Technical Document RA24005

Part 2 — Technical Requirements



	LY		Application number	Legal land description
X Approval	☐ Registration	Authorization	RA24005 SI	E 21-41-24 W4M
Amendmer		Additionzacion		
	N DISCLOSUR	Œ		
rovisions of the		ation and Protection	gricultural Operation Practices Act (AOPA), of Privacy Act. This information is public un	
ny construction.	on prior to obtaini	ng an NRCB permi	t is an offence and is subject to enforce	ement action, including
		, have read and undo the best of my know	erstand the statements above, and I acknowledge.	wledge that the information
March 22 202	4			
ate of signing			Signature	
Wilpshaar Da	iry Ltd		Herco & Kirstin Wilpsha	aar
orporate name	(if applicable)		Print name	
ENERAL INF	ORMATION REC	UIREMENTS		
			operation facilities and their dimensions. In	ndicate whether any of the
Proposed facilit		existing racilities. (a	ttach additional pages if needed)	Dimensions (m)
r roposeu raci	ittles			length, width, and depth)
Expanding Fi	ree stall Barn			88.1 m x 32 m
New Lagoon	Referred to	as a synthetically I	ined liquid manure storage	60 m x 60 m x 4.5 m
		a confined feeding of	Salar Andrews and the contract of the contract	
Existing facili	ties: list ALL existin	ig commed recaing c	operation facilities and their dimensions	
Existing facili Existing facili	Decree Street	ig commed reeding c	Dimensions (m) (length, width, and dep	NRCB USE ONLY
Existing facili	Decree Street	ig commed recoming to	Dimensions (m)	
- 11.1 21	ties	ig commed recoming to	Dimensions (m) (length, width, and dep	oth)
Existing facili	ties	ig commed recoming to	Dimensions (m) (length, width, and dep 67 m x 30.5 m	Checked
Existing facilion Heifer barn Dry cow shed	ties I	ng commed recoming to	Dimensions (m) (length, width, and dep 67 m x 30.5 m 29.75 m x 16 m	Checked Checked



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

Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Synthetic lined liquid manure storage	60 m x 60 m x 4.5 m	Checked
Milking parlor	67 m x 29 m	Checked
Liquid manure pit	3.1 m x 3.1 m x 2.5 m	Checked

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N/A		_	
onstruction completion date for proposed facilit	November 2025		
dditional information			
		_	
		<u> </u>	
		<u> </u>	
		_	
		de la companya de la	
Livestock numbers: Complete only if livestock numbles increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	pers are different from what a new Part 1 application r Permitted number	Proposed increase or decrease in number	application. Note: result in a loss of Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number	result in a loss of
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
vestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
vestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
vestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
livestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	a new Part 1 application r	Proposed increase or decrease in number (if applicable)	Total

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Application under the Agricultural Cperation 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

	d thisda	y of	, 20	
				Signature of Applicant or Agent
OPT1	ON 2: Proc	essing the AOF	PA permit and Water Ac	licence separately
			CFO will need a new water osed in this AOPA applicati	licence from EPA under the Water Act for the on.
		t that the NRCB tion for a water		tion independently of EPA's processing of the
3. I	n making thi IRCB's decisi	s request, I (we) recognize that, if this AC onsidered by EPA as impro	PA application is granted by the NRCB, the ving or enhancing the CFO's eligibility for a
Α	OPA permit	In the absence o		populate the CFO with livestock pursuant to a not be relevant to EPA's consideration of
5. I t	(we) acknown he Water Actional of the contraction o	vledge that any s t licence applicat ne <i>Water Act</i> . Th	such construction or livest tion is denied or if the open his risk includes being requ	ock populating will be at the CFO's sole risk if ration of the CFO is otherwise deemed to be in ired to depopulate the CFO and/or to cease ings" (as defined in the Water Act).
6. A	nd that, pur	I T: I (we) ackno suant to the <i>Bow</i>	wledge that the CFO is loc v, Oldman and South Sask asin is currently closed to	ated in the South Saskatchewan River Basin atchewan River Basin Water Allocation Order new surface water allocations.
[7-(1()-(1()
7. P	Provide: Wa	ter licence applic	cation number(s) <u>0040352</u>	5-00-00
7. F		ter licence applic	cation number(s) <u>0040352</u> , ₂₀ 24	Signature of Applicant or Agent
7. P Signe	Provide: Wa	ter licence applic by of March		
7. F Signe	Provide: Wadding the decision of the decision	ter licence application of March tional water lice that the CFO was or activity proposed	cence not required vill not need a new licence osed in this AOPA applicati	Signature of Applicant or Agent from EPA under the Water Act for the
7. F Signe OPTI 1. I d 2. F	Provide: Wadding this 22 day day declared (we) declared development Provide: Wa	ter licence application of March tional water lice that the CFO was or activity proportion of the license number license numb	cence not required vill not need a new licence osed in this AOPA applicati	from EPA under the Water Act for the

