Technical Document LA24048

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		Application number	Legal	land description
☐ Approval ☐ Registration ☐ Amendment	Authorization _	LA24048	NE 26	6-9-21 W4M
APPLICATION DISCLOSURE			W. Handa Street	
This information is collected under the provisions of the <i>Freedom of Informati</i> written request that certain sections re	authority of the Agr on and Protection o			
Any construction prior to obtaining prosecution.	an NRCB permit	is an offence and is subject to	enforcement	action, including
i, the applicant, or applicant's agent, horovided in this application is true to the			I acknowledge	e that the information
Nov 20, 2024 Date of signing		9		
Craft Quality Pou	ultry Lto		Erkele	Simon John Erke
Corporate name (if applicable)	/	Print name		
GENERAL INFORMATION REQU	IREMENTS	, ¥		
Proposed facilities: list all proposed proposed facilities are additions to ex				
Proposed facilities			(lengt	Dimensions (m) h, width, and depth)
Renovate curren	+ Quonse	+ to house quan	1 50%	er barn 15.2 m x 27.4 m
Renovato current	Chicken Co	pop to house layers	1-1	30 m x 9.1 m
Manuce	ad W/or	ny wall (125m	7 -3	m x 7-3m
Existing facilities: list ALL existing	confined feeding op	eration facilities and their dimens	sions	
Existing facilities		Dimension (length, width,	• •	NRCB USE ONLY
	\mathbb{N} / \mathbb{A}			100
· ·	- 11/5-1			
	_			
NRCB USE ONLY				
Application for a new CFO. E	xisting building	s are not currently used for	or livestock	but are proposed
to be used to confine quail la	yers and chicke	en layers. The buildings b	oth have co	oncrete floors. Core
samples will be taken, and if new concrete will be poured.	tney do not me	et the concrete requireme	ents specific	ed in the conditions,
To the solution of the pour out.				THE REAL PROPERTY.

Last updated September 11, 2023



f a new facility is replacing an old facility, pleas	e explain what will hap	pen to the old facility and w	hen. 🔯 N/A
NA CONTRACTOR OF THE PARTY OF T			
10000			
		· · · · · · · · · · · · · · · · · · ·	
onstruction completion date for proposed facili	ties July 15	.2025	
dditional information			9
aditional information			
	. 4	~	
	/ *		
		*	
Livestock numbers: Complete only if livestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type	bers are different from who	at was identified in the Part 1 aloust be submitted which may re	oplication. Note: if esult in a loss of
(Available in the Schedule 2 of the Part 2 Matters Regulation)	Permitted number	decrease in number (if applicable)	Total
Application for a new CFO with 20,000 q	uail layers and 300	chicken layers	
	.1		
· · · · · · · · · · · · · · · · · · ·			



Application under the Agricultural Operation 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

-	Date and sign one of the following four options
<u>OP</u>	I DO want my water licence application coupled to my AOPA permit and the Water Act licence
Sig	ned thisday of, 20
<u>OP</u>	TION 2: Processing the AOPA permit and Water 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.	I (we) request that the NRCB process the AOPA application independently of EPA'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 EPA as improving or enhancing the CFO's eligibility for a water licence under the <i>Water Act</i> .
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 <i>Water Act</i> licence will not be relevant to EPA's consideration of whether to grant the <i>Water Act</i> licence application.
5.	I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the <i>Water Act</i> licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the <i>Water Act</i> . 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 <i>Water Act</i>).
	AS RELEVANT: I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the <i>Bow, Oldman and South Saskatchewan River Basin Water Allocation Order</i> [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7.	Provide: Water licence application number(s)
Sig	ned this day of, 20 Signature of Applicant or Agent
<u>OP</u>	TION 3: Additional water licence not required
	I (we) declare that the CFO will not need a new licence from EPA under the <i>Water Act</i> for the development or activity proposed in this AOPA application.
2.	development or activity proposed in this AOPA application. Provide: Water license number(s) or water conveyance agreement details SMRTD-5acres permanent of the best of the water of the w
	ned this 20 day of November, 2024. Signature of Applicant or Agent

Google Maps



Imagery ©2024 Airbus, Maxar Technologies, S. Alberta MD€31s and Counties, Map data ©2024 20 m

Range 21 Twp 9 Section 26 PT of NE W4

Proposed quail facility w/manure pad

See addendum A for map of Surrounding properties + distances to neighboring residences



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

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

- 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.
- 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 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 **not** 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).

