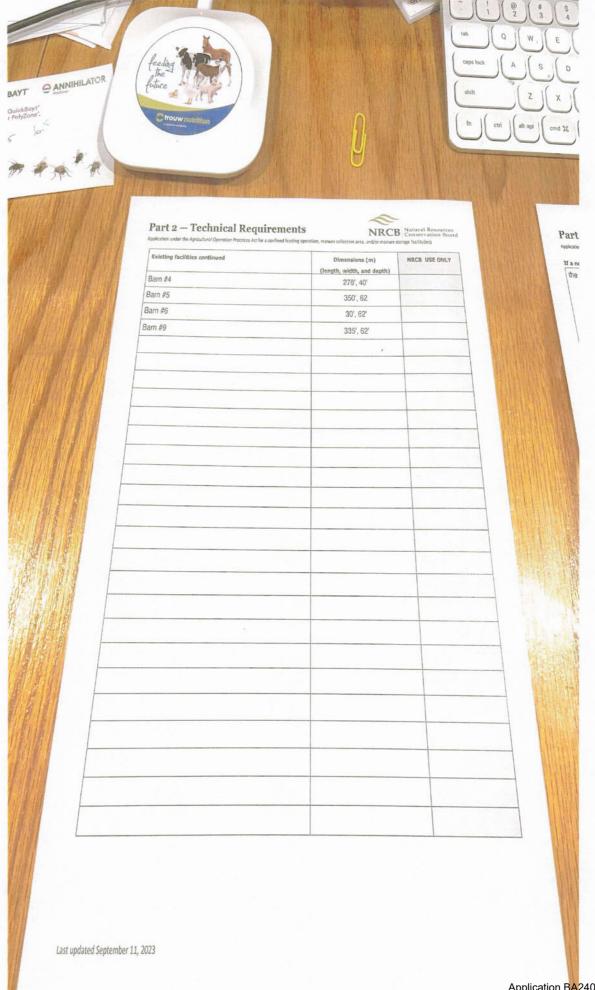
### **Technical Document BA24019**

### Part 2 — Technical Requirements



NRCB USE ONLY	Application number L	egal land description
☐ Approval ☐ Registration ☒ Authorization ☐ Amendment	BA24019 SE	27-61-3 W5M
APPLICATION DISCLOSURE		
This information is collected under the authority of the a provisions of the Freedom of Information and Protection written request that certain sections remain private.	Agricultural Operation Practices Act (AOPA), as of Privacy Act. This information is public unle	nd is subject to the sss the NRCB grants a
Any construction prior to obtaining an NRCB perm prosecution.	it is an offence and is subject to enforcer	nent action, including
I, the applicant, or applicant's agent, have read and uno provided in this application is true to the best of my kno	derstand the statements above, and I acknow wledge.	ledge that the information
December 23, 2024		
Date of signing	Signature	
Tiemstra Poultry Ltd	Benjamin Tiemstra	
Corporate name (if applicable)	Print name	
GENERAL INFORMATION REQUIREMENTS		
Proposed facilities: list all proposed confined feeding proposed facilities are additions to existing facilities. (		licate whether any of the
Proposed facilities		Dimensions (m) ength, width, and depth)
Proposed Rooster Barn		104', 62'
		32 m x 19 m
Existing facilities: list ALL existing confined feeding	operation facilities and their dimensions	
Existing facilities	Dimensions (m) (length, width, and depti	NRCB USE ONLY
Barn #1	250', 42,	
Barn #2	252', 40'	
Barn #3	250', 40'	
NRCB USE ONLY		
	050	
Confirmed existing	J CFO	





a new facility is replacing an old facility, please			£ = = = = = = : : H = 4 =
ne new rooster barn will replace our rooster	pen, which will be con	nverted into more space	tor our pullets.
nstruction completion date for proposed facili	Dec 31, 2026		
ditional information			
Livestock numbers: Complete only if livestock num	bers are different from who , a new Part 1 application r	at was identified in the Part 1 :	application. Note: i
Livestock numbers: Complete only if livestock num ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS).	bers are different from who , a new Part 1 application r	at was identified in the Part 1 and the submitted which may	application. Note: i
ivestock numbers increase in your Part 2 application,	bers are different from what, a new Part 1 application r	Proposed increase or decrease in number (if applicable)	application. Note: i 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	, 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)  Broiler Breeder Layers	Permitted number	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)  Broiler Breeder Layers	Permitted number	Proposed increase or decrease in number (if applicable)	Total
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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