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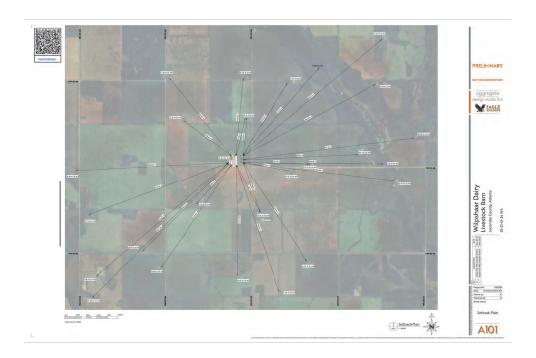


Application under the Agricultural Cperation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

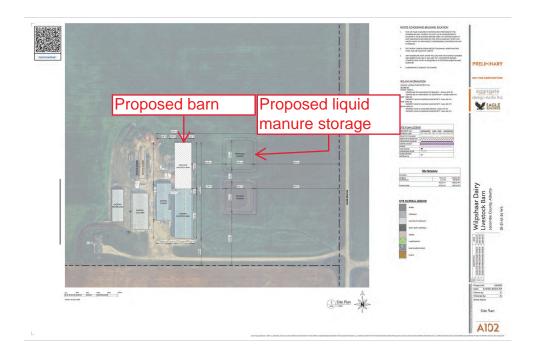
OPTION 4: Uncertain if Water Act licence is needed; acknowledgement of risk (for existing CFOs only)

- 1. At this time, I (we) do not know whether a new water licence is needed from 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 licence.
- 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 additional livestock pursuant to an AOPA permit in the absence of a Water Act licence will <u>not</u> be relevant to EPA'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).
- 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 license numb	per(s) or water conveyance a	greement details
Signed this	day of	. 20	
			Signature of Applicant or Agent



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ENERA	2 — Technical Requinder the Agricultural Operation Practices Act for a LENVIRONMENTAL INFORM. This section for the worst case of the exist scription / name (as indicated on site	confined feeding op ATION Sting facility which	eration, manure coll	to water bodies o	r water wells an	d for each of the pro	NRCB Natural Resources Conservation Board posed facilities) Illy lined liquid manure storage
xisting: ropose	7.7			Propose	d 1: Lagoon	#2 (Synthetica	
		1	Faci	lities	4.5		NRCB USE ONLY
Facili	ty and environmental risk information	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?	□ >1 m ■ ≤ 1 m	□ >1 m ■ ≤ 1 m	□ >1 m □ ≤1 m	□ > 1 m □ ≤ 1 m	YES NO NO YES with exemption	> 1 m above flood plain
<u>ت</u> د	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0	0		YES NO YES with exemption	None observed during a si visit
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	0	0	0		YES NO YES with exemption	One WW located within 100 m of an existing heifer barn Exemption was granted in 2
as =	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	2249 m	2249 m	2249 m		YES NO YES with exemption	500 m to a slough south of the CFO
	What is the depth to the water	More than	More than	More than 4m		YES NO YES with exemption	Water table found at 4.5 n below grade
Groundwater	table?						

