

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

NKCB OSE ONLY	Application number	Legal	land description
Approval Registration Authorization	LA25051	SW:	27-5-16-4
APPLICATION DISCLOSURE			
This information is collected under the authority of the provisions of the <i>Freedom of Information and Protectio</i> written request that certain sections remain private.	Agricultural Operation Practices Act in of Privacy Act. This information is	(AOPA), and is public unless the	subject to the ne NRCB grants a
Any construction prior to obtaining an NRCB pern prosecution.			
I, the applicant, or applicant's agent, have read and un provided in this application is true to the best of my kn	derstand the statements above, and owledge.	d I acknowledge	that the information
Date of signing	Signature		
Bluegrase Colony Farming Co Corporate name (if applicable)		lipt	
GENERAL INFORMATION REQUIREMENTS			
<b>Proposed facilities:</b> list all proposed confined feeding proposed facilities are additions to existing facilities. (	g operation facilities and their dimer attach additional pages if needed)	nsions. Indicate	whether any of the
Proposed facilities			imensions (m) n, width, and depth)
Above ground Tank (75.6	m internal diameter x 4.9 m ta	24	8 id x 16 th
Dainy Barn	(128 m x 45.7 m)	3115	420 x 150
Pit	(4.9 m x 4.9 m x 3.7 m deep)	杨阳	ox 12 Doepx 16x1
		•	W
AO Comment: The proposed pit is to be an in-	barn pit that will be part of the	proposed da	iry barn.
Existing facilities: list ALL existing confined feeding	operation facilities and their dimens	ions	
Existing facilities	Dimension (length, width,	- ()	NRCB USE ONLY
NRCB USE ONLY			
AO Comment: CFO is currently permitted und	er NRCB Authorization LA1602	7 and Approv	ral LA05042B.
			74-



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ting facilities continued		Dimens (length, wid	NRCB USE ONI	
Existing Permitted Facilities				
Facility	Dimensions		Permit	***************************************
Swine barn	71 m x 50 m +	133 m x 31 m	Deemed (98-	31 and/or
Dairy barn	100 m x 40 m	***************************************	existed on Ja	nuary 1,
Corrals and shelter	112 m x 66 m	+ 60 m x 53 m	2002)	
Poultry barn (ducks, geese, turkeys, broilers and layers)	31 m x 20 m			
Poultry outside pens	22 m x 18 m			
Earthen liquid manure storage – cell #1	103 m x 45 m	- Hamilton		
EMS - cell #2	103 m x 90 m	1		
wine Barn Addition		71 m x 26 n	1	
	Nile and the second			
	093.36			





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	completion date for proposed facilitie	es_October	2028		
		es October	2028		
		es October	2028		
		es_October	2028		
		es October	2028		
		es <u>who per</u>	avas		
icional in	rormation				
vestock n	umbers: Complete only if livestock number	ers are different from wh	nat was identified in the	Part 1 application.	Note: i
	nbers increase in your Part 2 application, a	new Part 1 application i	must be submitted which	th may result in a l	
iority for m	inimum distance separation (MDS).				oss of
Li	rachaels enterems and turns				oss of
	vestock category and type		Proposed increase	or	
Available i	n the Schedule 2 of the Part 2 Matters	Permitted number	decrease in numb	or	
Available i	1	Permitted number	decrease in numb (if applicable)	or er Tot	al
Available i	n the Schedule 2 of the Part 2 Matters Regulation)	Permitted number	decrease in numb (if applicable)	or	al
Available i	n the Schedule 2 of the Part 2 Matters Regulation)  Livestock category and type	Permitted livestock	decrease in numb (if applicable)	or er Tot	al
Available i	n the Schedule 2 of the Part 2 Matters Regulation)	Permitted Sysetack	decrease in numb (if applicable)  Proposed increase or	or er Tot	al
Available i	Livestock category and type  (Available in the Schedule 2 of the Part 2 Matter Regulation)	Permitted livestock	decrease in numb (if applicable)  Proposed increase or decrease in number	or er Tot	al
Available i	Livestock category and type (Available in the Schedule 2 of the Part 2 Matter Regulation)  Chicken / Gyers  Saws Farrow to Foresh	Permitted livestock numbers 300	decrease in numb (if applicable)  Proposed increase or decrease in number	or Total	al
Available i	Livestock category and type (Available in the Schedule 2 of the Part 2 Matter Regulation)  Chicken / Gyers  Saws Farrow to Foresh	Permitted livestock numbers 300	Proposed increase or decrease in number (if applicable)	Total	al
Available i	Livestock category and type (Available in the Schedule 2 of the Part 2 Matter Regulation)  Chicken / Gyers  Saws Farrow to Lionish Miking Cows replaces	Permitted livestock numbers  300  600  ries and ments) 152	decrease in numb (if applicable)  Proposed increase or decrease in number (if applicable)	Total  300 600 350	al
Available i	Livestock category and type (Available in the Schedule 2 of the Part 2 Matter Regulation)  Chis Ken / Gyers  Saws Farrow to Franch Miking Cows replaces Chicken Broilers	Permitted livestock numbers  300  400  ries and ments) 152  1000	decrease in numb (if applicable)  Proposed increase or decrease in number (if applicable)	Total  300 600 350 /000	al
Available i	Livestock category and type (Available in the Schedule 2 of the Part 2 Matter Regulation)  Chicken / Gyers  Saws Farrow to Linnish Milking Cows replaced  Chicken Broilers  Ducks	Permitted livestock numbers  300  600  ries and ments) 152  1000	decrease in numb (if applicable)  Proposed increase or decrease in number (if applicable)	Total  300 600 350 /000 /500	al
Available i	Livestock category and type (Available in the Schedule 2 of the Part 2 Matter Regulation)  Chis Ken / Gyers  Saws Farrow to Fransh Miking Cows replaced Chicken Broilers  Ousks  Cheese	Permitted livestock numbers  300  600  ries and ments) 152  1000  1500  300	decrease in numb (if applicable)  Proposed increase or decrease in number (if applicable)	Total  300 600 350 1500 300	al
Available i	Livestock category and type (Available in the Schedule 2 of the Part 2 Matter Regulation)  Chicken / Gyers  Saws Farrow to Linnish Milking Cows replaced  Chicken Broilers  Ducks	Permitted livestock numbers  300  600  ries and ments) 152  1000	decrease in numb (if applicable)  Proposed increase or decrease in number (if applicable)	Total  300 600 350 /000 /500	al
Available i	Livestock category and type (Available in the Schedule 2 of the Part 2 Matter Regulation)  Chis Ken / Gyers  Saws Farrow to Fransh Miking Cows replaced Chicken Broilers  Ousks  Cheese	Permitted livestock numbers  300  600  ries and ments) 152  1000  1500  300	decrease in numb (if applicable)  Proposed increase or decrease in number (if applicable)	Total  300 600 350 1500 300	al



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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

OPTION 1: Applying through the NRCB for both the AOP	A permit and the Water Act licence
I DO want my water licence application coupled to my AOF	PA permit application.
Signed thisday of, 20	Signature of Applicant or Agent
OPTION 2: Processing the AOPA permit and Water Act lie	cence separately
I (we) acknowledge that the CFO will need a new water lice development or activity proposed in this AOPA application.	
<ol><li>I (we) request that the NRCB process the AOPA application CFO's application for a water licence.</li></ol>	
<ol> <li>In making this request, I (we) recognize that, if this AOPA NRCB's decision will not be considered by EPA as improving water licence under the Water Act.</li> </ol>	
<ol> <li>I (we) acknowledge that any construction or actions to por AOPA permit in the absence of a Water Act licence will not whether to grant the Water Act licence application.</li> </ol>	
<ol> <li>I (we) acknowledge that any such construction or livestock the Water Act licence application is denied or if the operativiolation of the Water Act. This risk includes being require</li> </ol>	on of the CFO is otherwise deemed to be in
further construction, or to remove "works" or "undertaking 6. <b>AS RELEVANT:</b> I (we) acknowledge that the CFO is located	
and that, pursuant to the Bow, Oldman and South Saskato [Alta. Reg. 171/2007], this basin is currently closed to nev	v surface water allocations.
7. <b>Provide:</b> Water licence application number(s)	
Signed this day of, 20	Signature of Applicant or Agent
OPTION 3: Additional water licence not required	
I (we) declare that the CFO will not need a new licence fro	m EPA under the Water Act for the
development or activity proposed in this AOPA application.  2. <b>Provide</b> : Water license number(s) or water conveyance as	
39 acre feet	
Signed this 9 day of July , 2025	
	Signature of Applicant or Agent

### WATER CONVEYANCE AGREEMENT - OTHER USES

Historical Users - no additional water Irrigation Districts Act section 21(2)(a.1)

This Agreement dated the

3/ day of

, 2006.