OPTION 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 development or activity proposed in this AOPA application.  2. I (we) request that the NRCB process the AOPA application independently of EPA's CFO's application for a water licence.  3. In making this request, I (we) recognize that, if this AOPA application is granted by NRCB's decision will not be considered by EPA as improving or enhancing the CFO's water licence under the Water Act.  4. I (we) acknowledge that any construction or actions to populate the CFO with livested AOPA permit in the absence of a Water Act licence will not be relevant to EPA's consistency whether to grant the Water Act licence application.  5. I (we) acknowledge that any such construction or livestock populating will be at the the Water Act licence application is denied or if the operation of the CFO is otherwise violation of the Water Act. This risk includes being required to depopulate the CFO afurther construction, or to remove "works" or "undertakings" (as defined in the Water Act Backnowledge that the CFO is located in the South Saskatcher.	plicant or Agent  Water Act for the
<ol> <li>I (we) acknowledge that the CFO will need a new water licence from EPA under the development or activity proposed in this AOPA application.</li> <li>I (we) request that the NRCB process the AOPA application independently of EPA's CFO's application for a water licence.</li> <li>In making this request, I (we) recognize that, if this AOPA application is granted by NRCB's decision will not be considered by EPA as improving or enhancing the CFO's water licence under the Water Act.</li> <li>I (we) acknowledge that any construction or actions to populate the CFO with livested AOPA permit in the absence of a Water Act licence will not be relevant to EPA's considered by acknowledge that any such construction.</li> <li>I (we) acknowledge that any such construction or livestock populating will be at the the Water Act licence application is denied or if the operation of the CFO is otherwise violation of the Water Act. This risk includes being required to depopulate the CFO a further construction, or to remove "works" or "undertakings" (as defined in the Water Act.</li> </ol>	Water Act for the
<ol> <li>I (we) acknowledge that the CFO will need a new water licence from EPA under the development or activity proposed in this AOPA application.</li> <li>I (we) request that the NRCB process the AOPA application independently of EPA's CFO's application for a water licence.</li> <li>In making this request, I (we) recognize that, if this AOPA application is granted by NRCB's decision will not be considered by EPA as improving or enhancing the CFO's water licence under the Water Act.</li> <li>I (we) acknowledge that any construction or actions to populate the CFO with livested AOPA permit in the absence of a Water Act licence will not be relevant to EPA's considered by acknowledge that any such construction.</li> <li>I (we) acknowledge that any such construction or livestock populating will be at the the Water Act licence application is denied or if the operation of the CFO is otherwise violation of the Water Act. This risk includes being required to depopulate the CFO a further construction, or to remove "works" or "undertakings" (as defined in the Water Act in the Water Act in the Water Act in the Water Act in the Water Act.</li> </ol>	Water Act for the
<ol> <li>development or activity proposed in this AOPA application.</li> <li>I (we) request that the NRCB process the AOPA application independently of EPA's CFO's application for a water licence.</li> <li>In making this request, I (we) recognize that, if this AOPA application is granted by NRCB's decision will not be considered by EPA as improving or enhancing the CFO's water licence under the Water Act.</li> <li>I (we) acknowledge that any construction or actions to populate the CFO with livested AOPA permit in the absence of a Water Act licence will not be relevant to EPA's considered by acknowledge that any such construction.</li> <li>I (we) acknowledge that any such construction or livestock populating will be at the the Water Act licence application is denied or if the operation of the CFO is otherwise violation of the Water Act. This risk includes being required to depopulate the CFO a further construction, or to remove "works" or "undertakings" (as defined in the Water Works" or "undertakings" (as defined in the Water Works")</li> </ol>	Water Act for the
<ol> <li>I (we) request that the NRCB process the AOPA application independently of EPA's CFO's application for a water licence.</li> <li>In making this request, I (we) recognize that, if this AOPA application is granted by NRCB's decision will not be considered by EPA as improving or enhancing the CFO's water licence under the Water Act.</li> <li>I (we) acknowledge that any construction or actions to populate the CFO with liveste AOPA permit in the absence of a Water Act licence will not be relevant to EPA's conswhether to grant the Water Act licence application.</li> <li>I (we) acknowledge that any such construction or livestock populating will be at the the Water Act licence application is denied or if the operation of the CFO is otherwise violation of the Water Act. This risk includes being required to depopulate the CFO a further construction, or to remove "works" or "undertakings" (as defined in the Water National CFO).</li> </ol>	
<ol> <li>In making this request, I (we) recognize that, if this AOPA application is granted by NRCB's decision will not be considered by EPA as improving or enhancing the CFO's water licence under the Water Act.</li> <li>I (we) acknowledge that any construction or actions to populate the CFO with liveste AOPA permit in the absence of a Water Act licence will not be relevant to EPA's conswhether to grant the Water Act licence application.</li> <li>I (we) acknowledge that any such construction or livestock populating will be at the the Water Act licence application is denied or if the operation of the CFO is otherwise violation of the Water Act. This risk includes being required to depopulate the CFO a further construction, or to remove "works" or "undertakings" (as defined in the Water</li> </ol>	s processing of the
<ul> <li>AOPA permit in the absence of a Water Act licence will not be relevant to EPA's conswhether to grant the Water Act licence application.</li> <li>5. I (we) acknowledge that any such construction or livestock populating will be at the the Water Act licence application is denied or if the operation of the CFO is otherwise violation of the Water Act. This risk includes being required to depopulate the CFO a further construction, or to remove "works" or "undertakings" (as defined in the Water National Construction).</li> </ul>	
5. I (we) acknowledge that any such construction or livestock populating will be at the the Water Act licence application is denied or if the operation of the CFO is otherwise violation of the Water Act. This risk includes being required to depopulate the CFO a further construction, or to remove "works" or "undertakings" (as defined in the Water	
	e deemed to be in and/or to cease
and that, pursuant to the Bow, Oldman and South Saskatchewan River Basin Water [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations	Allocation Order
7. Provide: Water licence application number(s)	
	oplicant or Agent
OPTION 3: Additional water licence not required	
<ol> <li>I (we) declare that the CFO will not need a new licence from EPA under the Water Addevelopment or activity proposed in this AOPA application.</li> </ol>	ct for the
Provide: Water license number(s) or water conveyance agreement details  On Town Water	
Signed this 23 day of December , 202.	
	oplicant or Agent