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ansion of free stall barn Low Low RA24005 v liquid manure storage Low Low RA24005 for existing facilities Facility Groundwater score Surface water score File number lees stall barn Low Low RA18018 eifer barn Low Low RA18018 /// A18018 // A18018	ansion of free stall barn Low Low RA24005 v liquid manure storage Low Low RA24005 for existing facilities Facility Groundwater score Surface water score File number lees stall barn Low Low RA18018 eifer barn Low Low RA18018 /// A18018 // A18018	ansion of free stall barn Low Low RA24005 viliquid manure storage Low Low RA24005 for existing facilities Facility Groundwater score Surface water score File number eee stall barn Low Low RA18018 eifer barn Low Low RA18018 rithetic lined liquid manure storage Low Low RA18018	ansion of free stall barn Low Low RA2400 v liquid manure storage Low Low RA2400 for existing facilities Facility Groundwater score Surface water score File ee stall barn Low Low RA180 eifer barn Low Low RA180 vinthetic lined liquid manure storage Low Low RA180	or <u>proposed</u> facilities Facility	Groundwater score	Surface water score	File number
T for existing facilities Facility Groundwater score Surface water score File number Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	T for existing facilities Facility Groundwater score Face stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low RA18018	T for existing facilities Facility Groundwater score Surface water score File number Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	T for existing facilities Facility Groundwater score Surface water score File Free stall barn Low Low RA180 Heifer barn Low Low RA180 Synthetic lined liquid manure storage Low Low RA180				
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Facility Groundwater score Surface water score File number Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Facility Groundwater score Surface water score File number Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Facility Groundwater score Surface water score File number Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Facility Groundwater score Surface water score File Free stall barn Low Low RA180 Heifer barn Low Low RA180 Synthetic lined liquid manure storage Low Low RA180	/ liquid manure storage	Low	Low	RA24005
Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Facility Groundwater score Surface water score File Free stall barn Low Low RA180 Heifer barn Low Low RA180 Synthetic lined liquid manure storage Low Low RA180				
Facility Groundwater score Surface water score File number Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Facility Groundwater score Surface water score File number Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Facility Groundwater score Surface water score File number Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Facility Groundwater score Surface water score File Free stall barn Low Low RA180 Heifer barn Low Low RA180 Synthetic lined liquid manure storage Low Low RA180				
Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Free stall barn Low Low RA18018 Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Free stall barn Low Low RA180 Heifer barn Low Low RA180 Synthetic lined liquid manure storage Low Low RA180	or <u>existing</u> facilities	-		
Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Heifer barn Low Low RA18018 Synthetic lined liquid manure storage Low Low RA18018	Heifer barn Low Low RA180 Synthetic lined liquid manure storage Low Low RA180	Facility	Groundwater score	Surface water score	File number
Synthetic lined liquid manure storage Low Low RA18018	Synthetic lined liquid manure storage Low Low RA18018	Synthetic lined liquid manure storage Low Low RA18018	Synthetic lined liquid manure storage Low Low RA180	ee stall barn	Low	Low	RA18018
				ifer barn	Low	Low	RA18018
ST related comments:	ST related comments:	ST related comments:	2ST related comments:	nthetic lined liquid manure s	torage Low	Low	RA18018
ST related comments:	2ST related comments:	ST related comments:	SST related comments:				
ST related comments:	ST related comments:	ST related comments:	ST related comments:				
ST related comments:	ST related comments:	ST related comments:	ST related comments:				
ST related comments:	ST related comments:	ST related comments:	ST related comments:				
ST related comments:	ST related comments:	ST related comments:	ST related comments:				
or related comments.	ST related comments.	ST related comments.	ST related comments.	calated comments:			
				elated comments.			



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 INFORMATI	ON	
Well IDs:1590128 and 2089	9093		
Surface water related concerns from di	irectly affected parties or ref	erral agencies:	♥ YES □ NO
Groundwater related concerns from dir	rectly affected parties or refe	erral agencies:	✓ YES □ NO
Water wells √ N/A			
If applicable, exemption for 100 m dist Surface water N/A	tance requirements applied:	☐ YES ☐ NO Condition	required: YES NO
If applicable, exemption for 30 m dista	ince requirements applied:	☐ YES ☐ NO Condition	required: YES NO
			·
Water Well Exemption Screening T	ool 🗸 N/A		
Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility
		33333	
Groundwater or surface water rela	tod comments:		
oroundwater or surface water rela	ted comments.		

