

Part 2 – Technical Requirements

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

NRCB USE ONLY	Application number	Legal land description
<input type="checkbox"/> Approval <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Authorization <input type="checkbox"/> Amendment	BA24019	SE 27-61-3 W5M

APPLICATION DISCLOSURE

This information is collected under the authority of the *Agricultural Operation Practices Act (AOPA)*, and is subject to the provisions of the *Freedom of Information and Protection of Privacy Act*. This information is public unless the NRCB grants a written request that certain sections remain private.

Any construction prior to obtaining an NRCB permit is an offence and is subject to enforcement action, including prosecution.

I, the applicant, or applicant's agent, have read and understand the statements above, and I acknowledge that the information provided in this application is true to the best of my knowledge.

December 23, 2024

Date of signing
Tiemstra Poultry Ltd



Signature
Benjamin Tiemstra

Corporate name (if applicable)

Print name

GENERAL INFORMATION REQUIREMENTS

Proposed facilities: list all proposed confined feeding operation facilities and their dimensions. Indicate whether any of the proposed facilities are additions to existing facilities. (attach additional pages if needed)

Proposed facilities	Dimensions (m) (length, 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 depth)	NRCB USE ONLY
Barn #1	250', 42,	
Barn #2	252', 40'	
Barn #3	250', 40'	

NRCB USE ONLY

Confirmed existing CFO



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If a new facility is replacing an old facility, please explain what will happen to the old facility and when. N/A

the new rooster barn will replace our rooster pen, which will be converted into more space for our pullets.

Dec 31, 2026

Construction completion date for proposed facilities

Additional information

[Empty box for additional information]

Livestock numbers: Complete only if livestock numbers are different from what was identified in the Part 1 application. Note: if livestock numbers increase in your Part 2 application, a new Part 1 application must be submitted which may result in a loss of priority for minimum distance separation (MDS).

Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	Permitted number	Proposed increase or decrease in number (if applicable)	Total
Broiler Breeder Layers	34,000	0	34,000
Broiler Breeder Pullets	17,000	0	17,000

Part 2 – Technical Requirements

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

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 AOPA permit and the Water Act licence

See DeBA24019 water licence application coupled to my AOPA permit application.

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

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 *Water Act* for the development or activity proposed in this AOPA application.
2. I (we) request that the NRCB process the AOPA application **independently** of EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant the *Water Act* licence application.
5. I (we) acknowledge that any such construction or livestock populating 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 licence application number(s) _____

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

OPTION 3: Additional water licence not required

1. I (we) declare that the CFO will not need a new licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. **Provide:** Water license number(s) or water conveyance agreement details _____

On Town Water _____

Signed this 23 day of December, 202.