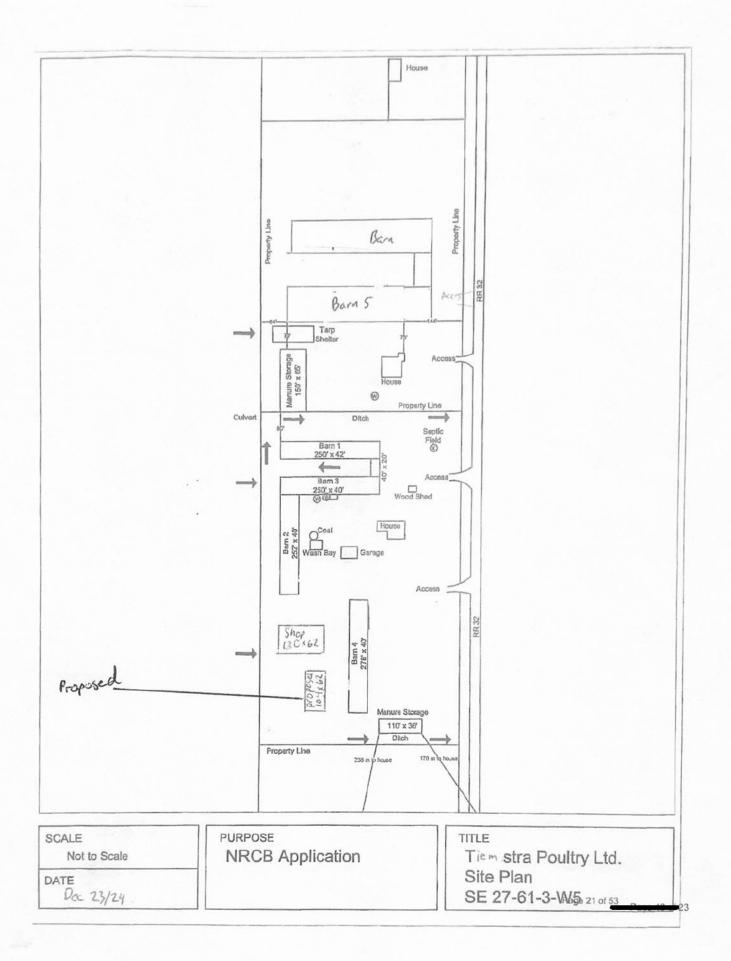
Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

# 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).
- 6. 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 ag	reement details
Signed this	day of	, 20	Signature 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	THEORMATTON

(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)

Existing: Old barns					ed 1:rooster barn			
Propose	d 2:			Proposed 3:				
Facility and environmental risk			Faci	lities			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		YES NO YES with exemption	Not in flood plain	
of the manumanure collemanure collemanure collemanure collemanure collemanure facility or m	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			YES NO YES with exemption	None known	
	How many water wells are within 100 m of the manure storage facility or manure collection area?	4	4			YES NO YES with exemption	None within 100 m of proposed	
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	>30M	>30M			YES NO YES with exemption	138 m dugout from proposed	
water	What is the depth to the water table?		2.44M			YES NO YES with exemption	Meets requirements	
Groundwater	What is the depth to the groundwater resource/aquifer you draw water from?	30.5	30.5			YES NO YES with	Confirmed ID 373442	

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



See Decision Summary BA24019  If for existing facilities  Facility Groundwater score Surface water score File number new layer barn Low Low BA15002  manure storage pads Low Low BA15002  existing barns Low Low BA15002	Facility	Groundwater score	Surface water score	File number
Facility Groundwater score Surface water score File number new layer barn Low Low BA15002 manure storage pads Low Low BA15002 existing barns Low Low BA15002			Surface water score	The Hamber
Facility Groundwater score Surface water score File number new layer barn Low Low BA15002 manure storage pads Low Low BA15002 existing barns Low Low BA15002	See Decision Summary	BA24019		
Facility Groundwater score Surface water score File number new layer barn Low Low BA15002 manure storage pads Low Low BA15002 existing barns Low Low BA15002				
Facility Groundwater score Surface water score File number new layer barn Low Low BA15002 manure storage pads Low Low BA15002 existing barns Low Low BA15002				
Facility Groundwater score Surface water score File number new layer barn Low Low BA15002 manure storage pads Low Low BA15002 existing barns Low Low BA15002				
Facility Groundwater score Surface water score File number new layer barn Low Low BA15002 manure storage pads Low Low BA15002 existing barns Low Low BA15002				
Facility Groundwater score Surface water score File number new layer barn Low Low BA15002 manure storage pads Low Low BA15002 existing barns Low Low BA15002				
new layer barn  Low  Low  BA15002  BA15002  Existing barns  Low  Low  BA15002  BA15002	ST for <u>existing</u> facilities			
manure storage pads  Low  Low  BA15002  Existing barns  Low  BA15002	Facility	Groundwater score	Surface water score	File number
existing barns  Low  BA15002	new layer barn	Low	Low	BA15002
	manure storage pads	Low	Low	BA15002
Freisted comments:	existing barns	Low	Low	BA15002
Freisted comments:				
	ST related comments:			



NRCB USE ONLY WATER WELL AND SURFACE WATER INFORMATION								
Well IDs:ID 355058	ID 37	3441	ID 373442					
ID 492545								
Surface water related concerns from directly affected parties or referral agencies:								
Surface water related concerns from directly affected parties or referral agencies: LYES V NO  Groundwater related concerns from directly affected parties or referral agencies: LYES V NO								
Water wells  V/A	rectly directed parties of refe	Trai agencies.	□ 113 <b>Φ</b> 110					
If applicable, exemption for 100 m distance requirements applied:  YES NO Condition required: YES NO Surface water								
If applicable, exemption for 30 m dist	ance requirements applied: [	YES NO Condition	required: YES NO					
Water Well Exemption Screening	T <b>ool 🗹</b> N/A							
Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility					
	26616	30010						
Groundwater or surface water rela	ated comments:							



View in Imperial Export to Excel

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

492545

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										Date Report Receive	d 1999/03/02
Well Ident	ification and L	ocation.									Measurement in Metric
Owner Nam TIEMSTRA			Address NEERLAN	DIA		Town			Province	Country	Postal Code
Location	1/4 or LSD SE	SEC 27	<i>TWP</i> 61	RGE 3	W of MER 5	Lot	Block	Plan	Additio	nal Description	
Measured f	rom Boundary o	of m from			_	4.301419	•	es (NAD 83) tude <u>-114.</u> 3	· .	Elevation	m
		m from			How Location Not Verified	n Obtained				How Elevation Obta Not Obtained	ined