~	
NRCB	Natural Resources Conservation Board

${\bf Part~2-Technical~Requirements}$

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

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

					NRCB USE ONL	Y	
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Wilpshaar Dairy Ltd	09-21-41-24-W4	690 m					
Sam Catellier	14-15-41-24-W4	870 m	Agriculture	1	851 m		Yes
Law	05-15-41-24-W4	993 m	Agriculture	1	985 m		Yes
Russel Wildeman	11-16-41-24-W4	983 m	Agriculture	1	966 m		Yes
Nobody, empty house	12-21-41-24-W4	1106 m	Agriculture	1	1,070 m		Yes

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

				NRCB US	E ONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
Wilpshaar Dairy Ltd	SW / NE / SE21-41-24-W4	128	Black		
Van Sevenhoven	NE20-41-24-W4	64	Black		Yes
Wilpshaar Dairy Ltd	SW25-41-24-W4	64	Black		
Van Sevenhoven	NW / NE / SE15-41-24-W4	192	Black		Yes
Van Sevenhoven	NW / SW14-41-24-W4	128	Black		Yes
			Total	576 hectares	

If you are not the registered landowner, you must attach copies of land use agreements sign.	gned by all landowners
--	------------------------

** Available manure spreading area	(excluding setback areas	from residences, commo	on bodies of water,	water wells, e	etc. as identified in Age	dex 096-5 Manure Spreading
Regulations)					The second second second second	

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

Additional information (attach any additional information as required)

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NRCB USE ONLY	
MINIMUM DISTANCE SEPARATION	
Methods used to determine distance (if applicable):G	Google Earth
Margin of error (if applicable):	
Requirements (m): Category 1:487 Category	gory 2:650 Category 3:812 Category 4:1,300
Technology factor:	☐ YES 🗘 NO
Expansion factor:	☐ YES 📈 NO
MDS related concerns from directly affected parties or re	referral agencies: YES VO
LAND BASE FOR MANURE AND COMPOST Land base required:464 hectares Land base listed:576 hectares Area not suitable:Applicant provided extra la Available area576 hectares Land spreading agreements required:	and for manure application Requirement met: YES NO NO
PLANS	
Submitted and attached construction plans:	YES NO
Submitted aerial photos:	ZYES NO
Submitted photos:	YES VNO
GRANDFATHERING	
Already completed:	YES 🗆 NO 🜠 N/A
If already completed, see	



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 APPROV	AL OFFICER SITE V	ISITS				
April 16, 2018			No	vember 8, 2022	2	
April 3, 2019			Ja	nuary 31, 2024		
June 3, 2019			Jur	ne 14, 2024		
CORRECTONIDENCE	T MALTIL BALIBULOLDAL	ITIEC AN	UD DEEEDD	AL ACENIOLE	•	
	E WITH MUNICIPAL	IIIES AN	ND REFERRA	AL AGENCIES	5	
Date deemina letters sent						
Municipality:	Lacombe County	_/		_	_	
letter sent	response received	writter writter	n/email	☐ verbal		no comments received
Alberta Health Service	es: N/A					
☐ letter sent	response received	☐ writter	n/email	☐ verbal		no comments received
Alberta Environment a	nd Parks:					
✓ letter sent	response received	☐ writter	n/email	☐ verbal		no comments received
Alberta Transportation	: √N/A					
☐ letter sent	response received	☐ writter	n/email	☐ verbal		no comments received
Alberta Regulatory Ser	vices:					
letter sent	response received	☐ writter	n/email	☐ verbal	\square	no comments received
Other:Chain	Lakes Gas Co-op			□] n/a	
letter sent	response received			_	□⁄	no comments received
					•	
Other:				\	I/A	
☐ letter sent	☐ response received	☐ writter	n/email	☐ verbal		no comments received

	Manure Spreading Agreement	
This agreement is between	Dilpshaar Dair	manure producer, and
Van Sevenhoue	Tarms Manure receive	er er
(minimum of three years)	ment is valid for a time period of _	3 years
Legal land location	Soil type ¹	
	Soil type	Acres suitable for manure
NE20-41-24-Wy	61 -11	spreading ²
NW NE SE/5-41-24-WY	Dlack	64
SW 14-41-24-04		192
	Black	64
NW4-41-24-W4	Black	64
NW 14-41-24 W4M (Corrected by ap	plicant on June 14, 2024)	
10.00		
¹ Soil type choices: Dark brown and brown	n, Grey wooded, Black, Irrigated.	
² Land within required setbacks from water	r bodies, water wells, residences, etc. is no	t to be included.
Other comments:		
Manure producer (confined Feeding	ng Operation) Legal Land Location_	SE 21-41-24-W4
The state of the s		1 1 1 2
Jarch 15 2024	Hermannus	Wilpshaar Daire
Data of signing Signature	Drint name	Cornorate name(if annl)