			E.	
			104	
Signed this day of	, 20	*		
		Si	gnature of Applicant or	Agent



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

GENERAL ENVIRONMENTAL INFORMATION

(complete this section for the worst case of the existing facility which is the closest to v	water bodies or water wells and for each of the proposed facilities)	
Facility description / name (as indicated on site plan)		20,000
Existing:	Proposed 1: Renovate Ournset to how	se 12000 aug

Propose	12: Renovate Chicken	Coop to V	louse 300h	eus Propose	d 3:		
Facili	ty and environmental risk		Faci	ilities			NRCB USE ONLY
	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 YES with exemption	Not in flood plain
re c	How many springs are within 100 m of the manure storage facility or manure collection area?		0	0		YES NO YES with exemption	No springs observed during site visit
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?		0	0		YES NO YES with exemption	Nearest well is 597m from MC/MSF
Su ri	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)		augusto bel	aurent dug	out	YES NO YES with exemption	Eight Mile Lake 3.5 km NE
lwater	What is the depth to the water table?	33 m	canald .			YES NO YES with exemption	No evidence of a shallow water table
Groundwater	What is the depth to the groundwater resource/aquifer you draw water from?	None		<i>J</i> ** –	3	YES NO YES with exemption	WW 106350 on parcel; well survey, no info WW ID 106348: UGR >50.29 m

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

See attached water well drilling report. Performed on NW corner of quarter.

Application LA24048 Page 5 of 19





ERST for <u>proposed</u> facilities			
Facility	Groundwater score	Surface water score	File number
Quail barn	Low	Low	LA24048
_ayer barn	Low	Low	LA24048
Manure pad	Low	Low	LA24048
RST for <u>existing</u> facilities			
Facility	Groundwater score	Surface water score	File number
None			
RST related comments: New CFOs that meet or vater and groundwater	exceed AOPA requiremer	nts are presumed to բ	oose a low risk to surface



NRCB USE ONL WATER WEI		WATER INFORMATI	ON					
Well IDs:	106350 (federal	well survey) - loacted	at NW corner of pro	perty				
	106348 - approx. 1 km E of property							
Surface water re	Surface water related concerns from directly affected parties or referral agencies:							
				☐ YES ☑NO				
Water wells								
If applicable, ex	emption for 100 m dist	ance requirements applied:	YES NO Condition	required:				
	•	nce requirements applied:	YES NO Condition	required: YES NO				
Water Well Exc	emption Screening To	ool 🔽 N/A						
Wat	ter Well ID	Preliminary Screening Score	Secondary Screening Score	Facility				
Groundwater o	or surface water relat	ted comments:						

25/11/2024, 11:55 Google Maps

Google Maps



Imagery ©2024 Airbus, Maxar Technologies, S. Alberta MD€31s and Counties, Map data ©2024

Measure distance

Total distance: 597.06 m (1,958.85 ft)

Wester Well (1936)

see attached & Well Drilling Report.



Alberta Water Well Drilling Report

View in Metric Export to Excel

GIC Well ID GoA Well Tag No.