Between:

Bluegrass Hutterian Brethren

Box 99

Warner, Alberta T0K 2L0 (the "Applicant")

- and -

**Raymond Irrigation District** 

Box 538

Raymond, Alberta T0K 2S0 (the "District")

### BACKGROUND:

- 1. The Applicant has historically been using water delivered from the District for Other Uses and the District and the Applicant wish to confirm and document those deliveries by way of this Agreement.
- 2. The Applicant has applied to the District under section 21(2)(a.1) of the *Irrigation Districts Act* R.S.A 2000, c. 1-11 (the "Act"), to enter into a water conveyance agreement with the District to continue to receive the additional delivery of water from the District for a purpose other than for use on irrigation acres, for use under an alternate parcel delivery agreement, for rural water use, or for household purposes.
- 3. The District is the holder of several Licences that authorize the District to deliver water for any of the purposes specified in the Licences.
- 4. Section 6 of the Act authorizes the District to deliver water in accordance with the terms and conditions of the Licences.
- 5. The Applicant has used the water on the lands legally described as:

MERIDIAN 4 RANGE 16 TOWNSHIP 6 SECTION 4 QUARTER NORTH EAST EXCEPTING THEREOUT ALL MINES AND MINERALS AREA: 64.7 HECTARES (160 ACRES) MORE OR LESS LINC 0022 448 956

(the "Lands")

6. The Applicant has historically used the following volume of water pursuant to the rights

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	uno	er the Licences, 39 acre feet (the "Annual Volume"). AE
7.		Applicant proposes to continue to use the water for the following purpose:
		Circletach + Co.
(4)		livestach of Sanden (the "Purpose")
8.	The	District is prepared to continue to deliver the Annual Volume to the Applicant on the subject to the terms and conditions contained in this Agreement.
AG]	REEM	
Γhe	parties	gree as follows:
١.		nitions - In this Agreement:
	a.	"Agreement" means this Agreement including the Background;
	b.	"Additional Volume" means those volumes of water, in addition to the Annual Volume which the District specifically authorizes in writing from time to time during the term of this Agreement be conveyed to the Applicant, or that volume of water which the Water Supervisor's records record as having been conveyed to the Applicant in excess of the Annual Volume;
	c.	"Annual Fee" means the fee applicable to this Agreement established by the District by a Fee By-Law pursuant to section 115 of the Act;
	d.	"Annual Volume" means that volume of water defined herein as the Annual Volume;
	e.	"Conveyance" means the continued conveyance by the District of the Annual Volume to the Applicant through the Point of Delivery;
	f.	"Default" includes the happening of any of the following events:
*		i. failure of the Applicant to pay the Annual Fee by the due date;
		ii. use of any portion of the Annual Volume for other than the Purpose;
		iii. use of any portion of the Annual Volume on a parcel of land other than the Lands;
		iv. the Applicant has used or is using any portion of the Annual Volume in a manner that is causing or may cause loss or damage to property or personal injury to any person;
		<ul> <li>waste all or any portion of the Annual Volume or permit all or any portion of the Annual Volume to escape from the Lands;</li> </ul>
		vi. the Applicant contravenes any provision of the Act or this Agreement, or

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the Applicant files an assignment in Bankruptcy;

vii.

- g. "Fee Bylaw" means the bylaw passed by the District pursuant to section 115 of the *Act* establishing the Annual Fee;
- h. "Irrigation Works" means Irrigation Works as defined in the Act;
- i. "Licences" means the total of all the licences held by the District pursuant to the provisions of the *Water Act*, R.S.A. 2000 c. W-3;
- "Meter" means a water measurement device approved by the District for the purpose of measuring the volume of water conveyed to the Applicant;
- k. "Metered Volume" means the volume of water conveyed to the Applicant as recorded by the Meter;
- 1. "Other Uses" means those uses other than irrigation which have historically been permitted under the terms and conditions of the Licences as the Licences have been interpreted pursuant to the *Water Resources Act* R.S.A. 1980 Cpt W-5, as it then was; the *North-west Irrigation Act*, 1898, 57-58 Victoria Chap 30, as amended, as it then was; *The Alberta Act*, 4 and 5 Edward VIII, Chapter 3, as it then was; the *Irrigation Act*, Chapter 61, R.S.C., as it then was, and all applications made by the District and its predecessors for allocations of water as recognized and authorized by the Licences.
- m. "Point of Delivery" means that location on the Irrigation Works of the District at which the Annual Volume is conveyed by the District for conveyance to the Applicant;
- n. "Purpose" means the purpose for which the Applicant uses the Annual Volume, as defined in the Background in this Agreement;
- o. "Turnout Structure" means those structures or works as are required by the District at the Point of Delivery to allow the District to convey to the Applicant the Annual Volume for use by the Applicant on the Lands; and
- p. "Water Supervisor" means the individual employed by the District who has responsibility for the conveyance of water to the Applicant and the measurement and recording of the volume of water conveyed.

### 2. Conveyance

- a. The District agrees to convey to the Applicant at the Point of Delivery through the Irrigation Works the Annual Volume for the use by the Applicant on the Lands.
- b. The Annual Volume shall be conveyed at times, rates and amounts as the District may have water available and capacity in its Irrigation Works for such conveyance.
- c. The total volume of water conveyed in each calendar year under this Agreement shall be limited to the Annual Volume unless the District expressly authorizes in writing the conveyance of Additional Volumes.

- 3. **Purpose and Location** The Applicant will use the Annual Volume and any Additional Volumes only for the Purpose and only on the Lands.
- 4. **Term** This Agreement shall continue in full force and effect until terminated by either party in accordance with its terms.

### 5. Annual Fee

- a. In consideration for the Conveyance, the Applicant agrees to pay to the District the Annual Fee, as established by an Fee By-Law and calculated pursuant to the terms of this Agreement.
- b. The Annual Fee shall be due and payable on or before the 31<sup>st</sup> day of December in each year during the currency of this Agreement, and will be invoiced to the Applicant by the District by way of an assessment notice as required by the Act.
- c. The Annual Fee will be calculated as follows:
  - i. In each calendar year, for a Point of Delivery on which a Meter has been installed as provided for in this Agreement, the Annual Fee will be calculated as the sum of:
    - the product of the rate per unit volume applicable to the Annual Volume as established by the Fee By-Law and the Metered Volume of water conveyed to the Applicant at the Point of Delivery; plus
    - the product of the rate per unit volume applicable to the Additional Volume of water conveyed as established by the Fee By-Law and the Additional Volume as recored by the Meter conveyed to the Applicant at the Point of Delivery.
  - ii. In each calendar year, for Points of Delivery on which a Meter has not been installed as provided for in this Agreement, the Annual Fee will be calculated as the sum of:
    - the product of the rate per unit volume applicable to the water conveyed as established by the Fee By-Law and the Annual Volume; plus
    - 2. the product of the rate per unit volume applicable to the Additional Volume of water conveyed as established by the Fee By-Law and the Additional Water as recorded by the Water Supervisor's records conveyed to the Applicant at the Point of Delivery.
- 6. **Point of Delivery** The District shall convey the Annual Volume to the Applicant at the Point of Delivery. The water shall be removed from the Irrigation Works of the District at the Point of Delivery through the Turnout Structure. The Turnout Structure shall comply

with the District's standard specifications for such Irrigation Works, and shall be installed by the District, at the expense of the Applicant, and at all times material hereto shall be operated and maintained by the District.

- 7. Works All turnout structures, equipment or works installed on the Irrigation Works of the District by the Applicant pursuant to this Agreement, shall become the property of the District.
- 8. Metering and Water Conveyance Records
  - a. The District may require the Applicant to supply, install and maintain a Meter at the Point of Delivery or such other place as may be designated by the District for the purpose of measuring the amount of the Annual Volume and Additional Water conveyed from time to time by the District to the Applicant.
  - b. The Applicant grants to the District the right and licence during the currency of this Agreement to enter upon the Lands and to monitor the use of and record the data collected by the Meter.
  - c. All volumes recorded by the Meter shall conclusively be deemed to record the actual volumes conveyed to the Applicant and the Applicant and the District shall be bound by the volumes so recorded, unless it is determined that the Meter was faulty or otherwise materially inaccurate.
  - d. At Points of Delivery on which no Meter is installed, the records made and maintained by the Water Supervisor of the volumes of water conveyed to the Applicant by the District shall be conclusively deemed to record the actual volumes conveyed to the Applicant and the Applicant and the District shall be bound by the volumes so recorded.
- Ordering Water The Applicant shall order the conveyance of water and call for the termination of such conveyance in accordance with the applicable prevailing bylaws and policies of the District.

### 10. Indemnity

- a. The Applicant shall indemnify and keep indemnified the District against any liability for losses and expenses of whatever kind or nature, and the fees and disbursements of counsel on a solicitor and own client basis, and against any losses and expenses, which the District may incur in connection with any one or more of the following events or circumstances (the "Events"):
  - by reason of having conveyed to the Applicant all or any portion of the Annual Volume;
  - ii. by reason of the inability of the District to convey to the Applicant all or any portion of the Annual Volume;
  - iii. by reason of the failure of the Applicant to perform or comply with the terms and conditions of this Agreement, and

- iv. in enforcing any of the terms and conditions of this Agreement; and
- v. any damages or losses, either by way of personal injury or property damage, suffered or incurred by the Applicant or any third party by reason of the Conveyance or the presence of the Annual Volume on the Lands or the use by the Applicant of the Annual Volume on the Lands.
- b. The District may pay or compromise any claim, demand, suit, judgment or expense arising out of the Events and any such payment or compromise shall be binding upon the Applicant and included as a liability, loss or expense covered by this indemnity, provided the same was made by the District in the reasonable belief that it was liable for the amount disbursed, or that such payment or compromise was reasonable under all the circumstances.
- c. In the event of any such payment or compromise by the District, an itemized statement of it prepared and certified by the manager or assistant manager of the District, itemizing of such payment or compromise shall be prima facie evidence of the fact and amount of the liability of the Applicant under this Agreement, in respect of the payment or compromise.
- d. The District shall not be liable for any losses or damage either direct, indirect or consequential, for loss, injury or damage whatsoever arising out of the failure or inability of the District to convey all or any portion of the Annual Volume for any reason whatsoever.
- 11. Compliance With Laws The Applicant shall comply with and be bound by the provisions of all statutes and regulations applicable to the privileges hereby granted, and with all bylaws of the District regulating the supply and distribution of water.
- 12. **Default** In the event the Applicant is in Default of any of the provisions of this Agreement, the District may forthwith stop delivery of water or terminate this Agreement and in such case there shall be no abatement or refund of the Annual Fee paid by the Applicant to the District during the term of this Agreement prior to the stoppage or termination.
- 13. **Termination** The Applicant may terminate this Agreement upon providing 30 days written notice to the District of its intention to do so, and following the expiry of the 30 day notice period, this Agreement shall be terminated and at an end and from that point forward, the Applicant shall have no further right or entitlement to or claim to the delivery of Annual Volume.