Drilling Information			
Method of Drilling Rotary	<i>Type of Work</i> New Well		
Proposed Well Use Domestic & Stock			
Formation Log	Measurement in Metric	Yield Test Summary	Measurement in Metric
Depth from Water Lithology Descri ground level (m) Bearing	iption	Recommended Pump Rate 18.18 L/min Test Date Water Removal Rate (L/min)	Static Water Level (m)
25.91 Soft Clay	1	1998/11/18 20.46	27.43
78.64 Shale	i i	Well Completion	Measurement in Metric
111.25 Sandstone 115.82 Shale		Total Depth Drilled Finished Well Depth Start Da 115.82 m 1998/11	
113.02 State	1	Borehole	
		Diameter (cm) From (m) 0.00 0.00	To (m) 115.82
		Surface Casing (if applicable) Well Casi Steel Plastic	ing/Liner
		Size OD : 14.12 cm Si	ize OD : 11.43 cm
			ckness: 0.635 cm
			Top at : 24.38 m
		Perforations Box	ttom at : 115.82 m
		Diameter or Slot Width Slot Leng From (m) To (m) (cm) (cm) 79.25 109.73 0.318	
		Perforated by Machine	
		Annular Seal         Driven           Placed from         0.00 m         to         79.25 i           Amount	<u>m</u>
		Other Seals Type	At (m)
		Screen Type	
	1	Size OD : 0.00 cm	
	j	From (m) To (m)	Slot Size (cm)

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

Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER

Company Name MAHAR, VERN DRILLING SERVICES Certification No

Attachment Top Fittings

Туре

Amount

Copy of Well report provided to owner Date approval holder signed

**Bottom Fittings** 

Grain Size



**GOWN ID** 

# Water Well Drilling Report

View in Imperial Export to Excel

Date Report Received

GIC Well ID

492545

GoA Well Tag No. 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

1999/03/02

Well Identification and Loca	ation					Measurement in Metric
Owner Name TIEMSTRA, KEVIN	Address NEERLANDIA		Town	Pro	vince Cou	untry Postal Code
	SEC TWP RGE 27 61 3	5	ot Block		dditional Description	
	rom	GPS Coordinates Latitude 54.30 How Location Obl		es (NAD 83) tude <u>-114.358296</u>	Elevation How Elevation Not Obtained	
Additional Information						Measurement in Metric
Distance From Top of Casing Is Artesian Flow Rate			Is Flow Cont	rol Installed		
Recommended Pump Rate Recommended Pump Intake I		18.18 L/min	Pump Installed \( \) Type \( SUB \)	es_	Depth e	m H.P75
Did you Encounter Saline W	/ater (>4000 ppm TDS)	Depth	<u>m</u>	Well Disinfected	Model (Out	put Rating)
Remedial Action Taken	Gas			Geophysic	al Log Taken tted to ESRD	
Additional Comments on W		TO GROUND LEVEL		llected for Potabili	ty	Submitted to ESRD
Yield Test					om Ground Level Depth to water level	
	art Time Station:00 AM	Water Level 27.43 m	Pum	ping (m)	Elapsed Time Minutes:Sec	Recovery (m)
Method of Water Removal Type Air Removal Rate Depth Withdrawn From			<u>.</u>		0:00 10:00 20:00 30:00 40:00 50:00	115.82 91.44 73.15 57.91 45.72 36.58
If water removal period was <	2 hours, explain why				60:00	<u>2</u> 7.43
Water Diverted for Drilling						
Water Source	Amo	ount Taken L		Dis	version Date & Time	

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

Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER

Company Name MAHAR, VERN DRILLING SERVICES Certification No



**GOWN ID** 

# Water Well Drilling Report

View in Imperial Export to Excel

498143

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GIC Well ID GoA Well Tag No. Drilling Company Well ID
Date Report Received

2001/04/24

Well Identif	ication and L	ocation						Measurement in Metric
Owner Name OTHEUS, KI		Address NEERLANI	DIA	Town	1	Province	Country	Postal Code
Location	1/4 or LSD SE	SEC TWP 27 61	RGE 3	W of MER Lot 5	Block Plan	Addition	al Description	
Measured fro	om Boundary o		Ĭ	GPS Coordinates in De Latitude 54.301419	cimal Degrees (NAD 8. Longitude -114.	· .	Elevation	m
		m from m from		How Location Obtained		.000230	How Elevation Obtain	
		in irom		Not Verified		İ	Not Obtained	
Drilling Info  Method of D  Rotary				<i>Type of Work</i> New Well	•			
Proposed W Domestic & S			į					
Formation I	Log		М	easurement in Metric	Yield Test Summa	ary		Measurement in Metric
Depth from	Water	Lithology Description	ı		Recommended Pur		36.37 L/min	tatia Matatan I aval (av)
ground level 3.66	(m) Bearing	Soft Clay		1	Test Date W 2000/07/06	/ater Removal I	Rate (L/min) S	tatic Water Level (m) 28.35
65.84		Hard Clay		1 1	Well Completion		<del></del>	Measurement in Metric
84.73		Shale			Total Depth Drilled	Finished Well	Depth Start Date	End Date
152.40	٠	Sandstone		1 1	152.40 m		2000/07/05	2000/07/06
				1 1	Borehole			
					Diameter (cm) 0.00	!	From (m) 0.00	To (m) 152.40
					Surface Casing (if	applicable)	Well Casing/L	• • • • • • • • • • • • • • • • • • • •
				1	Steel Size OD :	14.12 cm	Plastic Size O	D: 11.43 cm
					Wall Thickness :	0.478 cm	_	
					Bottom at :	12.19 m	Тор	
							Bottom	at: 152.40 m
					Perforations	Diameter	r or	
						Slot Wid	dth Slot Length	Hole or Slot
					From (m) To (r 85.34 152.4			Interval(cm) 7.62
					Perforated by N	/lachine		
				]	Annular Seal Drive		05.04	
					Placed from Amount	0.00 m to	85.34 m	
				}	Other Seals			
					Ту	pe		At (m)
					Screen Type			
					Size OD :	0.00 cm	<u>.</u>	:
					From (m)		To (m)	Slot Size (cm)
					Attachment		Better 5'''	
					Top Fittings		BORIOM FIRIN	gs
					Pack Type		Grain Size	:
					Amount			
Contractor	Certification							<del></del>
		nsible for drilling/const	ruction of	well	Certification	on No		