106350

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

OWN ID		-							D	ate Report Recei	ived 193	6/06/23
Well Ident	tification and L	ocation		Action (MI)							Measurer	nent in Imperial
Owner Nan KENNEY, I			Address LETHBRII	OGE		Town			Province	Country		Postal Code
Location	1/4 or LSD NE	SEC 26	TWP 9	RGE 21	W of MER 4	Lot	Block	Plan		l Description		
Measured	from Boundary o	of ft from			_	9.767171		es (NAD 83 tude112.7	739091	Elevation	2882.00 ft	
		ft from			How Location Not Verified	n Obtained				How Elevation Oi Estimated	btained	

Drilling Information Method of Drilling Type of Work Federal Well Survey Drilled Proposed Well Use Domestic & Stock Yield Test Summary Measurement in Imperial

Formation Log		Measurement in	n Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description	

		i Kelliovai Kau	e (igpiii)	Statio	Water Level	(it
1936/06/23					100.00	
Well Compl				Mea	surement in	
		ished Well Dep	oth Start D	ate		
235.00 ft					1913/01/0)1
Borehole						
Diamet 0.0	er (in)	Fr	om (ft) 0.00		To (ft) 235.00	
		licable)				
Size	OD :	0.00 in			0.00	
Wall Thickn	ess:	0.000 in	Wall Th	ickness :	0.000	in
Botton	n at :	0.00 ft		ment of the second	0.00	
			Bo	ottom at :	0.00	ft
Perforations		Diameter		17		
From (ft)	To (ft)	Slot Width(in) Siot Ler	igiti	Hole or Slot Interval(in)	
	m	0.00 ft to _	_			
	Type			At	t (ft)	
Screen Type						
Size	OD :	0.00 in				
Fron	n (ft)		o (ft)		Slot Size (in	1)
Attachn						
Attachn				Fittings		_
Attachn				Fittings _		
Attachn Top Fitt Pack	ings		Bottom	Fittings _		

Contractor C	ertification
--------------	--------------

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name EWING F

Certification No

Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

View in Metric Export to Excel

GIC Well ID

106350

GoA Well Tag No. Drilling Company Well ID

GOWN ID

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

Date Report Received 1936/06/23 Well Identification and Location Measurement in Imperia Owner Name Address Town Province Country Postal Code KENNEY, F. LETHBRIDGE TWP Location 1/4 or LSD SEC RGE W of MER Block Plan Additional Description NE GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Longitude -112.739091 2882.00 ft Latitude 49.767171 Elevation ft from How Location Obtained How Elevation Obtained ft from Not Verified Estimated Additional Information Measurement in Imperial Distance From Top of Casing to Ground Level Is Flow Control Installed Is Artesian Flow Rate Describe 0.00 igpm Recommended Pump Rate Pump Installed Depth Recommended Pump Intake Depth (From TOC) 0.00 ft Type _ Model (Output Rating) ft Well Disinfected Upon Completion Depth Did you Encounter Saline Water (>4000 ppm TDS) ft Gas Depth Geophysical Log Taken Remedial Action Taken Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well Taken From Ground Level Yield Test Measurement in Imperial Depth to water level Test Date Start Time Static Water Level Pumping (ft) Elapsed Time Recovery (ft) 1936/06/23 12:00 AM 100.00 ft Minutes:Sec Method of Water Removal Type Removal Rate igpm Depth Withdrawn From 0.00 ft If water removal period was < 2 hours, explain why Water Diverted for Drilling Diversion Date & Time Water Source Amount Taken ig

	Contractor	Certifi	catio
--	------------	---------	-------

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name EWING F

Certification No

Copy of Well report provided to owner Date approval holder signed



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

						THE USE ON		
	Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
#5	Alberta Transportation	NE-26-9-21-4	179 m	Rural Ag	1	154 m		Yes
	Alberta Transportation		242 m	Rural Ag	1	226 m		Yes
	M Van Herk	SW-25-9-21-4	637 m	Rural Ag	1	637 m		Yes
#	1 B Horvath	5E-26-9-21-4	903 m	Rural Ag	1	948 m		Yes
V	B Coyne	SE-35-9-21-4	779m	Rural Ag	1	755 m		Yes

Numbers correspond to properties/parcels labeled on page 15 of Technical Document LA24048

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)
Boston Ferms	Section 19-10-19-64	640	irrigated	568 ac/ 222 ha	Yes
Seed	Hacked agreem	ent	U		
•	,	•	1 466		
	Ber'				
			Total		

^{*} If you are **not** the registered landowner, you must attach copies of land use agreements signed by all landowners.