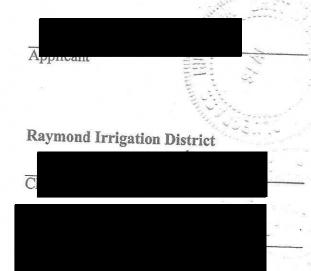
### 14. Water Quality

- a. The Applicant acknowledges that the Irrigation Works of the District are an open ditch system subjecting the water therein to contamination from all manner of environmental, human and animal factors and that the District does not regulate, control or monitor the quality of water in its Irrigation Works.
- b. The Applicant acknowledges and agrees that the water in the Irrigation Works of the District may not be potable or may not be suitable for the Purpose, and that the District makes no representation, warranty or guarantee, express or implied that the

water delivered under this Agreement is potable and fit for human or livestock consumption or suitable for the Purpose for use by the Applicant.

- c. The Applicant agrees to accept the water conveyed in the condition in which it may be found at the Point of Delivery from time to time and to provide such testing, treatment or filtering as the Applicant considers necessary to determine whether the water is suitable for the use by the Applicant for the Purpose.
- 15. Seasonal Delivery The Applicant acknowledges that the District can convey the Annual Volume only during the irrigation season and that the water conveyance capacity of the Irrigation Works of the District is limited and the District will convey, from time to time, so much of the Annual Volume as it, in its exclusive discretion, deems advisable.
- 16. Assignment or Transfer Neither this Agreement nor any of the rights and privileges contained in this Agreement is assignable or transferable by the Applicant, in whole or in part, without prior written consent of the District.

IN WITNESS WHEREOF the District has by its proper officers signed this Agreement and has affixed the seal of the District hereto, and the Applicant has hereunto set his hand and seal on the day and year first above written.



WP51: Other Uses -Bluegrass Historical



# **Water Well Drilling Report**

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No.

9961032 A8306

Measurement in Metric

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.

Drilling Company Well ID Date Report Received

2024/02/29

Well Iden	tification and L	ocation.									Measur	ement in Metric
Owner Nar BLUE GRA	ne ASS FARMING		Address P.O. BOX	29		Town WAR			Province ALBERTA	Country		Postal Code T0K 2L0
Location	1/4 or LSD 2	SEC 27	TWP 5	RGE 16	W of MER	Lot	Block	Plan	Additiona	l Description	erne i i amagina mangenta difam	
Measured		f Qui m from No m from Ea			GPS Coordin Latitude <u>4</u> How Location Not Verified	9.409867		es (NAD 83 tude <u>-112.</u> 0	078807	Elevation How Elevation O	CONTRACTOR OF THE PROPERTY OF	

**Drilling Information** Method of Drilling Type of Work Rotary - Mud New Well Proposed Well Use Domestic

Yield Test Summary

Recommended Pump Rate

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
24.38		Sand & Clay	
36.58		See Comments	
200.56		Shale	
201.78		Coal	
204.83		Rocks	
213.97		Dark Shale	
218.85		Sandstone	
220.07		Rocks	
235.31		Sandstone	
236.22		Shale	

Test Date	Water	Removal Rate (I	_/min)	Static Water Level (m)
2024/02/28		90.92		51.51
Well Completion	on			Measurement in Me
Total Depth Drill	ed Finis	hed Well Depth	Start Date	End Date
	236.		2024/02/21	
Borehole				
Diameter (	cm)	From	(m)	To (m)
18.42		0.0		236.22
Surface Casing Steel	(if appli	cable)	Well Casing/L	Liner
Size OD	):	13.97 cm	Size (	DD: cm
			Wall Thickne	ess: cm
Bottom at	t:2:	36.22 m	Тор	at:m_
			Bottom	at: m
Perforations				*
From (m) T		Diameter or Slot Width (cm)	Slot Length (cm)	
216.41 2	36.22	0.318	30.48	5.08
	0.0	Slurry 00 m to 90.00 Bags		
	Type			At (m)
Screen Type				
Size OD	:	cm		
From (m	1)	To (	m)	Slot Size (cm)
Attachmen	t			
				gs
Pack				
			Grain Size	

45.46 L/min

0	Certification	
L.Onvracior	L'euncanon	

Name of Journeyman responsible for drilling/construction of well

RICHARD COVERDALE

Company Name

MILK RIVER WATER WELL DRILLING

Certification No

3836AD

Copy of Well report provided to owner

Date approval holder signed

2024/02/29



# Water Well Drilling Report View in Imperial GIC Well ID Export to Excel 9961032

GoA Well Tag No. Drilling Company Well ID

A8306

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. GOWN ID

Well Identification and Location							рате кероп кес		rement in M
Owner Name BLUE GRASS FARMING	Address P.O. BOX 29		Town			Province		y	Postal Cod
ocation 1/4 or LSD SEC 2 27	TWP RG		Lot		Plan	ALBERTA	CANAL al Description	DA	TOK 2L0
	Quarter North	4 GPS Coordina Latitude 49 How Location Not Verified	0.409867				Elevation  How Elevation C  Hand held auton	btained	
dditional Information								Measu	rement in M
Distance From Top of Casing to Gi Is Artesian Flow			Is F	low Contro	ol Installed				
Rate	L/min				Describe				-
Recommended Pump Rate Recommended Pump Intake Depth		45.46 L/min 137.16 m	Pump In	stalled		Make	Depth  Model (Output	M H.P.	
Did you Encounter Saline Water	(>4000 ppm TDS)	Depth		m	Well Disinfe	ected Upon I			
Remedial Action Taken	Gas	Depth _		m	Geop	hysical Log Submitted to	Taken		
Additional Comments on Well						97.	Sul		
LITHOLOGY LOG AT 120 FT IS C 2024. ADDED SWL COMMENT AT				R YIELD			<u> </u>	1.82 M BTO	ON JULY 8,
ield Test		State of the state			Take		p of Casing to water level	Measu	rement in M
Test Date Start Ti. 2024/02/28 8:00 AM		Static Water Level 51.51 m		Pumpi	ing (m)	Eli	apsed Time linutes:Sec	Reco	very (m)
flethod of Water Removal							0:00 1:00	1.	47.52 43.87
Type Other  Removal Rate	90.92 L/min						2:00 3:00		40.51 37.16
Depth Withdrawn From							4:00 5:00		34.11 31.06
							6:00		28.02
water removal period was < 2 hor	urs, explain why						7:00		25.27
							8:00		22.53
							9:00		19.79
							10:00 12:00		17.35 13.08
							14:00		09.12
						7	16:00		05.46
							18:00		02.11
							20:00	9	8.76
							25:00		2.35
							30:00		6.56
					0.00		35:00		4.43
			100000				40:00 50:00		7.11 0.41
							60:00		5.23
							75:00		9.44
				*/			90:00	5	5.78
							105:00		3.34
	to and the same					4	120:00	5	1.51
ater Diverted for Drilling		Amount T-1-				D	Data P Ti-		
/ater Source ESERVOIR		Amount Taken 45460.92 L	on production				Date & Time 21 8:00 AM		
		Va-	**************************************		-60				4-
contractor Certification lame of Journeyman responsible fo	r drilling/construction	of well			Certification	No			
ICHARD COVERDALE					836AD		U. Nakonovo na provincia de la companio de la comp		Water to Angeles and Angeles a
ompany Name				C	copy of Well	report provi		ate approva 024/02/29	l holder signe



Well Identification and Location

# **Water Well Drilling Report**

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. Drilling Company Well ID

9961033 A8307

**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 2024/02/29 Measurement in Metric Province Country Postal Code ALBERTA CANADA TOK 2L0 Additional Description

Owner Name Address Town BLUE GRASS FARMS P.O. BOX 29 WARNER Location 1/4 or LSD SEC TWP W of MER RGE Block Lot Plan 2 27 5 16 4 GPS Coordinates in Decimal Degrees (NAD 83) Quarter Measured from Boundary of Latitude 49.409715 \_\_\_ Longitude \_-112.076466 957.00 m 366.00 m from South How Location Obtained 600.00 m from East How Elevation Obtained Мар Hand held autonomous GPS 20-30m

**Drilling Information** Method of Drilling Type of Work Rotary - Mud New Well Proposed Well Use

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
24.38		Gray Clayey Sand & Clay	
36.58		Gray Clayey Clay & Sand	
199.64		Dark Shaly Shale	
203.30		Dark Shaly Shale & Coal	
204.22		Dark Rocky Rocks	
210.31		Dark Shaly Shale	
217.93		Dark Rocky Sandstone	
218.85		Dark Rocky Rocks	
234.70		Dark Rocky Sandstone	
236.22		Dark Shaly Shale	

Recommended Pul	mp Rate4	5.46 L/min		
	Water Removal Rate	e (L/min)	Static	Water Level (m)
2024/02/23	45.46			59.74
Well Completion Total Depth Drilled 236.22 m Borehole	Finished Well Dep		te	esurement in M End Date 2024/02/21
Diameter (cm	i) Fro	om (m)		To (m)
19.05		0.00		236.22
Surface Casing (if Steel	applicable)	Well Casin	ng/Liner	
	13.34 cm	Siz	ze OD : _	cm
	0.732 cm	Wall Thic	kness:	cm
Bottom at :	236.22 m			m
		Bott	om at :	m
Perforations				
From (m) To ( 204.22 236	m) (cm)	Slot Leng (cm)	]	interval(cm)
Perforated by	Other			
(-5)				
Annular Seal Cer	0.00 m to	203 30 m	,	
	95.00 Bags		-	
Other Seals	CC.CC Dags			
	/pe		At (	m)
		.1		
Screen Type				
Size OD:	cm			
From (m)	T	o (m)	-	Slot Size (cm)
Attachment				
		Bottom F	ittings	
			33.	
Pack				
		Grain Siz	e	

Con	tractor	Certification	Ī

Name of Journeyman responsible for drilling/construction of well

RICHARD COVERDALE

Company Name MILK RIVER WATER WELL DRILLING Certification No

3836AD

Copy of Well report provided to owner

Date approval holder signed 2024/02/29



# **Water Well Drilling Report**

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.