MAHAR, VERN DRILLING SERVICES

UNKNOWN NA DRILLER Company Name



GOWN ID

## Water Well Drilling Report

View in Imperial Export to Excel

498143

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GIC Well ID GoA Well Tag No. Drilling Company Well ID
Date Report Received

2001/04/24

Well Identification	and Location									IVIE	easurement in Me
Owner Name Address OTHEUS, KURTUS NEERLANDIA					Town			Province	Сов	untry	Postal Code
Location 1/4 or SE	LSD SEC 27	<i>TWP</i> 61	RGE 3	W of MER 5	Lot	Block	Plan		nal Description	)	
Measured from Bou	ndary of m from m from			GPS Coordin Latitude 5 How Location Not Verified	4.301419	-	, ,		Elevation How Elevation Not Obtained	on Obtained	
Additional Informa	ntion							<del></del>		Me	easurement in Met
Distance From Top Is Artesian Flow	-	_			I	s Flow Cor					
Recommended Pur	mp Rate	L/min		36 37 1/min	Pumi	Installed				m	<u> </u>
Recommended Pur	mp Intake Depth	(From TOC)		109.73 m	Type	-	100	Make		H.P.	<u></u>
	, ,	,			,				Model (Out	tput Rating)	
Did you Encounte	er Saline Water (		-			m m		fected Upon physical Log	Completion		
Remedial Action	Taken	G	Sas	Depui				Submitted to			
Remedial Action  Additional Comm  DRILLER REPORT	nents on Well						ollected for F	Submitted to	ESRD	Submitted	to ESRD
Remedial Action  Additional Comm  DRILLER REPORT	eents on Well	ROM TO OF C	CASING TO	GROUND LEV			ollected for F	Submitted to Potability  Ken From G	ESRD	Submitted	
Remedial Action  Additional Comm	nents on Well	ROM TO OF C	CASING TO			Sample C	ollected for F	Submitted to  Potability  Ken From G  Depti E	ESRD Ground Level	Submitted Me	to ESRD pasurement in Met Recovery (m)
Remedial Action  Additional Comm DRILLER REPORT  Yield Test Test Date 2000/07/06  Method of Water R	Start Tin 12:00 Al Removal Type Air	ROM TO OF C	CASING TO	GROUND LEV		Sample C	collected for F	Submitted to  Potability  Ken From G  Depti E	iround Level in to water level lapsed Time (inutes: Sec ():00 (20:00 (25:00 (30:00 (35:00)	Submitted Me	to ESRD
Additional Comm DRILLER REPORT  Yield Test Test Date 2000/07/06  Method of Water R	Start Tin 12:00 Al Removal Type Air Rate	ROM TO OF C	CASING TO O	GROUND LEV		Sample C	collected for F	Submitted to  Potability  Ken From G  Depti E	Fround Level In to water level In to water level In to see Time Minutes: Sec 0:00 16:00 20:00 25:00 30:00	Submitted Me	to ESRD
Remedial Action  Additional Comm  DRILLER REPORT  Yield Test  Test Date 2000/07/06  Method of Water R  Removal I  Depth Withdrawn F	Start Tir. 12:00 Al Removal Type Air Rate From 1	ROM TO OF C	CASING TO O	GROUND LEV		Sample C	collected for F	Submitted to  Potability  Ken From G  Depti E	iround Level in to water level lapsed Time (inutes: Sec ():00 (20:00 (25:00 (30:00 (35:00)	Submitted Me	to ESRD

Contractor C	Certification
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Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER

Company Name MAHAR, VERN DRILLING SERVICES Certification No



GIC Well ID

View in Imperial Export to Excel

GoA Well Tag No.

355058

**GOWN ID** 

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Drilling Company Well ID Date Report Received 1989/01/17

Well Identi	fication and L	ocation									Measurement in Metric
Owner Nam TIEMSTRA	-		Address P.O. BOX	122 NEERI	LANDIA	Town			Province	Country	Postal Code T0G 1R0
Location	1/4 or LSD SE	SEC 27	<i>TWP</i> 61	RGE 3	W of MER 5	Lot	Block	Plan	Additio	onal Description	
Measured fr	om Boundary o	of .			GPS Coordin	nates in Dec	imal Degre	es (NAD 83)	)		
	•	m from		- 1	Latitude <u>5</u>	4.301419	Longi	tude <u>-114.3</u>	58296	Elevation	m
		m from		i	How Location	n Obtained				How Elevation Obt	ained
				ı	Map					Not Obtained	

**Drilling Information** Method of Drilling Type of Work Rotary New Well Proposed Well Use nestic & Stock Measurement in Metric Yield Test Summary

Domestic & Stock	<u> </u>	
Formation Log		Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description
25.91	٠.	Sandy Clay
50.29		Shale
52.43		Sandstone
64.31		Shale
74.98	Yes	Water Bearing Sandstone
80.77		Shale
82.60	Yes	Water Bearing Sandstone
90.22		Shale
103.63	Yes	Water Bearing Sandstone