Additional information (attach any additional information as required)

^{**} 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

20/11/2024, 10:58 Google Maps

Google Maps



Imagery ©2024 Airbus, Maxar Technologies, S. Alberta MD€31s and Counties, Map data ©2024 50 m

Measure distance
Total distance: 178.95 m (587.10 ft)

Map included by applicant showing distance of proposed quail barn to residence to the north, identified as property #5 owned by Alberta Transportation on pages 12 and 16 of Technical Document LA24048

Google Maps



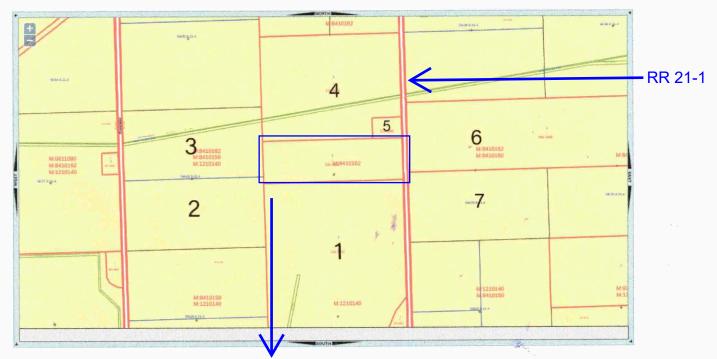
Imagery ©2024 Airbus, Maxar Technologies, S. Alberta MD€31s and Counties, Map data ©2024 50 m

Measure distance Total distance: 242.22 m (794.68 ft)

Map included by applicant showing distance of proposed quail barn to residence to the east, identified as property #6 owned by Alberta Transportation on pages 12 and 17 of Technical Document LA24048

ADDENDUM A

Properties adjacent or almost adjacent to the Horvath / Erkelens property; see the map and the legal descriptions below.



Parcel for proposed CFO. Approved for subdivision.

Property #1

Short legal description: Lot 2, Block 1, Plan 1410472 --- KCL title, recently enlarged with the balance of the Horvath property, so maybe this title description has changed.

LINC # 0039 372 313

DESCRIPTIVE PLAN 1410472

BLOCK 1

LOT 2

EXCEPTING THEREOUT: --- The old Horvath title before subdivision

PLAN

NUMBER

HECTARES (ACRES) MORE OR LESS

SUBDIVISION

2310062

19.24 47.54

EXCEPTING THEREOUT ALL MINES AND MINERALS

ATS REFERENCE: 4;21;9;26;E

Property #2

Short legal description: LSD 11&12 of 26-9-21-W4

LINC # 0018 401 299

MERIDIAN 4 RANGE 21 TOWNSHIP 9

SECTION 26

LEGAL SUBDIVISIONS 11 AND 12 IN THE NORTH WEST QUARTER

CONTAINING 32.4 HECTARES (80 ACRES) MORE OR LESS

EXCEPTING:

PLAN NUMBER HECTARES ACRES MORE OR LESS

ROAD WIDENING 8211294 0.209 0.515

EXCEPTING THEREOUT ALL MINES AND MINERALS

AND THE RIGHT TO WORK THE SAME

Property #3

Short legal description: LSD 13&14 of 26-9-21-W4

LINC # 0017 855 942

MERIDIAN 4 RANGE 21 TOWNSHIP 9

SECTION 26

LEGAL SUBDIVISIONS 13 AND 14

IN THE NORTH WEST QUARTER

CONTAINING 32.4 HECTARES (80 ACRES) MORE OR LESS

EXCEPTING THEREOUT:

PLAN NUMBER HECTARES ACRES MORE OR LESS

0.515

ROAD WIDENING 8211294 0.209

EXCEPTING THEREOUT ALL MINES AND MINERALS

AND THE RIGHT TO WORK THE SAME

Property #4

Short legal description: Lot 1, Block 1, Plan 1710179

LINC # 0037 468 725

DESCRIPTIVE PLAN 1710179

BLOCK 1

LOT 1

CONTAINING 48.36 HECTARES (119.50 ACRES) MORE OR LESS

EXCEPTING THEREOUT:

PLAN NUMBER HECTARES (ACRES) MORE OR LESS

SUBDIVISION 1710180 2.00 4.94

EXCEPTING THEREOUT ALL MINES AND MINERALS

ATS REFERENCE: 4;21;9;35;SE ATS REFERENCE: 4;21;9;26;NE

Property #5 (acreage to the north)

Short legal description: Lot 2, Block, 1, Plan 1710180

LINC # 0037 468 733

PLAN 1710180

BLOCK 1

LOT 2

EXCEPTING THEREOUT ALL MINES AND MINERALS AREA: 2 HECTARES (4.94 ACRES) MORE OR LESS

ESTATE: FEE SIMPLE

ATS REFERENCE: 4;21;9;26;NE

Property #6

Short legal description: Lot 1, Block 1, Plan 0611605

LINC # 0033 059 577

PLAN 0611605

BLOCK 1

LOT 1

CONTAINING 62.4570 HECTARES(154.33 ACRES) MORE OR LESS

EXCEPTING THEREOUT:

HECTARES (ACRES) MORE OR LESS

A) PLAN 0810836 ROAD

0.208 0.51

EXCEPTING THEREOUT ALL MINES AND MINERALS

ATS REFERENCE: 4;21;9;25;N

Property #7

Short legal description: LSD 11&12 of 25-9-21-W4

LINC # 0033 059 783

MERIDIAN 4 RANGE 21 TOWNSHIP 9

SECTION 25

LEGAL SUBDIVISIONS 11 AND 12

CONTAINING 32.4 HECTARES(80 ACRES) MORE OR LESS

EXCEPTING THEREOUT:

HECTARES (ACRES) MORE OR LESS

A) PLAN 0810836 ROAD

0.209 0.52

EXCEPTING THEREOUT ALL MINES AND MINERALS

AND THE RIGHT TO WORK THE SAME



NRCB USE ONLY						
MINIMUM DISTAN	CE SEPARATION					
Methods used to determine distance (if applicable): Google Earth						
Margin of error (if applical						
Requirements (m): Catego	ory 1: <u>121 m * </u>	Category 2: <u>161 r</u>	Category 3	: 201 m Category 4: 322 m		
Technology factor:				☐ YES M NO		
Expansion factor:				☐ YES ☑ NO		
MDS related concerns from	m directly affected parties	or referral agenc	ies:	☑ YES □ NO		
The nearest resider	nce to the north, ind	icated on pag	es 14 & 15 of	that the minimum MDS is 150 m. Technical Document LA24048 as are this requirement is met.		
LAND BASE FOR MA	ANURE AND COMP	OST APPLICA	TION			
Land base required:	17.3 ha/ 42.7 ac ir	rigated				
Land base listed:	640 ac/ 259 ha	-				
Area not suitable:	72 ac/37 ha (dry c	orners)				
Available area	568 ac/ 222 ha	-	Requirement me	t: YES NO		
Land spreading agreemen	ts required: YES	s 🗆 no				
Manure management plan	n: YES	s <mark>M</mark> NO	If yes, plan is at	ttached:		
developed "Interim	Guideline for Quail	and Pheasan	ts - Threshold	Agriculture and Irrigation have Numbers and Factors for late to one broiler chicken.		
PLANS						
Submitted and attached of	onstruction plans:	☐ YES ☑ NO				
Submitted aerial photos:		▼ YES □ NO				
Submitted photos:		☐ YES ☑ NO				
GRANDFATHERING						
Already completed:		☐ YES ☐ NO	N/A			
If already completed, see						

This agreement is made on Nov 18, 2024 between

Boston Farms	1	TONV BOS	
	(lar	ndowner) and	

Craft Quality Poultry Ltd (John and Sharon Erkelens)
(applicant)

We do agree that if Craft Quality Poultry Ltd has excessive manure we will take it to apply to our land.