Signature of Applicant or Agent

Part 2 — Technical Requirements

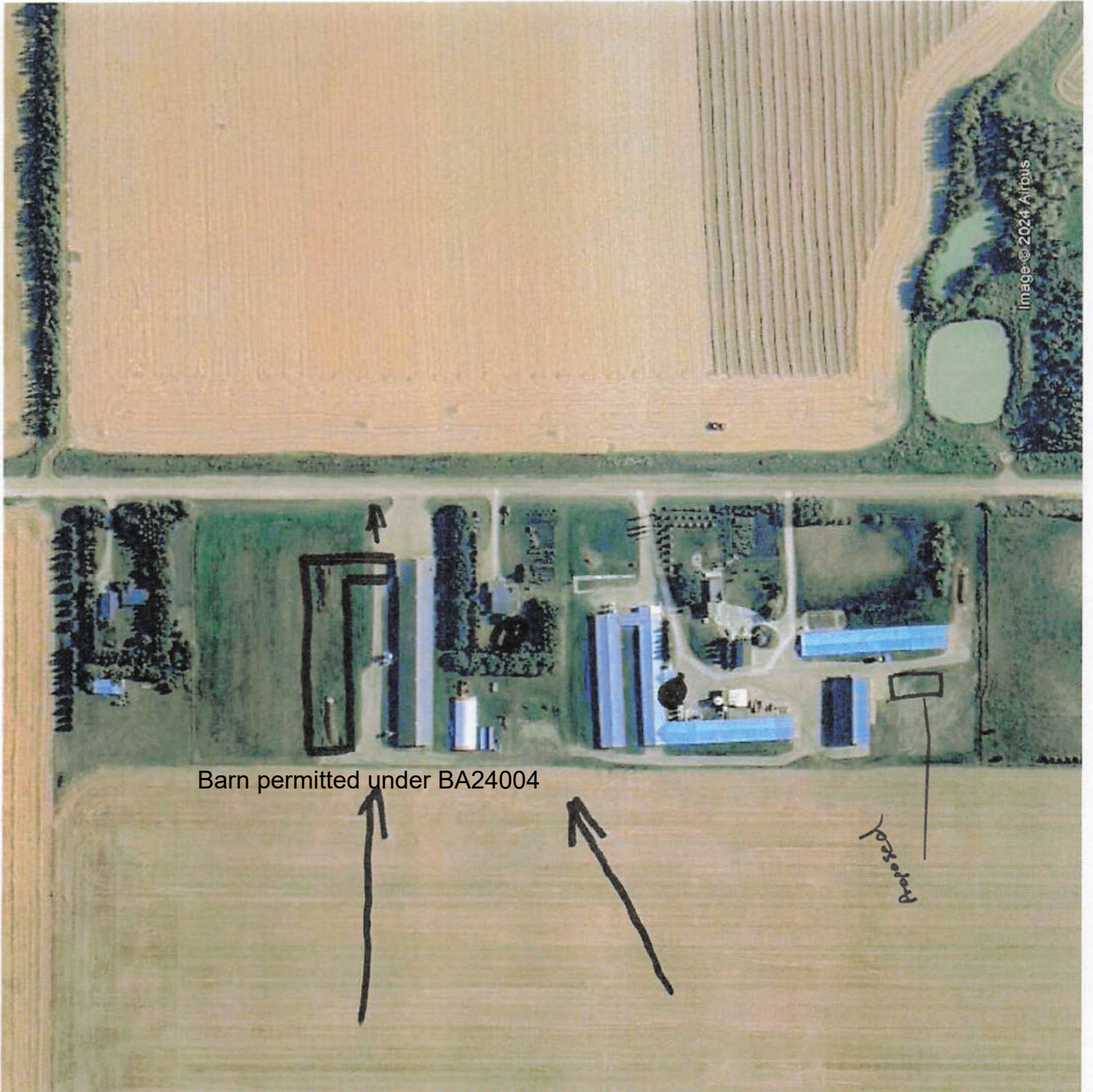
Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

