

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 la	and description
☐ Approval ☒ Registration ☐	Authorization	LA24039	SW 9-2	<u>10-13 W4M</u>
Amendment				
PPLICATION DISCLOSURE				
his information is collected under the rovisions of the <i>Freedom of Informati</i> ritten request that certain sections re	on and Protection of			
ny construction prior to obtaining rosecution.	an NRCB permit is	an offence and is subject t	o enforcement	action, including
the applicant, or applicant's agent, h rovided in this application is true to th			d I acknowledge	that the information
February 14, 202.	5			
February 14, 2023		Signature'		
QUINTUS DAIRY	LTD	Philip 1/2	n Steek	elenburg
orporate name (if applicable)	0.5	Print name	11 3,000	0.0.1,501,19
ENERAL INFORMATION REQUESTION PROPOSED IN TRANSPORTED TO THE PROPOSED TO THE P		eration facilities and their dime	ensions. Indicate	whether any of the
proposed facilities are additions to ex			maioris. Tridicate	whether any or the
Proposed facilities				mensions (m)
			(length	, width, and depth)
Dairy Prom Fx	tension		198 x	87 FJ
July LA	IUISIUI		110 X	80-1-1.
	****			
Existing facilities: list ALL existing	confined feeding ope	ration facilities and their dimer	nsions	
Existing facilities		Dimensio		NRCB USE ONLY
		(length, width	, and depth)	
Existing Barn		132 x 6	0 ft.	
Ship san				
	1	,1		
	Dairy ba	rn: U-shape		
NRCB USE ONLY		27		
	16x46m	$rn: U-shape + 27 \times 21 m +$		
	27 + 19n			
			Alle Carrier Land Co.	
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		NPCR LISE ONLY		

## Existing facilities

Pen area 1 with shelter: 43 m x 45 m

Pen north of pen area 1: 20 m x 26 m

Pen area 2 (triangular shape):  $61 \text{ m} \times 73 \text{ m} \times 91 \text{ m} + 73 \text{ m} \times 212 \text{ m}$ 

Pen north of pen area 2: 19 m x 41 m

EMS:  $49 \, \text{m} \times 34 \, \text{m} \times 3.6 \, \text{m}$  deep plus an extension on the south side:  $29 \, \text{m} \times 21 \, \text{m} \times 3.6 \, \text{m}$ 





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If a new facility is replacing an old facility, please explain what will happen to the old facility and who					
II a new lacility is replacing an old facility, please explain what will happen to the old facility and who	Té a many facility	ie venlacina an eld	incility plance evals	مة محمدهما الثيب فحطيب سث	. Also ald facility and when
	TI a liew lacility	is replacing an olu	acility, picase expla	ili wilat will happen tt	, the old facility and when,

MN/A

Construction completion date for proposed facilities	December 2027	
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
Proposed increase			
Dairy COWS (plus driest			
73> 102			
Sheep will remain at			
130 (ewes w. lambs)			

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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: . I DO wa	Applying through the ant my water licence a	ne NRCB for both the AOPA permit application coupled to my AOPA permi	and the Water Act licence t application.
Signed this _	day of	, 20	Signature of Applicant or Agent
OPTION 3.	D	A	
		A permit and Water Act licence se CFO will need a new water licence from	<b>parately</b> m AEP under the <i>Water Act</i> for the development or activity
propose	ed in this AOPA applica	ation.	
2. I (we) r water li		process the AOPA application <b>indepe</b>	endently of AEP's processing of the CFO's application for a
			ion is granted by the NRCB, the NRCB's decision will not be or a water licence under the <i>Water Act</i> .
			e CFO with livestock pursuant to an AOPA permit in the eration of whether to grant the Water Act licence application
applicat	ion is denied or if the	operation of the CFO is otherwise dee	ting will be at the CFO's sole risk if the Water Act licence emed to be in violation of the Water Act. This risk includes truction, or to remove "works" or "undertakings" (as defined
	Vater Act).		
Bow, O		katchewan River Basin Water Allocatio	South Saskatchewan River Basin and that, pursuant to the n Order [Alta. Reg. 171/2007], this basin is currently closed
Cianad thia	day of	20	
Signed this _	day of	, 20	Signature of Applicant or Agent
Signed this d	day of Henru	ary , 20 <u>25</u> .	Signature of Applicant or Agent
OPTION 4:	Uncertain if Water	Act licence is needed; acknowledg	ement of risk (for existing CFOs only)
	time, I (we) do not kr proposed in this AOP.		eded from AEP under the Water Act for the development or
2. If a nev	Water Act licence is		process the AOPA application <b>independently of</b> AEP's
3. İn maki	ng this request, I (we	e) recognize that, if this AOPA applicat	ion is granted by the NRCB, the NRCB's decision will not be or a water licence under the <i>Water Act</i> .
4. I (we) a	cknowledge that any	construction or actions to populate th	e CFO with additional livestock pursuant to an AOPA permit consideration of whether to grant my Water Act licence
	ion, if a new water lic		,
applicat being re	ion is denied or if the	operation of the CFO is otherwise dea	e will be at the CFO's sole risk if the Water Act licence emed to be in violation of the Water Act. This risk includes truction, or to remove "works" or "undertakings" (as defined
Bow, O		katchewan River Basin Water Allocatio	South Saskatchewan River Basin and that, pursuant to the <i>in Order</i> [Alta. Reg. 171/2007], this basin is currently closed
Signed this _	day or	, 20	Signature of Applicant or Agent
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Proposed 3:

Existing: Proposed 2:

NRCB USE ONLY	Comments						
	Meets requirements	☐ YES ☐ NO ☐ YES with exemption	☐ YES ☐ NO ☐ YES with exemption	☐ YES ☐ NO ☐ YES with exemption	☐ YES ☐ NO ☐ YES with exemption	☐ YES ☐ NO ☐ YES with exemption	☐ YES ☐ NO ☐ YES with exemption
	Proposed 3	□					
ities	Proposed 2						
Facilities	Proposed 1	X ∪ ×1 m × 1 m	None	20m 20m.	20 m.		17.68m. 17.68m
	Existing	X ∨ 1 m × 1 m	None	20m	m 051		17.68m
Facility and environmental risk	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?	How many springs are within 100 m of the manure storage facility or manure collection area?	How many water wells are within 100 m of the manure storage facility or manure collection area?	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	What is the depth to the water table?	What is the depth to the groundwater resource/aquifer you draw water from?
Facilit		Flood plain noitsmroini		rface wat		l .	Ground mrofni

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

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# **Water Well Drilling Report**

<u>View in Imperial</u> <u>Export to Excel</u>

GIC Well ID GoA Well Tag No.

183331

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.

Drilling Company Well ID Date Report Received 1985/04/24

Well Iden	tification and L	ocation									Measurement in Metr
Owner Nar VAN STAK	me (ALENBURG, PI	HILIP	Address GEN DEL,	MILLICENT		Town			Province	Country	Postal Code T0J 2H0
Location	1/4 or LSD SW	SEC 9	<i>TWP</i> 20	RGE 13	W of MER 4	Lot	Block	Plan	Additio	nal Description	
Measured	from Boundary o	of			GPS Coordii	nates in Dec	imal Degre	es (NAD 83	)		
		m from			Latitude 5	0.677494	Longi	tude111.	752889	Elevation	m
		m from			How Location	n Obtained				How Elevation Obta	ined
					Not Verified					Not Obtained	

Drilling Information		
<b>Method of Drilling</b> Rotary	Type of Work New Well	
Proposed Well Use Domestic & Stock		and the second s

	Uniestic & Stock	`	
F	ormation Log		Measurement in Metric
	epth from round level (m)	Water Bearing	Lithology Description
	1.83		Brown Clay & Coal
	14.63		Brown Sandy Clay
	15.85		Light Brown Clay
	17.68		Brown Clay
	17.98	Yes	Water Bearing Gravel
	22.86		Blue Sandy Clay
Г	24.99		See Comments
	26.52		Blue Clay
	32.61		Shale
	33.22		Brown Sandy Shale
	39.93		Blue Shale
	42.06		Gray Sandy Shale
	60.35		Blue Gray Shale
Г	62.79		Gray Sandy Shale & Sandstone
	69.19		Gray Shale
	74.37	Yes	Water Bearing Sandstone
	78.64		Brown Shale
	79.55	Yes	Gray Water Bearing Sandstone
Г	81.99	Yes	Water Bearing Shale & Sandstone Ledges
	97.54		Blue Gray Shale
	22.86 24.99 26.52 32.61 33.22 39.93 42.06 60.35 62.79 69.19 74.37 78.64 79.55 81.99	Yes	Blue Sandy Clay See Comments Blue Clay Shale Brown Sandy Shale Blue Shale Gray Sandy Shale Blue Gray Shale Gray Shale Gray Shale Gray Shale Gray Shale Gray Shale Water Bearing Sandstone Brown Shale Gray Water Bearing Sandstone Water Bearing Shale & Sandstone Water Bearing Shale & Sandstone