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. Drilling Company Well ID

9961033 A8307

**GOWN ID** 

Date Report Received 2024/02/29 Well Identification and Location Measurement in Metric Owner Name Address Town Country Postal Code **BLUE GRASS FARMS** P.O. BOX 29 WARNER **ALBERTA** CANADA TOK 2L0 Location 1/4 or LSD SEC TWP RGE W of MER Lot Block Plan Additional Description 2 27 16 5 4 Measured from Boundary of GPS Coordinates in Decimal Degrees (NAD 83) Quarter Latitude 49.409715 \_\_\_\_Longitude \_-112.076466 Elevation 957.00 m 366.00 m from South How Location Obtained 600.00 m from East How Elevation Obtained

		Map			Hand held auto	nomous GPS 20-30m
Additional Inform	ation					Measurement in Metric
Distance From Top	o of Casing to Ground Level	91.44 cm	Is Flow Cor	ntrol Installed		
-	L/min		137 100 001	Describe		
Recommended Pu	ımp Rate	45.46 L/min	Pump Installed		Depth	m
Recommended Pu	imp Intake Depth (From TOC)	121.92 m	Туре	Make		H.P.
					Model (Output	t Rating)
Did you Encount	er Saline Water (>4000 ppm	TDS) Depth	m	Well Disinfected Upo	on Completion Yes	
		Gas Depth	m	Geophysical L	og Taken	
Remedial Action Taken				Submitted	to ESRD	
Additional Comm	ments on Well		Sample C	ollected for Potability	Su	ubmitted to ESRD
RECOMMENDED 2024 IS 43.91 M. U	PUMP RATE & INTAKE DEP	R AND YIELD TEST WATER R PTH, PERFORATION METHOD TES AND ADDED COMMENT F	, AND WATER REI	MOVAL METHOD FOR	YIELD TEST 2024	-03-13. SWL ON JULY 8,
Yield Test				Taken From	Top of Casing	Measurement in Metric
Test Date	Start Time	Static Water Level		Dep	oth to water level	
2024/02/23	12:00 PM	59.74 m	Pun	nping (m)	Elapsed Time Minutes:Sec	Recovery (m)
Method of Water	Removal				0:00	135.64
	Type Other				1:00	131.37 127.41
	Typo Outo		i harmonia de la composición dela composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición dela composición de la composición de la composición dela composición de la composición de la composición dela composición dela composición dela composición dela composición dela compo		2.00	12/171

Yield Test			Taken	From Top of Casing	Measurement in Met
Test Date	Start Time	Static Water Level		Depth to water level	
2024/02/23 12:00 PM 59.74 m			Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
	-			0:00	135.64
Method of Water F	Removal			1:00	131.37
	Type Other			2:00	127.41
Removal	Rate 45.46 L/m	in .		3:00	123.44
		<u></u>		4:00	119.79
Depth Withdrawn F	From 137.16 m	_		5:00	116.43
				6:00	113.39
lf water removal pe	riod was < 2 hours, explain	why		7:00	110.03
				8:00	107.29
				9:00	104.55
				10:00	102.11
				12:00	100.28
				14:00	93.57
				16:00	89.61
				18:00	86.56
				20:00	83.21
				25:00	76.81
				30:00	71.93
				35:00	67.67
				40:00	64.31
				50:00	61.87
				60:00	59.74

Water Diverted for Drilling			
Water Source	Amount Taken		Diversion Date & Time
RESERVOIR	54553.10	L	2024/02/12 8:00 AM

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

RICHARD COVERDALE

Company Name

MILK RIVER WATER WELL DRILLING

Certification No

3836AD

Copy of Well report provided to owner

Date approval holder signed

Yes

2024/02/29



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

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(complete this section for the worst case of the existing facility which is the closest to water bodies or water wells and for each of the proposed facilities)

Facility description / name (as indicated on site plan)

Proposed 1: 39/14 (39/0		NRCB USE ONLY	Meets Comments	□ YES □ NO □ YES with exemption	□ YES □ NO □ YES with exemption	☐ YES ☐ NO ☐ YES with exemption	□ YES □ NO □ YES with exemption	☐ YES ☐ NO ☐ YES with	O YES ONO
10/17	-				☐ YES ☐ CES ☐ CES With Exemption	Tes C	TYES TO YES WITH EXEMPTION	☐ YES ☐ NES With exemption	O YES
d 1:	d 3:		Proposed 3	\   \   \   \   \   \   \   \   \   \					
Propose	Proposed 3:	Facilities	Proposed 2	S1m	0	0	300	2.6 M	2
архиний руку принципальной на принципал		Facilia	Proposed 1	6 ×1 m	0	9	320	2.6 M	2
			Existing	[D >1 m	0	0	250		Z.
699M1S	2: Slucry Took	Facility and environmental risk	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?	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
Existing:	Proposed 2:	Facility		nisiq bool7 noitsm101ni		rtace wat			Srounc inform

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

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



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

					MACE USE ORLY		
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Walver attached (if required)	Meets regulations
Curtis Rosass	SF 20-5-16 1)4	Just m					
Bill Fletchor	NW 19-5-16 WY	5360 m					
C. Fletcher	N/= 34-5-16 WY	2434 m					
Ranchy Kuen	Nu 33 5-16 U4	3307 m					
The state of the s	Annual Section Section Control	A STATE OF THE OWNER,	Control of the Contro			THE REAL PROPERTY AND ADDRESS OF THE PERSON	

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

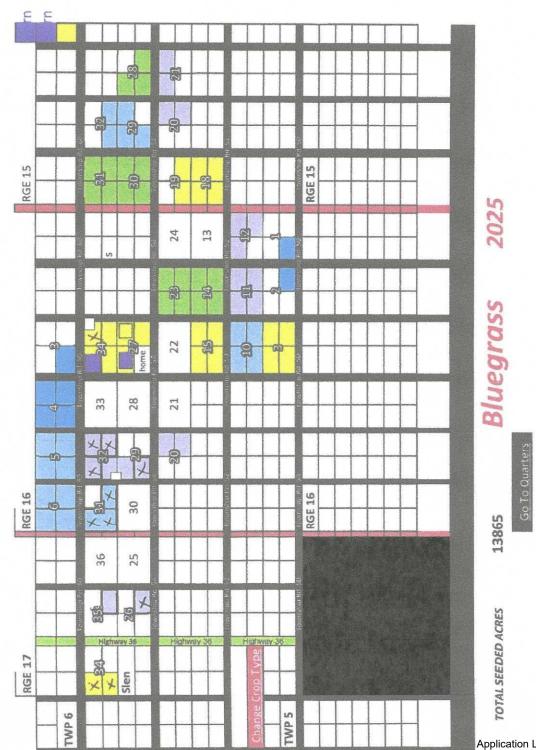
		-	The second secon	NKCB COR ONLY	A CMLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
AO Comment: See next page for land available for	nd available for manure spreading.	ing.			
	of browns remained and calculate properties of special analysis and desired to special and objects to special and objects of the special and objects of the special analysis are not objects to special and objects of the special analysis are not objects to special and objects of the special analysis are not objects to special analysis are not object.		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 Requiations

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

Additional information (attach any additional information as required)