Recommended Pump Rate45.	
Test Date Water Removal Rate	(L/min) Static Water Level (m)
1988/11/17 45.46	21.64
Well Completion	Measurement in Metric
Total Depth Drilled Finished Well Dept	h Start Date End Date
103.63 m	1988/11/16 1988/11/17
Borehole	
	m (m) To (m)
	.00 103.63
Surface Casing (if applicable) Steel	Well Casing/Liner Plastic
Size OD : 14.12 cm	Size OD : 11.43 cm
Wall Thickness: 0.478 cm	Wall Thickness: 0.635 cm
Bottom at : 30.48 m	Top at :25.91 m
	Bottom at : 103.63 m
Perforations Diameter or	Class could like a Class
From (m) To (m) (cm) 60.96 103.63 0.318	Slot Length Hole or Slot (cm) Interval(cm) 7.62
Perforated by Machine	
Annular Seal Driven	
Placed from 0.00 m to	30.48 m
Amount	_
Other Seals	
Туре	At (m)
Screen Type	
Size OD : 0.00 cm	
From (m) To	(m) Slot Size (cm)
Attachment	
Top Fittings	Bottom Fittings
Pack	<del></del>
Type	Grain Size

Contractor	Certification

Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER

Company Name MAHAR, VERN DRILLING SERVICES Certification No

Amount

0.00



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GIC Well ID GoA Well Tag No.

355058

GOWN ID

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Drilling Company Well ID Date Report Received 1989/01/17

	ntification and L	.ocauon									Mea	surement in Metri
Owner Nam TIEMSTRA	me A POULTRY		<i>Addr</i> ess P.O. BOX 1	122 NEERL	.ANDIA	Town			Province	Cour	ntry	Postal Code T0G 1R0
Location	1/4 or LSD SE	SEC 27	<i>TWP</i> 61	RGE 3	W of MER 5		Block	Plan		nal Description		_
Measured i		m from m from			Latitude	dinates in Dec 54.301419 ion Obtained	•			Elevation How Elevation Not Obtained		<u>m</u>
Additional	I Information										Mea	surement in Metri
	From Top of Cas an Flow Rate		_			- "		trol Installed		<del></del>		
	ended Pump Rate	в	L/min		45.46 L/n	nin Pump	Installed				m	
	·		•	•		_				Model (Outpo	ut Rating)	
	Encounter Saling	e Water (>4		OS) Gas		oth oth		Geo	physical Log	Completion		
							Sample Co		Submitted to Potability		Submitted to	ESRD
Addition	nal Comments or	n Well					Sample Co				Submitted to	ESRD
Yield Test	t						Sample Co	ollected for F	en From C			
	t	n Well Start Time 12:00 AM		Static	: Water Level 21.64 m			ollected for F	Potability Ken From C Dept E	Sround Level	Meas	
Yield Test Test Date 1988/11/11 Method of	t	Start Time 12:00 AM al Air	5.46 L/min	Static				ollected for F	Potability Ken From C Dept E	Ground Level h to water level Elapsed Time	Meas	surement in Metri
Yield Test Test Date 1988/11/17 Method of	t 17 <b>of Water Remova</b> Type <u>A</u> Removal Rate	Start Time 12:00 AM al air 45	5.46 L/min 0.96 m					ollected for F	Potability Ken From C Dept E	Ground Level h to water level Elapsed Time	Meas	surement in Metri
Yield Test Test Date 1988/11/11 Method of F Depth Wit	of <b>Water Remov</b> a Type <u>A</u> Removal Rate ithdrawn From	Start Time 12:00 AM  al  Air  45  60  as < 2 hours,	5.46 L/min 0.96 m					ollected for F	Potability Ken From C Dept E	Ground Level h to water level Elapsed Time	Meas	surement in Metri

Contractor Certification

Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER

Company Name MAHAR, VERN DRILLING SERVICES Certification No



View in Imperial Export to Excel

GIC Well ID 373442 GoA Well Tag No.

**GOWN ID** 

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Drilling Company Well ID Date Report Received 1979/03/19

Owner Name	Postal Code
1   27   61   3   5	
Latitude   54.299611   Longitude   -114.355205   Elevation   64.	
·	ed
Rotary New Well  Proposed Well Use Stock	Measurement in Metric
Depth from Water Lithology Description Recommended Pump Rate 9.09 L/min	atic Water Level (m)
4.57 Yellow Clay 1978/11/05 9.09	21.34
Total Depth Drilled   Finished Well Depth   Start Date	11.43 cm 0.635 cm
Screen Type  Size OD:	s

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name

MEASURES, CLARK DRILLING

Certification No



COMM ID

## Water Well Drilling Report

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View in Imperial Export to Excel

373442

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

1070/03/10

Well Identific	ation and L	ocation								Date Nepoli Neo		ement in Metric
<i>Owner Name</i> TIEMSTRA, CI	TIEMSTRA, CLARENCE P.O. BOX 34 NEERL			34 NEERLA	ANDIA	Town			Province	Countr	у	Postal Code
Location 1		SEC 27	<i>TWP</i> 61	RGE 3	W of MER 5	Lot	Block	Plan	Additio	nal Description		
Measured from	-	f m from m from			Latitude	inates in Deci 54.299611 on Obtained	•			Elevation How Elevation C		_
Additional Inf	ormation										Measur	ement in Metric
Distance Fron Is Artesian Fi R					cm_	Is	s Flow Contr					
Recommende	ed Pump Rate	9			9.09 L/mi 73.15 m	_	Installed Y	es		Depth STG Model (Output		<u> </u>
Remedial Ad	counter Saline ction Taken Comments on			Gas		h	m	Geo <sub>l</sub>	ohysical Log Submitted to			RD <u>Yes</u>
Yield Test					· · · · · · · · · · · · · · · · · · ·			Tak		Fround Level	Measur	ement in Metric
Test Date 1978/11/05		Start Time 12:00 AM		Statio	Water Level 21.34 m		Pump	oing (m)	E	h to water level lapsed Time Minutes:Sec	Recov	very (m)
Method of We Rem Depth Withdra If water remov	Type <u>A</u> noval Rate nawn From	ir 60	0.09 L/min 0.96 m explain wh	ηγ								
Water Diverte	ed for Drillin	ng										
Water Source				Amo	unt Taken I	L			Diversio	n Date & Time		