		Measurement in N
Recommended Pump Rate	68.19 L/min	
Test Date Water Removal Ra	te (L/min)	Static Water Level (m)
1985/04/16 68.19		4.57
Well Completion		Measurement in N
Total Depth Drilled Finished Well De 97.54 m	epth Start Date 1985/04/09	End Date 1985/04/16
Borehole		
	rom (m)	To (m)
0.00 Surface Casing (if applicable)	0.00  Well Casing/L Steel	97.54 Liner
Size OD : 0.00 cm	Size (	DD : 14.12 cm
Wall Thickness: 0.000 cm	Wall Thickne	ss: 0.478 cm
Bottom at : 0.00 m		at : 0.00 m
	Bottom	at: 82.60 m
Perforations		
From (m) To (m) Diameter of Slot Width		
70.10 74.07 0.000		0.00
79.25 82.60 0.000		0.00
Perforated by Unknown  Annular Seal Driven		
Placed from 0.00 m to	67.06 m	
Amount		
Other Seals		
Other Seals		At (m)
Other Seals		At (m)
Other Seals		At (m)
Other Seals Type		At (m)
Other Seals  Type  Screen Type		At (m)  Slot Size (cm)
Type   Screen Type   Size OD :   0.00 cm   From (m)	To (m)	
Type	To (m)	Slot Size (cm)
Type   Screen Type   Size OD :   0.00 cm   From (m)	To (m)	

Contractor	Certification
------------	---------------

Name of Journeyman responsible for drilling/construction of well

**UNKNOWN NA DRILLER** 

Company Name M&M DRILLING CO. LTD. Certification No

0.00

**Amount** 



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# DISTANCE OF ANY MANURE STORAGE FACILITY (EXISTING OR PROPOSED) TO NEIGHBOURING RESIDENCES

Neighbour name(s)							
	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Shepards ANW	\$NW 9-20-13	800m.					
_							

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

				NRCB USE ONLY	E ONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
			Total		

\* 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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Last updated: 31 Mar 2020	37 (21)	
Last updated: 31 Mar 2020	理劃	
Last updated: 31 Mar 2020	730	
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Last updated: 31 Mar 2020	332	
Last updated: 31 Mar 2020	NA.	
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LIQUID MANURE COLLECTION AND/OR S	STORAGE: In-barn - Concrete liner
(complete a copy of this section for <b>EACH</b> proposed in-ba	arn liquid manure storage facility with a concrete liner)
	<u> </u>

(complete a copy of this	s section for <b>EACH</b> prop	posed in-bar	n liquid ma	nure :	storage facility with	a concrete liner)
Facility description /	name (as indicated on	site plan)	1	Dai	ry Barn	Extension
			2. 1	rar	sfer Pit	
			3			
Manure storage capa	city (use one row in the	e table for <b>E</b> .	ACH in-bai			nal pages if you require more rows)  NRCB USE ONLY
Length (m)	Width (m)	Total dep	oth (m)	De	pth below ground level (m)	Calculated storage capacity (m³)
1. 198ft	80 ft.					
2. 11 ft	12 ft.	10.	ft		10ft.	
3.						
					TOTAL CAPACIT	Y
Concrete liner details						
	Concrete thickness				Method of sulpha	te protection
Scrape alleys or unslatted portions of	6-8	3 inch			Type 50	
barn floors (if applicable)	Concrete strength				Concrete reinforc	ement size and spacing
аррисавіе)	32 mpa				10 mm 16 inch groc	
	Concrete thickness				Method of sulpha	te protection
In-barn manure pit	6-8 inch				Type 50	
floors	Concrete strength				Concrete reinforcement size and spacing	
	32 mpa				10mm 16 inch 0e	
	Concrete thickness				Method of sulphate protection	
In-barn manure pit						
walls	Concrete strength		Horizontal and spacin		orcement size	Vertical reinforcement size and spacing

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IQUID MANURE COLLECTION AND/OR STO			(cont.)
Describe how the joints at the junction of the pit walls, pit fl	floors and a	ny other joints will be sealed	
Water stops and Sill	ka fl	lex	
Describe sealing practices for piping, etc. that penetrates th	ne liner		
Same as above			
Concrete requirements can be found in Technical Guideline Agdex 096-5	.93 NR(	CB USE ONLY	
Guideline minimums: Solid manure (wet): 30MPa (C)		Requirements met:	T YES T NO
Liquid manure: 32MPa (B) Category A is required to be engineered		Condition required:	
Method of sulphate protection: Type 50 or Type 10 with fly ash or equivalent		Condition required	123 2 110
dditional information	= JEVAN		
NRCB USE ONLY			
Liquid manure storage volume calculator attached: $\square$ YES	□ NO		
Depth to water table:		Requirements met:	☐ YES ☐ NO
Depth to uppermost groundwater resource:		Requirements met:	YES NO
ERST completed:  see ERST page for details			
Concrete liner requirements			
Leakage detection system required:	S D NO	If yes, please explain why	
Learnage detection system required.	.5 L NO	ii yes, picase explain why	
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