Application LA25051 Page 19 of 39

Name Address Legal Land Location Bluegrass Huiterian Brethren

MDS Spreadsheet based on 2006 AOPA Regulations

Category of Livestock	Type of Livestock	Factor A	Technology Factor	MU	LSU Factor	Number of Animals	LSU
Feedlot	Beef Cows/Finishers (900+ lbs)	0.700	0.700	0.910	0.4459		
Animals	Beef Feeders (450 - 900 lbs)	0.700	0.700	0.500	0.2450		
	Beef Feeder Calves (<550 lbs)	0.700	0.700	0.275	0.1348	all of standard and	
	Horses - PMU	0.650	0.700	1.000	0.4550		-
	Horses - Feeders > 750 lbs	0.650	0.700	1.000	0.4550		
	Horses - Foals < 750 lbs	0.650	0.700	0.300	0.1365	-	-
	Mules	0.600	0.700	1.000	0.4200		
	Donkeys	0.600	0.700	0.670	0.4200		
	Bison	0.600	0.700	1.000	0.4200	The same of the	
		0.000	0.7001	1.0001	0.4200		
Dairy (*count	Free Stall – Lactating Cows with all associated dries, heifers, and calves*	0.800	1.100	2.000	1.7600	340	616.
lactating cows only)	Free Stall – Lactating Cows with Dry Cows only*	0.800	1.100	1.640	1.4432		5
	Free Stall - Lactating Cows only	0.800	1,100	1.400	1.2320		
	Tie Stall - Lactating Cows only	0.800	1.000	1.400	1.1200		
		0.800	1.000	1.400	1.1200		-
	Loose Housing – Lactating Cows only Dry Cow	0.800	0.700	1.000	0.5600		
	Replacements – Bred Heifers (Breeding to Calving)	0.800	0.700	0.875	0.4900		
	Replacements - Growing Heifers (350 lbs to breeding)	0.800	0.700	0.525	0.2940		
	Calves (< 350 lbs)	0.800	0.700	0.200	0.1120		-
Swine	Farrow to finish *	2.000	1,100	1.780	3,9160	600	2,349.0
	Farrow to wean *	2.000	1.100	0.670	1.4740		-
Swine Liquid (*count	Farrow only *	2.000	1,100	0.530	1.1660		-
	Feeders/Boars	2.000	1.100	0.200	0,4400		-
come omy)	Growers/Roasters	2.000	1.100	0.118	0.2600		-
	Weaners	2.000	1.100	0.055	0.1210		
Swine	Farrow to finish *	2.000	0.800	1.780	2.8480		
Solid	Farrow to wean *	2.000	0.800	0.670	1.0720		
(*Count	Farrow only *	2.000	0.800	0.530	0.8480		(+)
sows only)	Feeders/Boars	2.000	0.800	0.200	0.3200		-
	Growers/Roasters	2.000	0.800	0.118	0.1888		
	Weaners	2.000	0.800	0.055	0.0880		-
		4.000	0.700	0.040	0.0070		-
Poultry	Chicken - Breeders - Solid	1.000	0.700	0.010	0.0070		
	Chicken - Layers - Liquid (includes associated pullets)	2.000	1.100	0.008	0.0176		
	Chicken - Layers - (Belt Cage)	2.000	0.700	0.008	0.0112	300	3.
	Chicken - Layers - (Deep Pit)	2.000	0.700	0.008	0.0112		
	Chicken - Pullets/Broilers	1.000	0.700	0.002	0.0014	1 500	1.
	Turkey - Toms/Breeders	1.000	0.700	0.020	0.0140		-
	Turkey - Hens (light)	1.000	0.700	0.013	0.0091		-
	Turkey - Broilers	1.000	0.700	0.010	0.0070		2.
	Ducks	1.000	0.700	0.010	0.0070	1,500	10.
	Geese	1.000	0.700	0.020	0.0140		4.
Observational	Chara Fundipara	0.600	0.700	0.200	0.0840		
	Sheep - Ewes/Rams	0.600	0.700	0.250	0.1050	-	
Sheep and Goats	Sheep - Ewes with lambs Sheep - Lambs	0.600	0.700	0.050	0.0210		-
	Sheep - Feeders	0.600	0.700	0.100	0.0420		
	Goats - Meat/Milk (per Ewe)	0.700	0.700	0.170	0.0833		
	Goats - Nannies/Billies	0.700	0.700	0.140	0.0686		_
	Goats - Feeders	0.700	0.700	0.077	0.0377		S4-1100M
Cervid	Elk	0.600	0.700	0.600	0.2520	and the same and	
	Deer	0.600	0.700	0.200	0.0840	-	
Alid Deer	Foodors	2,000	0.000	0.140	0.2240		
Wild Boar	Feeders	2.000	0.800	0.140	0.2240	and the same	
	Sow (farrowing)	2.000	0.000	0.371	0.0500	STREET, SQUARE, SQUARE	

2,987.2

For New Operations
Dispersion Factor

		Distance		
Category	Odour Objective	Feet	Metres	
1	41.04	2,498	762	
2	54.72	3,331	1,015	
3	68.4	4,164	1,269	
4	109.44	6,662	2,031	

For Expanding Operations
Dispersion Factor
Expansion Factor

		Distance		
Category	Odour Objective	Feet	Metres	
1	41.04	1,924	586	
2	54.72	2,565	782	
3	68.40	3,206	977	
4	109.44	5,130	1,564	

Bluegrass Hutterian Brethren

Name Address Legal Land Location

0

0

Category of Livestock		Number of Animals	Dark Brown & Brown (ha)	Grey Wooded (ha)	Black (ha)	Imigated (ha)
Feedlot	Cows/Finishers (900+ lbs)	0.0	0.0	0.0	0.0	0.0
Animals	Feeders (450 - 900 lbs)	0.0	0.0	0.0	0.0	0.0
	Feeder Calves (<550 lbs)	0.0	0.0	0.0	0.0	0.0
	Horses - PMU	0.0	0.0	0.0	0.0	0.0
	Horses - Feeders > 750 lbs Horses - Foals < 750 lbs	0.0	0.0	0.0	0.0	0.0
	Mules	0.0	0.0	0.0	0.0	0.0
	Donkeys	0.0	0.0	0.0	0.0	0.0
	Bison	0.0	0.0	0.0	0.0	0.0
	Grade 1985, Comp. 1992 Assert Comp.	0.0	V.5	-	V.C	0.5
Dairy		350.0	519.8	433.0	324.8	259.7
(*count	Free Stall – Lactating Cows with all associated dries, heifers, and calves*	20	0.0	0.0	0.0	0.0
lactating cows only)	Free Stall – Lactating Cows with Dry Cows only *	0.0	0.0	0.0	0.0	0.0
	Free Stall – Lactating Cows only* Tie Stall – Lactating Cows only	0.0	0.0	0.0	0.0	0.0
	rie Stall – Lacialing Cows only	0.0	0.0	0.0	0.0	0.0
	Loose Housing – Lactating Cows only	0.0	0.0	0.0	0.0	0.0
	Dry Cow (Solid manure)	0.0	0.0	0.0	0.0	0.0
	Dry Cow (Liquid manure)	0.0	0.0	0.0	0.0	0.0
	Replacements – Bred Heifers (Breeding to Calving)	0.0	0.0	0.0	0.0	0.0
	Replacements - Growing Heifers (350 lbs to breeding)	0.0	0.0	0.0	0.0	0.0
	Calves (< 350 lbs)	0.0	0.0	0.0	0.0	0.0
Swine	Farrow to finish *	600.0	401.0	334.2	250.7	200.5
	Farrow to wean *	0.0	0.0	0.0	0.0	0.0
Swine Liquid (*count sows only)	Farrow only *	0.0	0.0	0.0	0.0	0.0
	Feeders/Boars	0.0	0.0	0.0	0.0	0.0
	Growers/Roasters	0.0	0.0	0.0	0.0	0.0
	Weaners	0.0	0.0	0.0	0.0	0.0
Swine	Farrow to finish *	0.0	0.0	0.0	0.0	0.0
Solid	Farrow to minish Farrow to wean *	0.0	0.0	0.0	0.0	0.0
(*Count	Farrow only *	0.0	0.0	0.0	0.0	0.0
sows only)	Feeders/Boars	0.0	0.0	0.0	0.0	0.0
	Growers/Roasters	0.0	0.0	0.0	0.0	0.0
	Weaners	0.0	0.0	0.0	0.0	0,0
		0.0				
Poultry	Chicken - Breeders - Solid	0.0	0.0	0.0	0.0	0.0
	Chicken - Layers - Liquid (includes associated pullets)	0.0	0.0	0.0	0.0	0.0
	Chicken - Layers - (Belt Cage)	300.0	1.7	1,4	1.0	0.8
	Chicken - Layers - (Deep Pit)	0.0	0.0	0.0	0.0	0.0
	Chicken - Pullets/Broilers	1000.0	3.3 0.0	2.7 0.0	2.0 0.0	1.6 0.0
	Turkey - Toms/Breeders Turkey - Hens (light)	0.0	0.0	0.0	0.0	0.0
	Turkey - Heris (light) Turkey - Broilers	300.0	1.6	1.3	1.0	0.8
	Ducks	1500.0	2.4	2.0	1.5	1.2
	Geese	300.0	1.0	0.8	0.6	0.5
		0.0				
Goats and	Sheep - Ewes/Rams	0.0	0.0	0.0	0.0	0.0
Sheep	Sheep - Ewes with lambs	0.0	0.0	0.0	0.0	0.0
	Sheep - Lambs	0.0	0.0	0.0	0.0	0.0
	Sheep - Feeders	0.0	0.0	0.0	0.0	0.0
	Goats - Meat/Milk (per Ewe)	0.0	0.0	0.0	0.0	0.0
	Goats - Nannies/Billies Goats - Feeders	0.0	0.0	0.0	0.0	0.0
	Goals - reedels	0.0	0.0	0.0	0.01	0.0
Cervid	Elk	0.0	0.0	0.0	0.0	0.0
Carvia	Deer	0.0	0.0	0.0	0.0	0.0
		0.0				
Wild Boar	Feeders	0.0	0.0	0.0	0.0	0.0
	Sow (farrowing)	0.0	0.0	0.0	0.0	0.0
		0.0				