March 15 2024

Date of signing

Manure Receiver - Landowner(s)³

Manure Receiver - Landowner(s)³

March 15 2024

Date of signing

Signature

Print name

Gorporate name(if appl)

Date of signing

Signature

Print name

Corporate name(if appl)

Date of signing

Signature

Print name

Corporate name(if appl)



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

Conc	rete liner	POST, & COMPOST			
	ete a copy of this section rete liner)	n for EACH barn, feedlot	, and stor	rage facility for solid manure, co	omposting materials, or compost w
acilit	y description / name	(as indicated on site plan	1.	Expantion freestall barn	
-			2.		
anur	e storage capacity				
	Length (m)	Width (m)		Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m ³
<u>(</u>	88m	32m		0	
2.					
				TOTAL CAPACITY	
rfac escr	e water control syste ibe the run-on and rund	out in the NRCB <u>Short-T</u>		art of my manure storage and l Manure Storage Requirements	
ı rfac Descr	e water control syste ibe the run-on and rund	out in the NRCB <u>Short-1</u> ms iff control system			
pescr Berms	e water control syste ibe the run-on and runc S AO comment: Barn v	out in the NRCB Short-Toms off control system with walls and roof	erm Solid	Manure Storage Requirements	
ner p	e water control syste ibe the run-on and runc S AO comment: Barn v	out in the NRCB <u>Short-1</u> ms iff control system	erm Solid	Manure Storage Requirements	
urfac Descr Berms	e water control syste ibe the run-on and runc S AO comment: Barn v protection ibe how the physical interpretation	out in the NRCB Short-Toms off control system with walls and roof	erm Solid	Manure Storage Requirements	
urfac Descr Berms	e water control syste ibe the run-on and runc S AO comment: Barn v protection ibe how the physical interpretation	out in the NRCB Short-Toms off control system with walls and roof	erm Solid	Manure Storage Requirements ed NRCB USE ONLY	



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 thickness		Method of su	Iphate protection:				
Type 50							
11114							
Concrete strength		Concrete rein	nforcement size and spacing				
30 mpa		10mm 12" C)/C B/W				
Concrete requirements can Guideline minimums: Solid manure: 25MPa (D). Solid manure (wet): 30MPa (C Method of sulphate protection: Type 50 or Type 10 with fly as	:) : th or equivalent	eline Agdex 096-93	Requirements met: Condition required: Report attached:	✓ YES □ NO □ YES □ NO			
dditional information (a	ttach as required)						
NRCB USE ONLY							
Nine month manure storag	ge volume requirements m	et 🛛 YES	YES With STMS NO				
Depth to water table:	> 4 m	Re	quirements met:] NO			
Depth to Uppermost groun	dwater resource: 8.5	s m Re	quirements met:] NO			
ERST completed: 🗸 see E	2.1						
		ents:					
		ents:					
Surface water control sy Requirements met: YES Concrete liner details		ents:					
Requirements met: YES Concrete liner details A condition will be inc	S NO Details/comm	quiring the permit h	older to provide written proof that te Liners for Manure Collection				
Requirements met: YES Concrete liner details A condition will be inc	S NO Details/comm	equiring the permit h Engineered Concre	te Liners for Manure Collection				
Concrete liner details A condition will be inconcrete liner meets to	S NO Details/comm	equiring the permit h Engineered Concre	te Liners for Manure Collection				
Concrete liner details A condition will be inconcrete liner meets to	S NO Details/comm	equiring the permit h Engineered Concre	te Liners for Manure Collection				