Contractor Certification

Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER

Company Name MEASURES, CLARK DRILLING Certification No



# Albertan Water Well Drilling Report

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. 373441

1 2  Measured from Boundary of m f m f  Drilling Information  Method of Drilling Rotary  Proposed Well Use	Address P.O. BOX 34 NE SEC TWP RO 27 61 3	GE W of MER Lo	in Decimal Degree 9611 Longitu		Date Report Receive  Country  ional Description  Elevation  How Elevation Obta  Estimated	Measurement in Metric Postal Code  644.65 m
TIEMSTRA, CLARENCE  Location 1/4 or LSD 3 1 2  Measured from Boundary of m1 m1  Drilling Information  Method of Drilling Rotary  Proposed Well Use	P.O. BOX 34 NE SEC TWP RO 27 61 3	GE W of MER Lo 5 GPS Coordinates Latitude 54.299 How Location Obt Map Type of Work	ot Block in Decimal Degree 9611 Longitu	Plan Addit s (NAD 83)	ional Description  Elevation  How Elevation Obta	644.65 m
1 2  Measured from Boundary of m f m f  Drilling Information  Method of Drilling Rotary  Proposed Well Use	27 61 3 from	5 GPS Coordinates Latitude 54.29t How Location Obt Map Type of Work	in Decimal Degree 9611 Longitu	s (NAD 83)	Elevation How Elevation Obta	
Drilling Information  Method of Drilling Rotary  Proposed Well Use		Latitude 54.299 How Location Obt Map  Type of Work	9611 Longitu	•	How Elevation Obta	
Method of Drilling Rotary Proposed Well Use	-1					
Stock	· ·				<u> </u>	
Formation Log  Depth from Water ground level (m) Bearing  6.10  39.62  51.82  54.86	cithology Description  (ellow Clay  Slue Shale  Gray Sandstone  Blue Shale  Gray Sandstone	Measurement in Metri	Recommer Test Da 1977/07,  Well Com Total Depti 64.01 m Borehole Diam  Surface C. Galvanized Wall Thice Bott  Perforatio  From (m) 39.62  Perforated Annular S Placed t Amo Other Seal  Screen Ty Siz From Attace	eter (cm) 0.00 esing (if applicable) I Steel te OD: 11.68 kness: 0.358 tom at: 40.54  INS  Diams Slot To (m) (c 64.01 0. by Machine eal from 0.00 m bunt ss  Type  pe te OD: 0.00 om (m) thment iittings	From (m) 0.00  Well Casing/li Plastic  cm Size 0  m Top Bottom  to 0.00 m   Bottom Fittin	To (m) 64.01 Liner  OD: 7.62 cm ess: 0.635 cm o at: 0.00 m

Cor	ntractor	Certification	1

Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER

Company Name

MEASURES, CLARK DRILLING

Certification No



View in Imperial Export to Excel

GIC Well ID 373441 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 Well Identification and Location Measurement in Metric Owner Name Address Town Province Country Postal Code TIEMSTRA, CLARENCE P.O. BOX 34 NEERLANDIA TWP RGE Location 1/4 or LSD SEC W of MER Lot Block Plan Additional Description 27 61 3 5 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude 54.299611 Longitude -114.355205 644.65 m Elevation m from How Location Obtained How Elevation Obtained m from Estimated Additional Information Measurement in Metric Distance From Top of Casing to Ground Level Is Artesian Flow Is Flow Control Installed L/min Rate Describe Recommended Pump Rate 4.55 L/min Pump Installed Yes Depth m Type SUB 220V Recommended Pump Intake Depth (From TOC) 36.58 m Make 13 STG H.P. .5 Model (Output Rating) Did you Encounter Saline Water (>4000 ppm TDS) Depth Well Disinfected Upon Completion m Depth m Geophysical Log Taken Gas \_\_\_ Remedial Action Taken Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well Yield Test Taken From Ground Level Measurement in Metric Depth to water level Test Date Start Time Static Water Level Elapsed Time Pumping (m) Recovery (m) 1977/07/25 12:00 AM 14.94 m Minutes:Sec Method of Water Removal Type Air 6.82 L/min Removal Rate Depth Withdrawn From 42.67 m If water removal period was < 2 hours, explain why

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	<u>.</u>	

**Contractor Certification** 

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name MEASURES, CLARK DRILLING Certification No



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 ON	LY	
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Ron & Charlene Hamoen	Lot 3 SE-27-61-3-W5	235M	Ag	Cat 1	235 m		Yes*
Keith Piers	SW-26-61-3-W5	170M	Ag	Cat 1	170 m		Yes*
Elton Wierenga	NE-22-61-3-W5	801M	Ag	Cat 1	791 m		Yes
Adam Wierenga	NE-22-61-3-W5	996	Ag	Cat 1	982 m		Yes
Henk Wierenga	NW-23-61-3-W5	738	Ag	Cat 1	731 m		Yes

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

				NRCB US	SE ONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
Tiemstra Poultry Ltd	SE-7-62-3-5	62.72			
Tiemstra Poultry Ltd	NE-23-60-3-5	54.63	Grey		
Tiemstra Poultry Ltd	SW-8-62-3-5				
Not re	equired as application is for au	uthorization			
				1	
			Total		

<sup>\*</sup> 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)

\*MDS requirement waived under Section 3(5)(c)(ii) See Decision Summary BA24019.

