDENCES

| Melighbour name(s) | Legal land doecription | Olstance ( m ) |  | $\begin{gathered} \text { MDS } \\ \text { category } \\ (1-4) \end{gathered}$ | Distance <br> (m) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lavesn + Susanne Didyk | $562-36-33-2704$ | 1600 N | Agricultur | e 1 | 1,751 |  | Yes |
| Patricien stumpf | 5 s - 30-33-27w4 | 16000 M | Ag | 1 | 1,648 |  | Yes |
| Hound schafer | Nw-24-33-27w4 | 1200 M | Ag | 1 | 1,195 |  | Yes |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

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

| Name of land owner(x)* | Logad land description | $\begin{aligned} & \text { Usuble arese:* } \\ & \text { (ha) } \end{aligned}$ | Soll zone ${ }^{\text {as\% }}$ | Usablo arese (ha) | $\begin{aligned} & \text { Agreement } \\ & \text { oftached } \\ & \text { (f required) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| N/A for authoriz | applications |  |  |  |  |
|  |  |  |  |  |  |
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MINIMUM DISTANCE SEPARATIONMethods used to determine distance (if applicable):Aerial photography
Margin of error (if applicable): $\quad+/-5 \mathrm{~m}$
Requirements $(\mathrm{m}):$ Category 1: $561 \quad$ Category 2: $748 \quad$ Category 3: 935 Category 4: 1496
Technology factor:
Expansion factor:
$\square$ YES $\boxtimes$ NO

## LAND BASE FOR MANURE AND COMPOST APPLICATION

Land base required:
Land base listed: $\square$ N/A for authorization applications
Area not suitable:
Available area $\qquad$ Requirement met:YESNO
Land spreading agreements required:YESNO
Manure management plan:NO If yes, plan is attached:

## PLANS



LIQUID MANURE COLLECTION AND/OR STORAGE: In-barn - Concrete liner
(complete a copy of this section for EACH proposed in-bam liquid manure storage facility with a concrete liner)
Facility description / name (as indicated on site plan)

3. $\qquad$
Manure storage capacity (use one row in the table for EACH in-born storage. Attach additional pages if you require more rows)

|  | Length (m) | Width (m) | Total depth (m) | Depth below ground <br> level $(\mathrm{m})$ | MRCB USE ONLY <br> Calculated storage capacity $\left(\mathrm{m}^{3}\right)$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | 3540 m. | $25,0 \mathrm{~m}$ | 1 m | $0,5 \mathrm{~m}$ |  |
| 2. | 24 m | $1,8 \mathrm{~m}$ | 0 | 0 |  |
| 3. |  |  |  |  |  |



LIQUID MANURE COLLECTION AND/OR STORAGE: In-barn - Concrete liner (cont.)

| Describe how the joints at the junction of the pit walls, pit floors and any other joints will be sealedWatostop + caulking |  |  |
| :---: | :---: | :---: |
| Describe sealing practices for piping, etc. that penetrates the liner Waterstop + caclking |  |  |
| Concrete requirtmente can be found In Technlcal Guldeline Agdex 096-53 Guideline mindinums: <br> Solid menure: 25MP9 (D) <br> Solld manure (wet): SOMPI (C) <br> Uquid manure: 32MP0 (1) <br> Category A is regulred to De engineered <br> Method of suiphata protection: <br> Type ss or Type 10 whth hy ash or equivalent | NRCB USE ONLY <br> Requirements met: <br> Condition required: | $\square$ yes no X yes $\square$ No |



## Concrete liner requirements

Leakage detection system required:
$\square$ YeS $X$ NO If yes, please explain why
A condition will be included requiring the concrete liner to meet the specifications for category B (liquid manure shallow pits) and category C (solid manure - wet) in Technical Guideline Agdex 096-93 "Non-Engineered Concrete Liners for Manure Collection and Storage Areas".

[^3]| $\left\lvert\,$NRCB USE ONLY <br> ALL SIGNATURES IN FILE <br> DATES OF APPROVAL OFFICER SITE VISITS <br> $3 / 5 / 2024$ <br>   <br>  \right. |
| :--- |


| Date deeming letters sent： | 3／11／2024 |  |  | $\square$ no comments received |
| :---: | :---: | :---: | :---: | :---: |
| Municipality： | Kneehill County |  |  |  |
| （1）letter sent | 【 response received | \ written／email | $\square$ verbal |  |
| Alberta Health Services：N／A |  |  |  |  |
| $\square$ letter sent | $\square$ response received | $\square$ written／email | $\square$ verbal | $\square$ no comments received |

Alberta Environment and Parks：$\quad \square$ N／A
区 letter sent
－response received
x written／email
$\square$ verbal
$\square$ no comments received

Alberta Transportation：
（ N／A
$\square$ letter sentresponse receivedwritten／email
$\square$
verbalno comments received
Alberta Regulatory Services：$\quad \mathrm{N} / \mathrm{A}$letter sentresponse received
written／emailverbalno comments received

|  | Ember Resources Inc．，Crossroads Gas Co－op Ltd． |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Other： |  |  |  |  |
| 凹 letter sent | $\square$ response received | $\square$ written／email | $\square$ verbal | $\square$ no comments received |
| other： |  |  |  |  |
| $\square$ letter sent | $\square$ response received | $\square$ written／email | $\square$ verbal |  |


[^0]:    Last updated September 11, 2023

[^1]:    Last updated September 11, 2023

[^2]:    - If you sre not the registered landowner, you must attech coplas of linnd use agreements signed by at tandowners.
    ** Available manure spreading ares (excluding setback areas from residences, common bodies of water, water wells, etc. as identifled in Agdex 0s6-S Manure Soneading Atenlapons)
    *" Brown, dark brown, blsck, grey wooded, or iwrigated
    Adational information (atisch any adalitional Information as required)

[^3]:    Last updated February 26, 2021