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

	plete a copy	of this sec	tion for EA	Synthetic liner				hetic liner) r lined liquid manure	e storage)
aciii	ity descrip	tion / nan	ne (<i>as indic</i>	cated on site plan)					
					2.				
	ure storage re more rov		(use one re	ow in the table for EA	CH cell of	the synthe	etic lined stor	age, attach additiona	l pages if you
			- PAY		Slope ru		rise	NRCB US	E ONLY
	Length (m)	Width (m)	Total depth (m)	Depth below ground level (m)	Inside end walls	Inside side walls	Outside walls	Calculated storage capacity (excl. 0.5 m freeboard) (m³)	Filled in lowe 1/4? Y/N
1.	60m	60m	4.5m	2.5m	3:1	3:1	4:1	8,292	Yes
2.									
						TOTA	AL CAPACITY		
eali	ing cribe sealin	g practices	for piping,	etc. that penetrates t	the liner		_		
Des	ing cribe sealing ased in Co				the liner		_		
Des	cribe sealing				the liner		NRCB USE O		ES 🗆 NO
in ca	ased in Co	ncrete in t	oottom 1/4				Req	DNLY uirements met: 🔽 Y	ES 🗆 NO
n ca	ased in Co	ncrete in t	oottom 1/4				Req		ES 🗆 NO
n ca	ased in Co	ncrete in b	als, botton		e protecte	d from ero	Req		ES 🔲 NO
n ca	ased in Co	ncrete in b	als, botton	n and outside walls ar	e protecte	d from ero	Req		ES 🗆 NO
iner Desc	ased in Co	ncrete in b	als, botton	n and outside walls ar	e protecte	od from ero	Req	uirements met: 🗸 Y	ES NO



Application under the Agricultural Cperation Practices Act for a confined feeding operation, manure collection area and/or manure storage facility(ies)

Could HDDE Book from London		
60mil HDPE liner from Layfield		
dditional information (attach copies of des.	ian/angineering reports)	
adicional information (attach copies of des.	ign/engineering reports) NRCB USE ONLY Requirements	met: VES NO
<u></u>	Condition requi	
	Report attached	d: YES \(\text{NO} \)
	+	
NRCB USE ONLY		
NRCB USE ONLY Liquid manure storage volume calculator atta	ched: TVES TINO	
> 1 m		✓ YES □ NO
Depth to water table:	8.5 m Requirements met:	
Depth to uppermost groundwater resource:_	8.5 m Requirements met:	YES NO
Surface water control systems		
Surface water control systems Requirements met: YES NO	De:ails/comments:	
	De:ails/comments:	
Requirements met: VES NO	De:ails/comments: ☐ YES NO	explain why.
Requirements met: YES NO Synthetic liner requirements		explain why.
Requirements met: YES NO Synthetic liner requirements	☐ YES ☑ NO If yes, please of the second sec)
Requirements met:	☐ YES ☑ NO If yes, please e)
Requirements met:	☐ YES ☑ NO If yes, please engineer: ☐ YES ☑ NO VES ☐ NO VES ☐ NO OVAI requiring that: with the manufacturer's requirements, and)



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

NRCB USE ONLY			
LIQUID MANUR	E STORAGE VOLUME CALCULATO	OR (if applic	able)
Facility 1			
Name / description	Liquid manure storage # 1	Capacity	8,292 m ³
Facility 2			
Name / description	Liquid manure storage # 2	Capacity	8,292 m ³
Facility 3			
Name / description	Manure collection pit	Capacity	24 m ³
Facility 4		·	
Name / description		Capacity	
	тотл	AL CAPACITY	16,608 m ³
	REQUIRED 9 MONTH STORAG	GE CAPACITY	13,500 m ³
MEETS THE REQU	JIREMENTS FOR A MINIMUM OF 9 MONT	HS STORAGE	☑YES □ NO



HIGH DENSITY POLYETHYLENE (HDPE)

High Density Polyethylene (HDPE) is a versatile material that is used widely across many applications. One of the primary uses of HDPE is as a liner at the base of landfills, where its chemical resistance is put to use. HDPE applications also include pond linings and water containment projects.