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

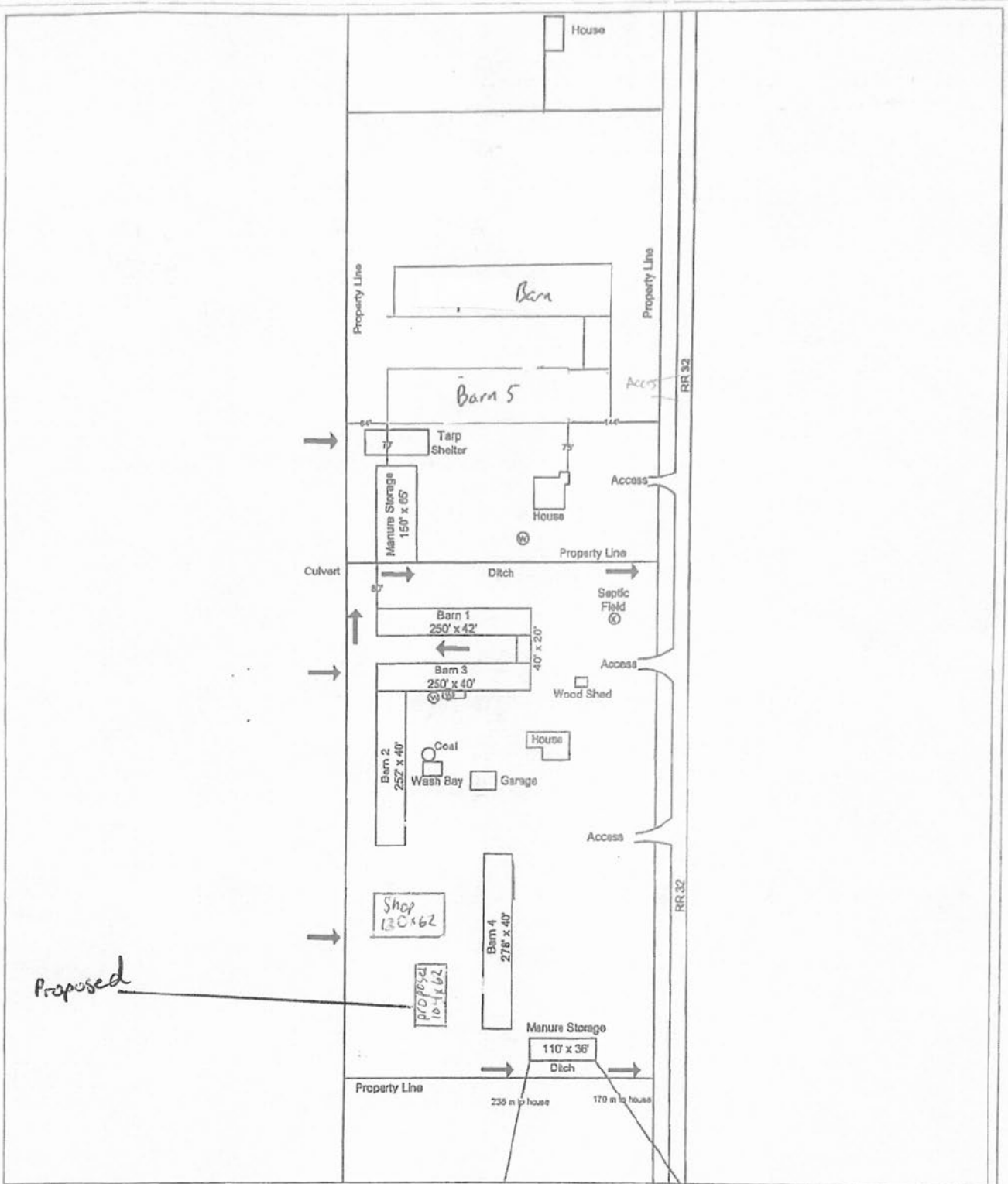
1. At this time, I (we) do not know whether a new water licence is needed from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. If a new *Water Act* licence is needed, I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with additional livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant my *Water Act* licence application, if a new water licence is needed.
5. I (we) acknowledge that any such construction or livestock increase will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
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 number(s) or water conveyance agreement details _____

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent



Barn permitted under BA24004



SCALE
Not to Scale

DATE
Dec 23/24

PURPOSE
NRCB Application

TITLE
Tiemstra Poultry Ltd.
Site Plan
SE 27-61-3-W5

Part 2 – Technical Requirements

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

GENERAL ENVIRONMENTAL INFORMATION

(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 Proposed 1: rooster barn

Proposed 2: _____ Proposed 3: _____

Facility and environmental risk information		Facilities				NRCB USE ONLY	
		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?	<input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Not in flood plain
	Surface water information	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption
	How many water wells are within 100 m of the manure storage facility or manure collection area?	4	4			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> 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			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	138 m dugout from proposed
Groundwater information	What is the depth to the water table?		2.44M			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Meets requirements
	What is the depth to the groundwater resource/aquifer you draw water from?	30.5	30.5			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Confirmed ID 373442

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

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NRCB USE ONLY
ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
See Decision Summary BA24019			

ERST 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

ERST related comments:

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NRCB USE ONLY

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: ID 355058 ID 373441 ID 373442
 ID 492545 _____

Surface water related concerns from directly affected parties or referral agencies: YES NO

Groundwater related concerns from directly affected parties or referral agencies: YES NO

Water wells N/A

If applicable, exemption for 100 m distance requirements applied: YES NO Condition required: YES NO

Surface water N/A

If applicable, exemption for 30 m distance requirements applied: YES NO Condition required: YES NO

Water Well Exemption Screening Tool N/A

Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility

Groundwater or surface water related comments:



Water Well Drilling Report

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GIC Well ID 492545

GoA Well Tag No.

Drilling Company Well ID

Date Report Received 1999/03/02

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										Measurement in Metric	
Owner Name	Address				Town	Province	Country				Postal Code
TIEMSTRA, KEVIN	NEERLANDIA										
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	SE	27	61	3	5						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m	
_____ m from					Latitude <u>54.301419</u> Longitude <u>-114.358296</u>					How Elevation Obtained	
_____ m from					How Location Obtained					Not Obtained	
					Not Verified						

Drilling Information	
Method of Drilling Rotary	Type of Work New Well
Proposed Well Use Domestic & Stock	

Formation Log		Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description
25.91		Soft Clay
78.64		Shale
111.25		Sandstone
115.82		Shale

Yield Test Summary			Measurement in Metric
Recommended Pump Rate	_____ 18.18 L/min		
Test Date	Water Removal Rate (L/min)	Static Water Level (m)	
1998/11/18	20.46	27.43	

Well Completion				Measurement in Metric
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
115.82 m		1998/11/14	1998/11/18	
Borehole				
Diameter (cm)	From (m)	To (m)		
0.00	0.00	115.82		
Surface Casing (if applicable)		Well Casing/Liner		
Steel		Plastic		
Size OD : _____	14.12 cm	Size OD : _____ 11.43 cm		
Wall Thickness : _____	0.478 cm	Wall Thickness : _____ 0.635 cm		
Bottom at : _____	36.58 m	Top at : _____ 24.38 m		
Bottom at : _____ 115.82 m				
Perforations				
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval (cm)
79.25	109.73	0.318		7.62
Perforated by Machine				
Annular Seal Driven				
Placed from _____ 0.00 m to _____ 79.25 m				
Amount _____				
Other Seals				
Type				At (m)
Screen Type				
Size OD : _____ 0.00 cm				
From (m)	To (m)		Slot Size (cm)	
Attachment _____				
Top Fittings _____		Bottom Fittings _____		
Pack				
Type _____		Grain Size _____		
Amount _____				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name MAHAR, VERN DRILLING SERVICES	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

View in Imperial **Export to Excel**

GIC Well ID 492545
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1999/03/02

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GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name TIEMSTRA, KEVIN		Address NEERLANDIA			Town		Province		Country		Postal Code
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	SE	27	61	3	5						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m	
_____ m from					Latitude <u>54.301419</u> Longitude <u>-114.358296</u>					How Elevation Obtained	
_____ m from					How Location Obtained					Not Obtained	
					Not Verified						

Additional Information										Measurement in Metric	
Distance From Top of Casing to Ground Level _____ cm											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ L/min					Describe _____						
Recommended Pump Rate _____ 18.18 L/min					Pump Installed <u>Yes</u>		Depth _____ m				
Recommended Pump Intake Depth (From TOC) _____ 106.68 m					Type <u>SUB</u>		Make _____		H.P. <u>.75</u>		
Model (Output Rating) _____											
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____				
Remedial Action Taken					Gas _____		Depth _____ m		Geophysical Log Taken _____		
Submitted to ESRD											
Additional Comments on Well					Sample Collected for Potability _____			Submitted to ESRD _____			
DRILLER REPORTS DISTANCE FROM TOP OF CASING TO GROUND LEVEL: 2'.											

