

Technical Document RA24003A



Application for Amendment

Application under the *Agricultural Operation Practices Act* to amend a permit for a confined feeding operation, manure collection area and/or manure storage facility(ies). ("Permit" means an NRCB-issued or grandfathered approval, registration, or authorization, including a grandfathered municipal development permit.)

NRCB USE ONLY <input type="checkbox"/> Approval <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Authorization AMENDMENT	NRCB Application number RA24003A	Date Stamp NRCB APPLICATION 08 JAN 2025 RECEIVED
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CONTACT INFORMATION

Applicant Information		
Name: Bart Boom	Corporate Name (if applicable) Boom Holsteins LTD.	
Address: (Street/P.O. Box) RR 380		
City/Town: OLDS	Province: AB	Postal Code: T4H 4B6
Agent consent (if applicable)		
I, _____, hereby give consent for _____ (name of applicant) (name of agent and company)		
to act on my behalf or as my agent for this application.		
Signed this ____ day of _____, 20____.		_____ Signature of Applicant

LOCATION OF DEVELOPMENT

Which permit do you wish to amend? (List permit number and issuing agency.)	RA 24003
Legal Land Description(s)	SE 13-32-28 W4 (Qtr-Sec-Twp-Rg-W Mer)

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

7/1/2025
Date of signing

Boom Holsteins LTD.
Corporate name (if applicable)


Signature

Bart Boom
Print name

Application for Amendment – contd.



AMENDMENT INFORMATION REQUIREMENTS

Instructions:

For each part of your permit that you would like amended, please detail what change you would like made and why, and how your proposed change will meet the AOPA requirements. You may attach additional pages to this form to provide this information.

Please note that an approval officer may require a page (or pages) of the Part 2 application forms to be completed as part of this application for amendment, depending on what changes are proposed.

In stead of building a complete new building for the sand recovery we would like to change that by making it indoors in our existing dairy barn.

this way it will be all stored indoors, and save on building cost.



"Old" dairy barn

New dairy barn

Original sand recovery storage

Range Rd 230



Imagery ©2025 Airbus, Maxar Technologies, Map data ©2025 20 m

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. Sand recovery storage
2. ~~Liquid manure pit.~~

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.	60	4,25	0	
2.	6	8	2,40	
Liquid manure pit (see page 7)			TOTAL CAPACITY	Adequate 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

manure/sand storage is indoor, floors are sloped towards manure pit inside the building.

Liner protection

Describe how the physical integrity of the liner will be maintained

concrete liner according to nrcb requirements.

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 <u>8 inches</u>	Method of sulphate protection: <u>Type 50 or Type 10 with fly ash</u>
Concrete strength <u>30 MPa</u>	Concrete reinforcement size and spacing <u>10 mm every 12 inch on centre</u>

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: 7.9 m Requirements met: YES NO

Depth to Uppermost groundwater resource: 21.0 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 added requiring the liner to meet the specification for category C (solid manure - wet) 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.

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)

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. liquid collection pit _____
2. _____
3. _____

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 ³)
1.	6	7.2	3.3	3	
2.					
3.					
TOTAL CAPACITY					142.6 m³

Concrete liner details

Scrape alleys or unslatted portions of barn floors (if applicable)	Concrete thickness		Method of sulphate protection		
	Concrete strength		Concrete reinforcement size and spacing		
In-barn manure pit floors	Concrete thickness 8 inch		Method of sulphate protection Type 50 or Type 10 with fly ash or equivalent		
	Concrete strength 32mpa		Concrete reinforcement size and spacing 15mm 10 inch on centre		
In-barn manure pit walls	Concrete thickness 8 inch		Method of sulphate protection Type 50 or Type 10 with fly ash or equivalent		
	Concrete strength 32 mpa	Horizontal reinforcement size and spacing 15mm 10 inch on centre	Vertical reinforcement size and spacing 15mm 10 inch on centre		

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)

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 sealed
 there will be a rubber liner/ strip be poored into the floor and in to the walls to prevent from leaking
 caulking/waterstop

Describe sealing practices for piping, etc. that penetrates the liner
 there will be no holes in the pit walls for piping. all pipes will be entering from the top of the pit.

Concrete requirements can be found in Technical Guideline Agdex 096-93
Guideline minimums:
 Solid manure: 25MPa (D)
 Solid manure (wet): 30MPa (C)
 Liquid manure: 32MPa (B)
 Category A is required to be engineered
 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

Additional information

NRCB USE ONLY

Liquid manure storage volume calculator attached: YES NO

Depth to water table: 7.9 m

Requirements met: YES NO

Depth to uppermost groundwater resource: 21.0 m

Requirements met: YES NO

ERST completed: see ERST page for details

Concrete liner requirements

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

A condition will be added requiring the liner to meet the specification for category B (liquid manure - shallow pits) in Technical Guideline Agdex 096-93 "Non-Engineered Concrete Liners for Manure Collection and Storage Areas"

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
ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
Sand recovery storage (inside old dairy barn)	Presumed to be low, see DS RA24003A		
Liquid manure pit (inside old dairy barn)	Presumed to be low, see DS RA24003A		

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
See DS RA24003			

ERST related comments:

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
WATER WELL AND SURFACE WATER INFORMATION

Well IDs: 1035008 1245129

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
1035008	continue to next section	exemption more likely	Sand recovery storage with associated manure pit
1245129	continue to next section	exemption more likely	Sand recovery storage with associated manure pit

Groundwater or surface water related comments:

N/A