	April 2023		High D	ensity Polyet	thylene (HDP	E), Black		
	Style	ASTM	HDPE 40 Smooth	HDPE 60 Smooth	HDPE 80 Smooth	HDPE 40 Textured	HDPE 60 Textured	HDPE 80 Textured
	Nominal Thickness	D5199	40 mil 1.0 mm	60 mil 1.5 mm	80 mil 2.0 mm	38 mil 0.96 mm	57 mil 1.45 mm	76 mil 1.90 mm
	Asperity Height	D7466				16 mil 0.4 mm	16 mil 0.4 mm	16 mil 0.4 mm
ies	Density	D792	≥ 0.94 mg/l	≥ 0.94 mg/l	≥ 0.94 mg/l	≥ 0.94 mg/l	≥ 0.94 mg/l	≥ 0.94 mg/l
Typical Properties		D6693 Yield Strength	84 ppi 15 kN/m	126 ppi 22 kN/m	168 ppi 29 kN/m	84 ppi 15 kN/m	126 ppi 22 kN/m	168 ppi 29 kN/m
ypi		Break Strength	152 ppi 27 kN/m	228 ppi 40 kN/m	304 ppi 53 kN/m	60 ppi 10 kN/m	90 ppi 16 kN/m	120 ppi 21 kN/m
	Tensile Strength Type IV Die	Yield Elongation 33 mm Gauge Length	12%	12%	12%	12%	12%	12%
		Break Elongation 50 mm Gauge Length	700%	700%	700%	100%	100%	100%
	Tear Resistance	D1004	28 lbs 125 N	42 lbs 187 N	56 lbs 249 N	28 lbs 125 N	42 lbs 187 N	56 lbs 249 N

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For up-to-date technical information, be sure to visit us online at www.LayfieldGroup.com



HIELD



HIGH DENSITY POLYETHYLENE (HDPE)

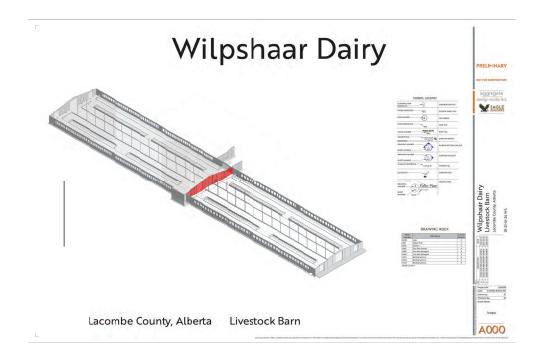
Stress Cracking	D5397	500 Hours	500 Hours	500 Hours	500 Hours	500 Hours	500 Hours
Puncture Resistance	D4833	72 lbs 320 N	108 bs 480 N	144 lbs 640 N	60 lbs 267 N	90 lbs 400 N	120 lbs 534 N
Carbon Black Content	D6370	2.0-3.0 %	2.0-3.0 %	2.0-3.0 %	2.0-3.0 %	2.0-3.0 %	2.0-3.0 %
Carbon Black Dispersion	D5596	Cat 1 or 2	Cat 1 or 2	Cat 1 or 2	Cat 1 or 2	Cat 1 or 2	Cat 1 or 2
HPOIT	D5885	400 mins	400 mins	400 mins	400 mins	400 mins	400 mins
Oven aging at 85° C HPOIT - % retained after 90 days	D5721 D5885	80%	80%	80%	80%	80%	80%
UV Resistance High Pressure OIT (min. ave.)-% retained after 90 days	D7238 D5885	50%	50%	50%	50%	50%	50%
Maximum Continuous use Temperature ¹		60°C	60°C	60°C	60°C	60°C	60°C

¹ Please contact Layfield Technical Services for more information

April 2023	HDPE Minimum Field Seam Strengths						
Style	ASTM	HDPE 40	HDPE 60	HDPE 80	HDPE 40	HDPE 60	HDPE 80
	D6392	Smooth	Smooth	Smooth	Textured	Textured	Textured
Bonded Seam Strength	25 mm	80 ppi	120 ppi	160 ppi	120 ppi	120 ppi	160 ppi
Test Temp 23°C, 73°F	(1") Strip	14 N/mm	21 N/mm	28 N/mm	21 N/mm	21 N/mm	28 N/mm
Peel Adhesion Strength	25 mm	52 ppi	78 ppi	104 ppi	78 ppi	78 ppi	104 ppi
(Extrusion Welds)	(1") Strip	9 N/mm	14 N/mm	18 N/mm	14 N/mm	14 N/mm	18 N/mm