Yield Test			Taken From Ground Level			Measurement in Metric
Test Date	Start Time	Static Water Level	Depth to water level			
1998/11/18	12:00 AM	27.43 m	Pumping (m)	Elapsed Time	Recovery (m)	
				Minutes:Sec		
Method of Water Removal				0:00	115.82	
Type <u>Air</u>				10:00	91.44	
Removal Rate _____ 20.46 L/min				20:00	73.15	
Depth Withdrawn From _____ 0.00 m				30:00	57.91	
				40:00	45.72	
				50:00	36.58	
				60:00	27.43	
If water removal period was < 2 hours, explain why						

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name MAHAR, VERN DRILLING SERVICES	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

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GIC Well ID 498143
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2001/04/24

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						Measurement in Metric					
Owner Name OTHEUS, KURTUS		Address NEERLANDIA		Town		Province		Country		Postal Code	
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	SE	27	61	3	5						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m	
_____ m from					Latitude <u>54.301419</u> Longitude <u>-114.358296</u>					How Elevation Obtained	
_____ m from					How Location Obtained					Not Obtained	
					Not Verified						

Drilling Information	
Method of Drilling Rotary	Type of Work New Well
Proposed Well Use Domestic & Stock	

Formation Log		Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description
3.66		Soft Clay
65.84		Hard Clay
84.73		Shale
152.40		Sandstone

Yield Test Summary		Measurement in Metric
Recommended Pump Rate <u>36.37 L/min</u>		
Test Date	Water Removal Rate (L/min)	Static Water Level (m)
2000/07/06		28.35

Well Completion		Measurement in Metric	
Total Depth Drilled	Finished Well Depth	Start Date	End Date
152.40 m		2000/07/05	2000/07/06
Borehole			
Diameter (cm)	From (m)	To (m)	
0.00	0.00	152.40	
Surface Casing (if applicable)		Well Casing/Liner	
Steel		Plastic	
Size OD : <u>14.12 cm</u>		Size OD : <u>11.43 cm</u>	
Wall Thickness : <u>0.478 cm</u>		Wall Thickness : <u>0.635 cm</u>	
Bottom at : <u>12.19 m</u>		Top at : <u>6.10 m</u>	
		Bottom at : <u>152.40 m</u>	
Perforations			
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm) / Hole or Slot Interval (cm)
85.34	152.40	0.318	7.62
Perforated by Machine			
Annular Seal Driven			
Placed from <u>0.00 m</u> to <u>85.34 m</u>			
Amount _____			
Other Seals			
Type		At (m)	
Screen Type			
Size OD : <u>0.00 cm</u>			
From (m)	To (m)	Slot Size (cm)	
Attachment _____			
Top Fittings _____		Bottom Fittings _____	
Pack			
Type _____		Grain Size _____	
Amount _____			

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name MAHAR, VERN DRILLING SERVICES	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

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GIC Well ID 498143
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2001/04/24

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										Measurement in Metric		
Owner Name OTHEUS, KURTUS		Address NEERLANDIA			Town		Province		Country		Postal Code	
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description			
	SE	27	61	3	5							
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m		
_____ m from					Latitude <u>54.301419</u> Longitude <u>-114.358296</u>					How Elevation Obtained		
_____ m from					How Location Obtained					Not Obtained		
					Not Verified							

Additional Information										Measurement in Metric	
Distance From Top of Casing to Ground Level _____ cm											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ L/min					Describe _____						
Recommended Pump Rate _____ 36.37 L/min					Pump Installed <u>Yes</u>					Depth _____ m	
Recommended Pump Intake Depth (From TOC) _____ 109.73 m					Type <u>SUB</u>					Make _____ H.P. _____	
										Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m					Well Disinfected Upon Completion _____	
Remedial Action Taken _____					Gas _____ Depth _____ m					Geophysical Log Taken _____	
										Submitted to ESRD _____	
Additional Comments on Well										Sample Collected for Potability _____ Submitted to ESRD _____	
DRILLER REPORTS DISTANCE FROM TO OF CASING TO GROUND LEVEL: 2'.											