Total Hectares	931	775.3	581.6	465.2
Total Acres	2 200	1015.9	1/27.2	11/0 /



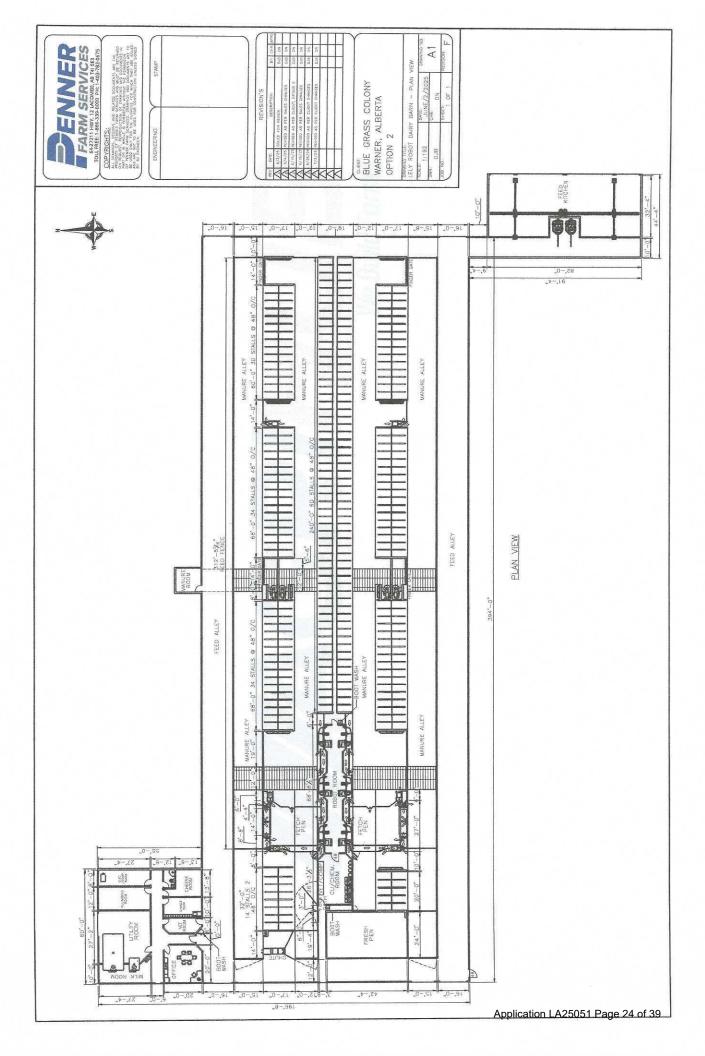
Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area and/or manure storage facility(ies)

	name (as indicated on		I manure storage facility wi	
	the Common in the	3.	and a second	
Length (m) (128 m)	Width (m) (45.7 m)	Total depth (m)	Depth below ground level (m)	Calculated storage capacity (m3)
420 F4	150 F4	12 Ft	1d Ft (3.7	m)
4.9	4.9	3.7	3.7	
			TOTAL CAPACI	TY
crete liner details				
icrete imer details	Concrete thickness		Method of sulph	ate protection
Scrape alleys or inslatted portions of barn floors (if applicable)	7 inches	25	Concrete Keinfor	rcement size and spacing
	Concrete thickness		Method of sulph	nate protection
In-barn manure pit	Concrete strength		Concrete reinfo	Type 50 rement size and spacing
1,0010	Mps 2	32	2	12 × 12
	Concrete thickness		Method of sulph	nate protection
In-barn manure pit walls	Concrete strength	and s	ontal reinforcement size pacing	Type 50  Vertical reinforcement size and spacing
	Mpg 32	3	12 2012 11	2 12×12"



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 STORA  Describe how the joints at the junction of the pit walls, pit floor		cont.)
With a Vale land the pit walls, pit noor	ther Stop	
Describe sealing practices for piping, etc. that penetrates the ling Pipe Use IIn/C seal with S.S. hardwin		
	NRCB USE ONLY	
Concrete requirements can be found in Technical Guideline Agdex 096-93 Guideline minimums: 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	Requirements met: Condition required:	
Type 30 or Type 10 min by 65% or equivalent		
NRCB USE ONLY		
Liquid manure storage volume calculator attached: $\square$ YES $\square$		
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:	NO If yes, please explain why	
Last updated: 31 Mar 2020		Page of
NRC8	USE ONLY	





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

LIQUID MAN	URE STORAGE:	Concrete	or steel tank	(required to	be engineered)
------------	--------------	----------	---------------	--------------	----------------

complete a copy of this section			or liquid manure) 114 Tank				
Facility description / name	as indicated on site		114 1411/2	The second secon			
Manure storage capacity							
Dimensions (or length		Donth holess are and	NRCB USE ONLY				
and width / diameter) (m) (75.6 m)	Depth (m) (4.9 m)	Depth below ground level (m) (1.8 m)	Calculated storage capacity (excl. 0.5 m freeboard) (m³)	Filled in lower ¼? Y/N			
1. 248 Ft	16 Ft	6 Ft					
2.							
All Wate is	Directed	to the Sto	rm Pond				
Concrete or steel tank detail	ete thickness	Me	thod of sulphate protection				
Manure tank floor Conci	rete strength		Type 50 ncrete reinforcement size and spa	) ncing			
Manure storage tank walls: pr	35 mg	construction of the propo	sed manure storage tank walls				
12" thick	( Wall	S					
Last updated: 31 Mar 2020				Page of			

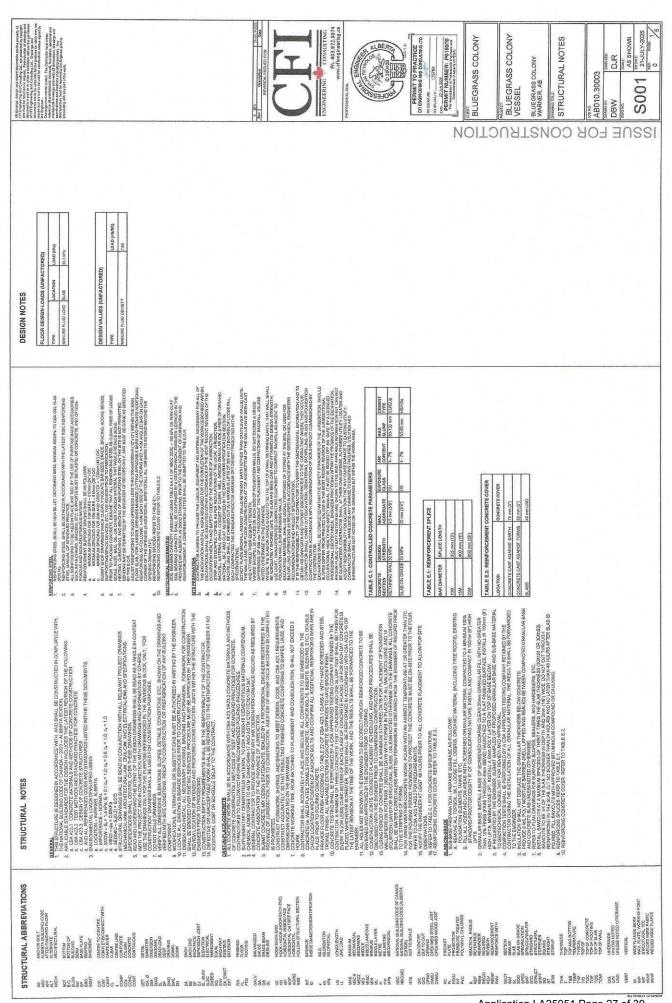
NRCB USE ONLY

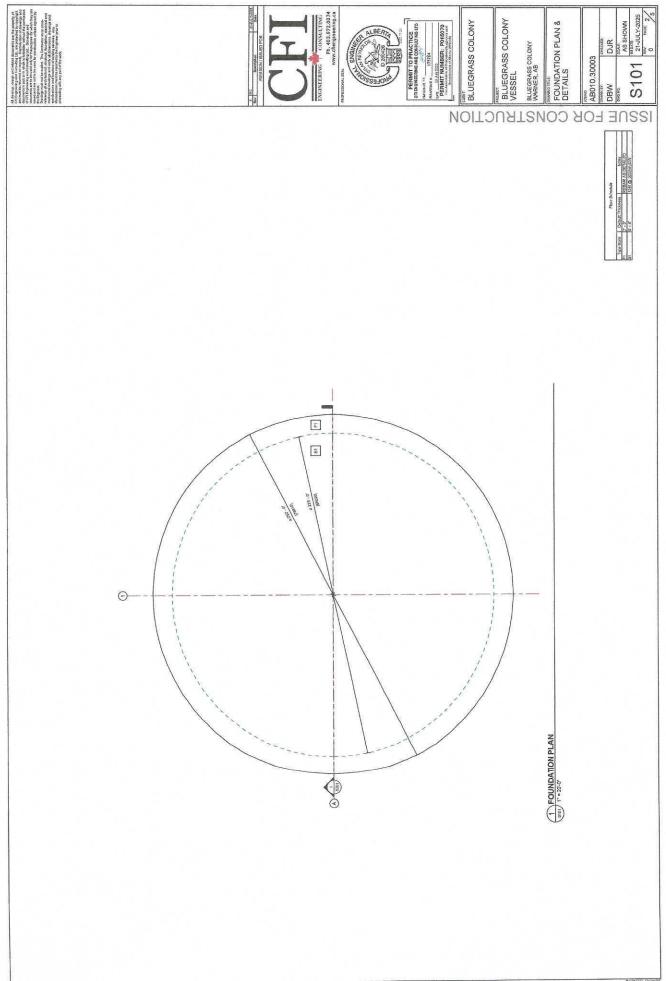


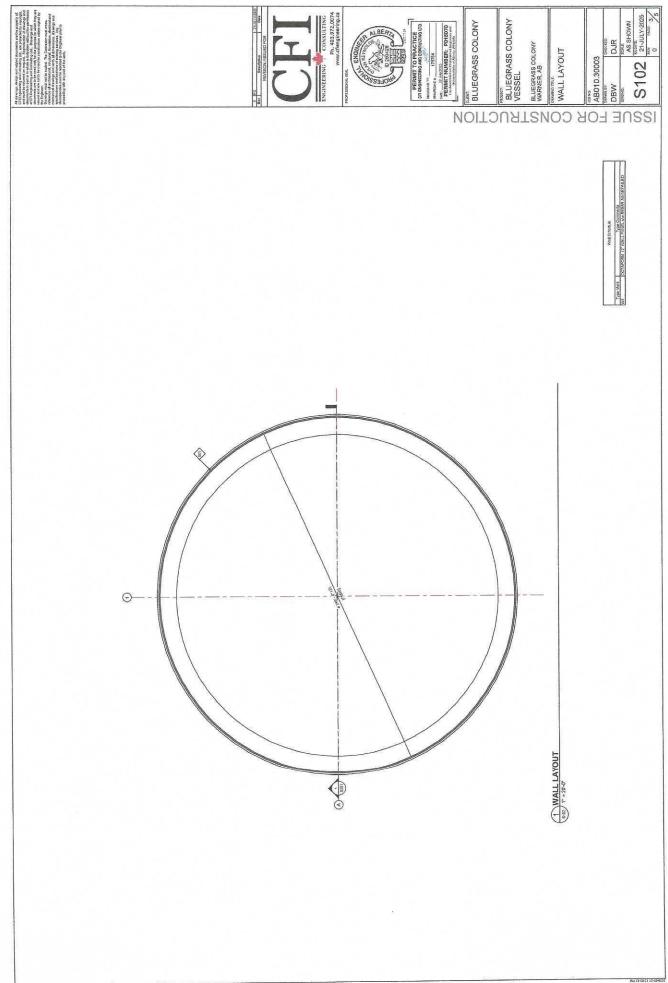
Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area and/or manure storage facility(ies)