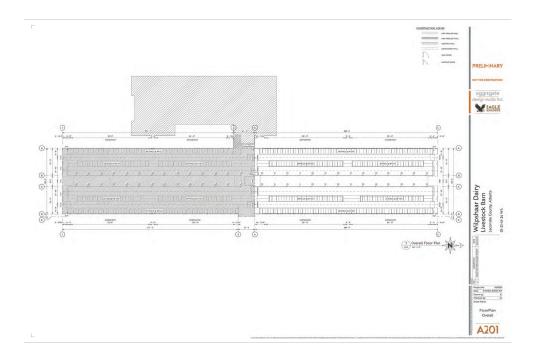
For up-to-date technical information, be sure to visit us online at www.LayfieldGroup.com





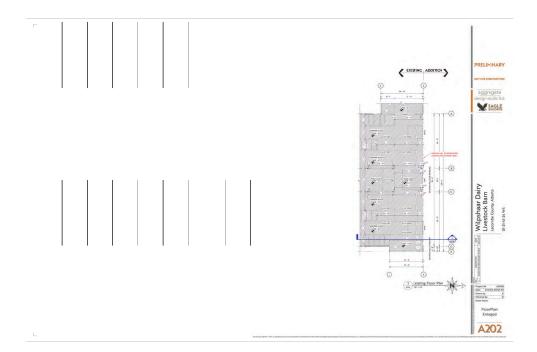
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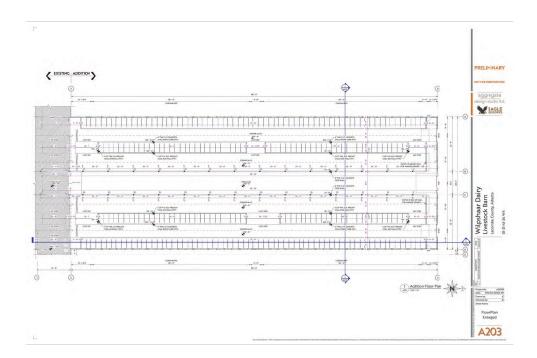
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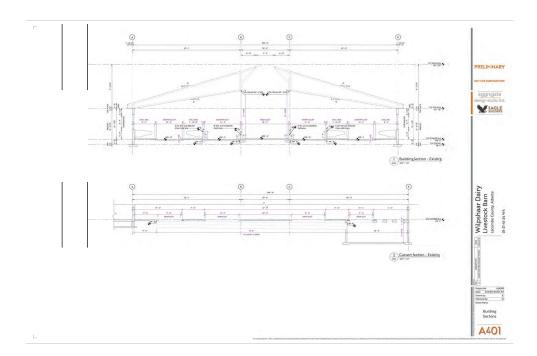
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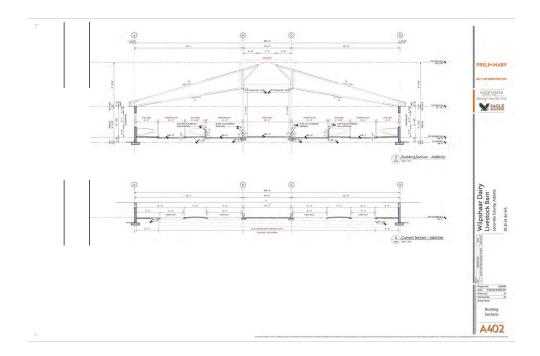
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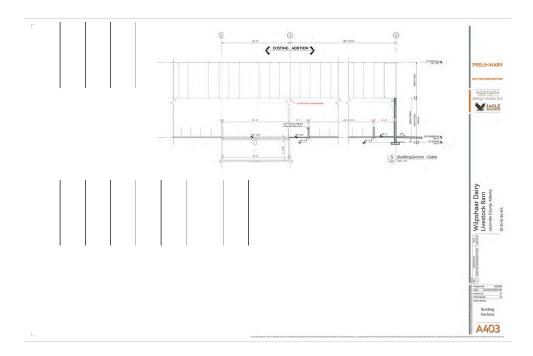
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Governmen

LICENCE AMENDMENT

PURSUANT TO THE PROVISIONS
OF THE WATER ACT

	<u>—</u>	OF THE WATER ACT
Washington Co.		
LICENCE No.	00403525-00-00	
FILE No.	00403525	
PRIORITY No.	2017-10-26-002	
AMENDMENT No.	00403525-00-01	
LICENSEE:	Wilpshaar Dairy Ltd.	
The Licence is amended as	s follows:	
Designated Director under Todd Aasen, P.Eng. Red Deer North Saskatche		
November 20, 2018 Dated		