The land mentioned is located at SECTION 19 -10-19 WY

The terms of the agreement will expire in 5 years and will need to be revisited again.

		Dec.
John Erkelens	Tony Bos	100

Lethbridge, November 18, 2024



NRCB USE ONLY							
ALL SIGNATURES	IN FILE	✓YES □	ОиС				
DATES OF APPROV	AL OFFICER SITE V	ISITS					
November 22, 2024	4						
CORRESPONDENCE	WITH MUNICIPAL	ITIES AN	ID REFERE	RAL A	AGEN	CIES	
Date deeming letters sent	: January 7, 2024				-		
Municipality: <u>Lethbric</u>	dge County				-		
☐ letter sent	response received	✓ writter	n/email		verbal		no comments received
Alberta Health Service	es: N/A on after receiving a respo	nse citina	health conce	rne			
letter sent	response received	writter			verbal		no comments received
Alberta Environment ar	nd Parks:						
☑ letter sent	response received	☑ writter	n/email	П	verbal		no comments received
	_	Wilee	ı, cırıdı	_	verbui	_	no commento received
Alberta Transportation							
☑ letter sent	☑ response received	writter writter	n/email		verbal		no comments received
Alberta Regulatory Ser	vices: N/A						
☐ letter sent	response received	☐ writter	n/email		verbal		no comments received
014515						_	
Other: SMRID						□ N/A	
letter sent	response received	writter	n/email		verbal		no comments received
ATCO Count	ty of Lethbridge Rura	al Water /	\eeociation	. I td			
Alpha Bow Ei	<u>ty of Lethbridge Rura</u> nergy Ltd.	ii vvatei <i>F</i>	1550Clatioi			,	,
letter sent	☐ response received	☐ writter	n/email		verbal	V	no comments received



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		

cili	ty description / name (as indicated on site plan)	1. Quart Facili	ty 50 X w/manure
		2	2. Chicken C	oop 15' x 30'
nu	re storage capacity			
	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m³)
	7.315 m	7.315 m	0-15m	
	To be Shared w/o	Quail Facili	ty Manure Pad.	
l la		ıre pad: 15.2 m x 27.4 m	TOTAL CAPACITY	Manure pads are considered 9 months storage
uir fa		out in the NRCB <u>Short-Term Sol</u>	lid Manure Storage Requirements	Fact Sheet.
uir rfa esc	ce water control system cribe the run-on and runof	ns f control system for barn will have a roof a		Fact Sheet.

Requirements met:

✓ YES □ NO

NRCB USE ONLY

5.5 "

Concrete liner details Concrete thickness

Concrete strength

Spok

pony

30 mpa for manure pad



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.)

Method of sulphate protection:

Concrete reinforcement size and spacing

15 0/

25 MPA 15	0/6
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 e with the applicant that the concrete for the manure pad n Additional information (attach as required) Wall does not prevent run on.	Requirements met: YES NO Condition required: YES NO Report attached: YES NO eeds to meet requirements for Category C as the
NRCB USE ONLY	
Nine month manure storage volume requirements met ✓ YES	YES With STMS NO
Depth to water table: No evidence of a shallow water table Rec	quirements met: ✓ YES □ NO
Depth to Uppermost groundwater resource: 50.29 m	quirements met: YES NO
ERST completed: ✓ see ERST page for details	
Surface water control systems	
Requirements met: ✓ YES ☐ NO Details/comments:	
Concrete liner details There will be a condition requiring concrete for the propost barn meet requirements for category D (solid manure - dr. "Non-Engineered Concrete Liners for Manure Collection a Condition requiring the concrete for the manure pad meet Technical Guideline Agdex 096-93 "Non-Engineered Concestorage Areas" Leakage detection system required: YES NO If yes, please explain	y) in Technical Guideline Agdex 096-93 and Storage Areas" Category C (solid manure - wet) in crete Liners for Manure Collection and