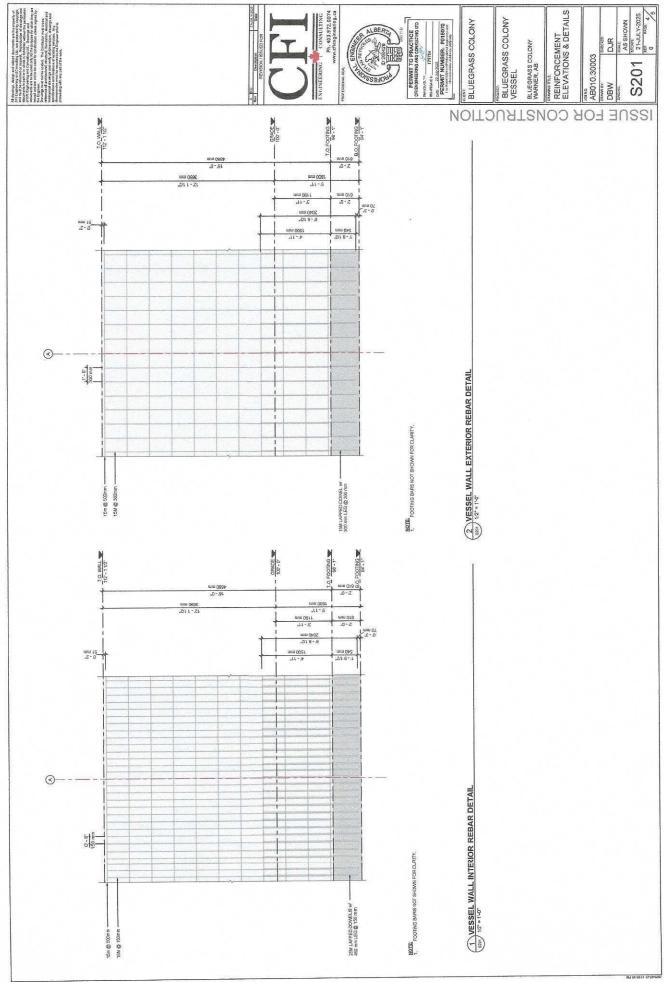
Describe sealing practices for piping, etc. that penetrates the liner    INK sec	IQUID MANURE STORAGE: Concrete o	r steel tank (cont.)	
NRCB USE ONLY Requirements met:   YES   NO Condition required:   YES   NO Report attached:   YES   NO Report attached:   YES   NO Report attached:   YES   NO Report attached:   YES   NO Requirements met:   YES   NO Requ	Describe sealing practices for piping, etc. that penetr	rates the liner	
NRCB USE ONLY   Requirements met:   YES   NO   Condition required:   YES   NO   Report attached:   YES   NO   Report attached:   YES   NO   No   Report attached:   YES   NO   No   No   No   No   No   No   No			
NRCB USE ONLY Requirements met:   YES   NO Condition required:   YES   NO Report attached:   YES   NO Report attached:   YES   NO Report attached:   YES   NO Report attached:   YES   NO Requirements met:   YES   NO Requ	Linkseal with SS. H.	ardwire	
Requirements met:	Describe how the joints at the junction of the tank w	ralls, tank floors and any other joints will be seale	d
Requirements met:			
RCB USE ONLY   Quid manure storage volume calculator attached:	1155 1/-1-1		
Condition required:	USE VOTETAL	NRCB USE ONLY	
Report attached:	,	Requirements met:	☐ YES ☐ NO
IRCB USE ONLY  Iquid manure storage volume calculator attached:		Condition required:	☐ YES ☐ NO
Adulti manure storage volume calculator attached:		Report attached:	☐ YES ☐ NO
Aguirements met:			
Adulti manure storage volume calculator attached:	UDCD LICE ONLY		
Depth to water table: Requirements met: YES NO Depth to uppermost groundwater resource: Requirements met: YES NO  RRST completed: see ERST page for details  Surface water control systems Requirements met: YES NO Details/comments:  Concrete or steel tank requirements Reakage detection system required: YES NO If yes, please explain why.		☐ YES ☐ NO	
Requirements met:			☐ YES ☐ NO
SerST completed: see ERST page for details  Surface water control systems  Lequirements met: YES NO Details/comments:  Concrete or steel tank requirements  Leakage detection system required: YES NO If yes, please explain why.			
Requirements met:			
Concrete or steel tank requirements  Leakage detection system required:	ERST completed:  see ERST page for details		
Concrete or steel tank requirements  Leakage detection system required: YES NO If yes, please explain why.	Surface water control systems		
Leakage detection system required: YES NO If yes, please explain why.	Requirements met: YES NO	Details/comments:	
Leakage detection system required: YES NO If yes, please explain why.			
Leakage detection system required: YES NO If yes, please explain why.	Concrete or steel tank requirements		
		☐ YES ☐ NO If yes, please	explain why.
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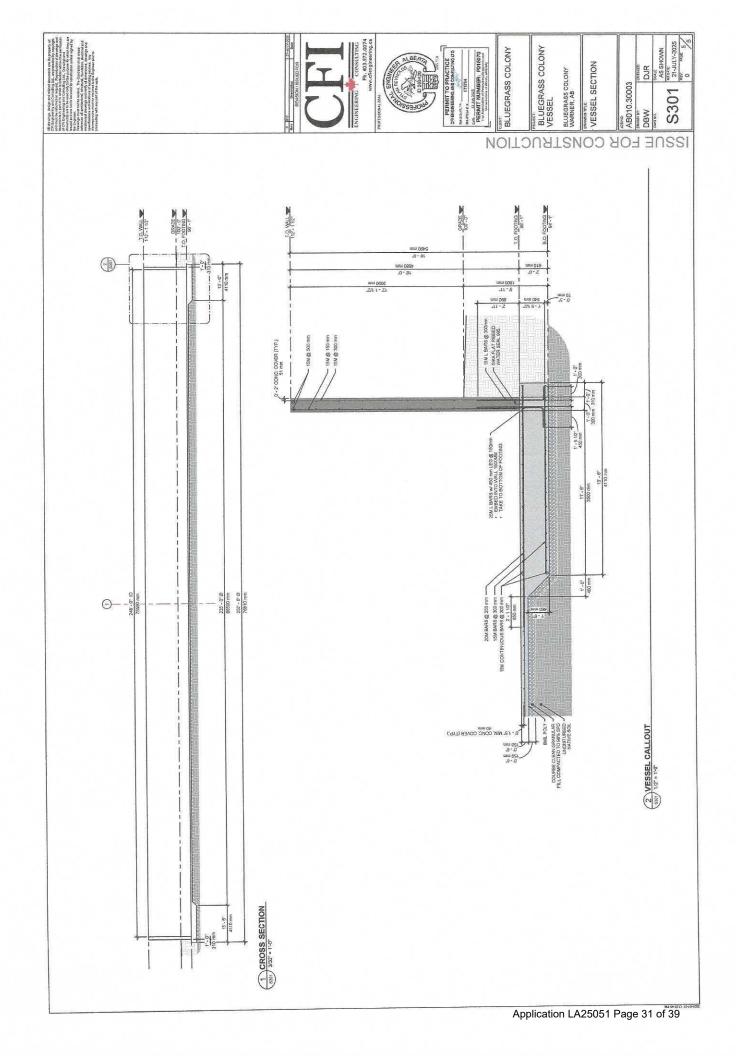
NRCB USE ONLY











BOX 942 COALDALE, ALBERTA TOKOLO TIME - MA 8
TELEPHONE: (403) 345-4951-37/0

Hole Number	Location	Depth (m)	Texture	Moisture	Geological Unit	Sample	Remarks
#/	νω	corner	of sec	Je 50	6000.		
	5W27-5-16-4	0-0.3	cL	F	Topsoil		
		03-0.6	1	19	7:11		
	SEOF COINCE	0.6-0.9		li		0.6-3.0	Trace soud, pelib
		0.9-1.2	V				
		1.2-1.5	CL	1	1		
		1.5-2-0		M	T:11		gypsum sol7s M
		2.0-3.0	V	1	1		U. Firm - stiff
		3.0-4.5	CL	M		1.0-9.0	stiff ironstains
		4.5-7.8	CL	M			(001 ch: ps
		7.8-9.2	CL	M		a few	small sot sand
							streefes .
72	5427-5-16-4	0-0.3	CL	1=	Tupsoil		
	=40 apreters			0	Till		V. Firm-
Suppose services	SW OF NE	06-09		M		0-6-3.0	U. firm-stiff, con
	Corner	0.9-1.2					chips, gypsum so
		1.2-1.5.		1			Firm-V. Firm
		1.5-3.0	V	M	T:11		medpl
		20-4.7	FSL	UM-SIT	1/_	3-0-4.5	-stones
		4-7-6.0	CL	14			grave//4
		6.0-9.2	4	V	1		Procks
*							
<b>=3</b>	5027-5-16-4	0-0.3	CL	F	Topsoil		
	40 wasters	0.3-0.6		M	Till		
	NW OF SE	0.6-0.9			-		V.Firm
	Corner	0.9-1.2					& medplust
		1.2-1.5	1	14			57, FF, pc 66/es
		1.5-7.0	& LL	M		1.5-4.5	1 (00)
		2.0-4.5	1				Chi
		4.5-60				4-5-8.2	
		6.0-7.5					
		7.5-4.2		1			1 4 4 4