<sup>\*\*</sup> 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)

<sup>\*\*\*</sup> Brown, dark brown, black, grey wooded, or irrigated



NRCB USE ONLY
MINIMUM DISTANCE SEPARATION
Methods used to determine distance (if applicable):
Margin of error (if applicable):
Requirements (m): Category 1: 313 m Category 2: 418 m Category 3: 522 m Category 4: 835 m
Technology factor:
Expansion factor:
MDS related concerns from directly affected parties or referral agencies:  The proposed barn will be built within the existing footprint of the CFO, and away from the closest residences, without encroaching outside the MDS circle established under Approval BA24004. There will be no increase in livestock numbers or annual manure production therefore, according to section 3(5)(c)(ii) of the Standard and Administration Regulation, an Authorization can be issued even if the application does not meet the MDS.
LAND BASE FOR MANURE AND COMPOST APPLICATION
Land base required: N/A not for an increase in permitted livestock
Land base listed:
Area not suitable:
Available area Requirement met:
Land spreading agreements required:
Manure management plan: ☐ YES ☐ NO If yes, plan is attached: ☐
PLANS
Submitted and attached construction plans: YES \( \square\) NO
Submitted aerial photos: YES NO
Submitted photos: ☐ YES ♥ NO
GRANDFATHERING
Already completed:   ✓ YES □ NO □ N/A
If already completed, see Approval BA15002



NRCB USE ONLY							
ALL SIGNATURES	IN FILE	MYES □	]no				
DATES OF APPROV	AL OFFICER SITE V	ISITS					
January 10, 202	25						
CORRESPONDENCE	E WITH MUNICIPAL	ITIES AN	ID REFERRA	L A	GENCIE	S	
	t: January 7, 20						
Municipality:	County of Barrhead				_		
letter sent	response received	✓ writter	n/email		verbal		no comments received
Alberta Health Services	s: 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	: <b>⋈</b> N/A						
☐ letter sent	response received	☐ writter	n/email		verbal		no comments received
Alberta Regulatory Ser	vices: 🔽 N/A						
☐ letter sent	response received	☐ writter	n/email		verbal		no comments received
Other: Apex Utili	ties				D N	I/A	
letter sent	response received	writter	n/email		verbal		no comments received
Other:					D N	I/A	
☐ letter sent	☐ response received	☐ writter	n/email		verbal		no comments received



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

	ete liner)		and the	
Facility	description / name (	as indicated on site plan)	1. New burn	
			2	
Manure	storage capacity			
	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m³)
1.	104'	621	0	
2.				
			TOTAL CAPACITY	solid manure storage page
equirer Surface Descri	ments for STMS are set of water control system be the run-on and runof	out in the NRCB <u>Short-Term</u> ns	Solid Manure Storage Requirements	
equirer Surface Descri	ments for STMS are set of water control system be the run-on and runof	out in the NRCB <u>Short-Term</u> ns f control system	Solid Manure Storage Requirements	nandling plan for this CFO. The AOPA
Surface Descri	ments for STMS are set of water control system be the run-on and runof der Root and	out in the NRCB <u>Short-Term</u> ns  f control system  direct flow	Solid Manure Storage Requirements	nandling plan for this CFO. The AOPA
Descri Liner p	e water control system be the run-on and runof  Ler Root and  rotection be how the physical inter	out in the NRCB Short-Term  ns  f control system  direct flow  grity of the liner will be mai	Solid Manure Storage Requirements  from Site  intained	nandling plan for this CFO. The AOPA
Descri Liner p	e water control system be the run-on and runof  Ler Root and  rotection be how the physical inter	out in the NRCB <u>Short-Term</u> ns  f control system  direct flow	Solid Manure Storage Requirements  from Site  intained	nandling plan for this CFO. The AOPA
Surface Descri	e water control system be the run-on and runof  Ler Root and  rotection be how the physical inter	out in the NRCB Short-Term  ns  f control system  direct flow  grity of the liner will be mai	Solid Manure Storage Requirements  from Site  intained	nandling plan for this CFO. The AOPA
Surface Descri	e water control system be the run-on and runof  Ler Root and  rotection be how the physical inter	out in the NRCB Short-Term  ns  f control system  direct flow  grity of the liner will be mai	Solid Manure Storage Requirements  from Site  intained	nandling plan for this CFO. The AOPA

Last updated February 26, 2021



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

## SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner (cont.)

Concrete liner details Concrete thickness	Method	d of sulphate protection:				
5"						
		pc 50 or equivelent				
Concrete strength	Concre	crete reinforcement size and spacing				
25mpa	15	" O/C 10 mm				
Concrete requirements can be found in T 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		Requirer Conditio	ments met:  yes \( \subseteq \) NO  n required:  yes \( \subseteq \) NO  attached:  yes \( \subseteq \) NO			
additional information (attach as requi	ired)					
NRCB USE ONLY						
Nine month manure storage volume req	uirements met YES	YES With STMS	□NO			
Depth to water table: >2		Requirements met:	YES NO			
Deput to water table.	30.5 m	Requirements met.				
Depth to Uppermost groundwater resou	oce:	Requirements met:	YES NO			
Surface water control systems  Requirements met: YES  NO	Petails/comments:					
Concrete liner details  Applicant t	o provide document	ation confirming co	oncrete information			
Leakage detection system required:	YES M NO If yes, please	explain why.				

Last updated February 26, 2021