BOX 942 COALDALE, ALBERTA TOK OLO TELEPHONE: (403) 345-4051

Hole Number	Location	Depth (h)	Texture	Moisture	Geological Unit	Sample	Remarks
4	5w27-5-16-4	0-0.3	CL	F	Tupsoil	1	
	≈ 40 Appeters		1	0	T:11		
	NE OF SW						
	1	0.9-1-2		14			4. Firm med, plasti
	1	1.2-1.5		M			4 1
		1.5-3.0	$\vee$			1.5-8.6	U.firm-stiff
		3.0-4.5	CL		V		V, Trace sand
		4.5-6.0		M	Till		stiff, stones
		6.0-7.5		11	1		'
		7.5-9-2		14-	1		1 1
		7		<u> </u>	<u></u>		
5	5027-5-16-4		cl	F	Topsoil		
	2 32 greters	1	1	10	T:11		
	Swo F Hole	1	_	10	1-1-		1
	#2	0.9-1.2		M			V. Firm med pla
		1-2-1-5		11			
		1.5-7.0	CL				
		3.0-4.5	4 3	14	14		stiff pebblos
		4.5-6.2	CL	M	Till		
			a Few	send :	strecks	4.5-6.2	(mist) (minor
		2		1	/		
6	23 Meters South	1	9	10	Topsoil		
	0F #2	03-0.6		17	7:11		
	5627-5-16-4	06-0.9		+			v.f., -57. f.f
		0.9-1.2		1	+-		
		1.2-1.5	¥	IM	1		med place
		1.5-3.0	CL	I M	77/1		1.56
		3.0-3.3	4	14			57iff V
		3-3-3.8	SL	VM	++-		120
		3.5-4.5	u	M	+4		STIFF mad ploses
				-	-		
		1	L			Application L	A25051 Page 33 of 39

BOX 942 COALDALE, ALBERTA TOK-OEO TIM -/M & TELEPHONE: (403) 345-4651 } 7/0

Hole Number	Location	Depth	Texture	Molsture	Geological Unit	Sample	Remarks
7	sw27-5-16-4	0-03	CL	F	Tansil		
	1990000	1		0	+:11		
	SWOF NW	0.6-0.9			1		V. Firm, mad plastic
	corner.	0.5-1.2		1			57iff
	Primary lagoon	1.2-1.5		M			4
	) ' '	1.5-2.6	CL	M	Till	1.5-45	57.FF
		2.6-3.0	a	VM			U.Firm
		1.0-1.4	1*	1	7:11		* Send lenses in Till
		3-4-4.2		M			U. Firm, pebbles
		4.2-4.5	X	5.7			* Course Sand longers
		4.5-6.0	CL	M	Till		
		6.0-7.5	4	M-VH	1		Truce, soud
		7.5-8.6	4	1	Till		
		8.6-9.2	FSL	SOT	1		
8	w27-5-16-4	0-0.3	CL	K	Topsoil		
	sw of #7		1	2	Till		
	by 26 spectors	1					
	/ /	0.9-1.2					
		1.2-1.5	1				V. Firm med platt.
100000000000000000000000000000000000000		1.5-3.0	CL	SM	Till		Stiff 1
		1.0-4.5				30-8.0	
		4.5-60					
		6.0-7.0					
		1.0-8.0					1
		8-6-9-0		1	1		V. ST. F. F. gray
				-	<b> </b>		-
				-			
				1			
Manager W. M. Properties and Spirit and American Spiriters and Spiriters							

BOX 942 COALDALE, ALBERTA TOKOLOTIM - IMS TELEPHONE: (403) 345-495+37/0

Hole Number	Location	Depth	Texture	Molsture	Geological Unit	Sample	Remarks
9	5627-5-16-4	0-0.3	CL	F	Topsi.1		
	36 metricke			0	九川		
	058	0.6-0.9			)		
		0.9-1.2					
		1.2-1.5	1				STIFF, med plasti
		15-30	CL	M	Till		
		3-0-4.5			<u> </u>	3.0-9-0	
		4.5-6.0					
		6.0-7.5	1				
		7.5-9.2	CL	1	1		
10	5627-5-16-4	0-0-3	CL	F	Topsoil		
	28 year Tens SW	1		0	Topsoil Till		
	of 9	0-6-0.9		11			
		0-9-1-2		1			
		1.2-1.5	4	14			
		1.5-2.0	CL	1		1.5-30	Trace sand U. Fire
		2.0-2.3		VM			Firm
		23-42	1	M	11		V. Fix
		4-2-5.1	54	SuT	T:11	4.2-5-/	soft clay lenses
		5.1-6.3	CL	M	11		STIFF
		6-7-7.2	SCL	507	1		50FT
		7.2-9.2	C	M	7111		5+, ++
					1		
					1		
				-	-		
					-		
					-		
						-	

BOX 942 COALDALE, ALBERTA TOK OLOTIM-IM8 TELEPHONE: (403) 345-4954 37/0

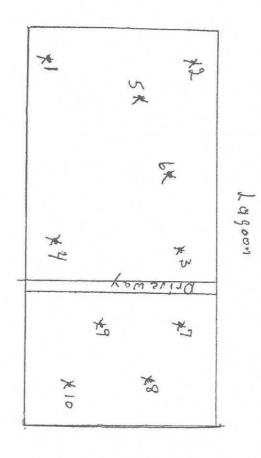
Hole Number	Location	Depth	Texture	Molsture	Geological Unit	Sample	Remarks
//	5627-5-16-4	0-0.3	(4	F	Tupsoil		
,,	245 meters	0-3-0.6		n	T:11		
	NW OF SE	0.6-0.9					
	corner of	0.9-1.2					
	Resevoiur	1.2-1.5	V	1			stiff
		1.5-2.8	25	M	7111		1
		2.8-4.8	CL	M	ナル	2-8-4-8	stiff, Trace son
							tyrave
		4.8-6.9	M-SL	Sat	ナナリ		Tracegravel
		6.9-7-5	<u> </u>	M	1		57, FF
12	5627-5-16-4	0-0.3	C6	F	Topsoil		
*	238 Meters	0.3-0-6		0	TIL		
16	45w of 11	0.6-0.9					
Access to the second se		0.9-1.2		1			
	-	1-2-1-5		M	1		stiff, low plastic
A SHIP SHAPE		1.5-21	CL		Till		stiff, low plastic
		2-1-3-0	1		1	med-	V-Firm, Trace son
		3.0-4.5	CL	M	1	Plastic	V-firm, Trace son
/3	5627-5-16-4	0-0-3	cL	E	Topsoil		
	Cometers	0.3-0.6		10	1711		
	N-NW OF12	0.6-0.9		11	1		Trace sand
		0.9-1.2					
		1-2-1-5	1	5M	1		V U. firm
		1.5-1.0	CL	M	Till		Tracesand
Allon		3.0-45	V	1	11	1.0-4.5	1 1
		4.5-6.2	CL-C	SM	12		stiff, rocks

BOX 942 COALDALE, ALBERTA FOK OLOTIM - IM 8 TELEPHONE: (403) 345-496-1 37/0

Hole Number	Location	Depth	Texture	Moisture	Geological Unit	Sample	Remarks
14	36027-5-16-4	0-0.3	CL	F	Tunsoil		
		0-3-0,6		0	7711		
		0.6-0.9					
	1	0-9-1.2		1			
		1.2 7-5	4	SM		NAME OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	SFF
		1-5-3-0	CL	M	Till		V high plastic
		3.0-4-5	CL				Clay leyers
		4-5-5.8	CL	1			
		5.8-6.2	54	SET	4		
15	5427-5-16-4	0-0.3	CL	F	Tup soil		
	€ 5/meTers	03-0-6		F	Till		
	SE OF NW	0.6-0.9		0	1		stiff
	corner	0.97.2	1	0			
		1.2-1.5	CL	5M			V .
		1.5-3.0	4			11.5-2	o) soul lenses ()
		3.0-45					57: 45
		4.5-62	1	1	V		+
16	56127-5-16-4	0-0.3	CL	F	Topsoil		
7	265 meters			10	1711		
	50F15	1		0			
		0.9-1.2	1	M			STIFF, raks
		1.27-5	CL				1 1
		1.5-1.0	1				
		3.0-4.5	1	11	V		V
		4.5-4.8	SCL	UNISOT	Till		soFT
		4.8-62	CL	M	14		some grave!
-							
						Land to the same of the same o	

BOX 942 COALDALE, ALBERTA TOK OLOTIM-IM8 TELEPHONE: (403) 345-49513710

Hole Number	Location	Depth	Texture	Molsture	Geological Unit	Sample	Remarks
17	5027-5-16-4	0-0.3	CL	F	Typso:1		
	250 meters	0.3-0.6		1	Till		
	SOUTH OF 16	0.6-0.9		12			
		0.9-1.2.	1	M			Firm-U. Firm
		1-2-1-5	CL				
		1.5-1.0	CC				
		3.0-4.5	CL	1			1 1
		4.5-4.8	SCL	SaT			
		4.8-6.2	54	M	V	-	loose
		1					
					-		
<u></u>							



West