Yield Test			Taken From Ground Level			Measurement in Metric	
			Depth to water level				
Test Date	Start Time	Static Water Level	Pumping (m)	Elapsed Time	Recovery (m)		
2000/07/06	12:00 AM	28.35 m		Minutes:Sec			
Method of Water Removal				0:00	152.40		
Type <u>Air</u>				16:00	91.44		
Removal Rate _____ L/min				20:00	76.81		
Depth Withdrawn From _____ 152.40 m				25:00	61.87		
				30:00	48.16		
				35:00	30.18		
				40:00	28.35		
If water removal period was < 2 hours, explain why							

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name MAHAR, VERN DRILLING SERVICES	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

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GIC Well ID 355058

GoA Well Tag No.

Drilling Company Well ID

Date Report Received 1989/01/17

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										Measurement in Metric		
Owner Name		Address			Town		Province		Country		Postal Code	
TIEMSTRA POULTRY		P.O. BOX 122 NEERLANDIA									TOG 1R0	
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description			
	SE	27	61	3	5							
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m		
_____ m from					Latitude <u>54.301419</u> Longitude <u>-114.358296</u>					How Elevation Obtained		
_____ m from					How Location Obtained					Not Obtained		
					Map							

Drilling Information	
Method of Drilling Rotary	Type of Work New Well
Proposed Well Use Domestic & Stock	

Formation Log		Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description
25.91		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

Yield Test Summary		Measurement in Metric
Recommended Pump Rate	<u>45.46 L/min</u>	
Test Date	1988/11/17	Static Water Level (m)
Water Removal Rate (L/min)	45.46	21.64

Well Completion				Measurement in Metric
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
103.63 m		1988/11/16	1988/11/17	
Borehole				
Diameter (cm)	From (m)	To (m)		
0.00	0.00	103.63		
Surface Casing (if applicable)		Well Casing/Liner		
Steel	Size OD : <u>14.12 cm</u>	Plastic	Size OD : <u>11.43 cm</u>	
	Wall Thickness : <u>0.478 cm</u>		Wall Thickness : <u>0.635 cm</u>	
	Bottom at : <u>30.48 m</u>		Top at : <u>25.91 m</u>	
			Bottom at : <u>103.63 m</u>	
Perforations				
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
60.96	103.63	0.318		7.62
Performed by Machine				
Annular Seal Driven				
Placed from <u>0.00 m</u> to <u>30.48 m</u>				
Amount _____				
Other Seals				
Type			At (m)	
Screen Type				
Size OD : <u>0.00 cm</u>				
From (m)		To (m)		Slot Size (cm)
Attachment _____				
Top Fittings _____			Bottom Fittings _____	
Pack				
Type _____			Grain Size _____	
Amount <u>0.00</u>				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name MAHAR, VERN DRILLING SERVICES	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

View in Imperial **Export to Excel**

GIC Well ID 355058

GoA Well Tag No.

Drilling Company Well ID

Date Report Received 1989/01/17

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GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name		Address			Town		Province		Country		Postal Code
TIEMSTRA POULTRY		P.O. BOX 122 NEERLANDIA									T0G 1R0
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	SE	27	61	3	5						
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)				Elevation _____ m			
_____ m from				Latitude <u>54.301419</u> Longitude <u>-114.358296</u>				How Elevation Obtained			
_____ m from				How Location Obtained				Not Obtained			
_____ m from				Map							

Additional Information										Measurement in Metric
Distance From Top of Casing to Ground Level _____ cm										
Is Artesian Flow _____					Is Flow Control Installed _____					
Rate _____ L/min					Describe _____					
Recommended Pump Rate _____ 45.46 L/min					Pump Installed _____		Depth _____ m			
Recommended Pump Intake Depth (From TOC) _____ 0.00 m					Type _____		Make _____ H.P. _____		Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____			
Gas _____					Depth _____ m		Geophysical Log Taken _____			
Remedial Action Taken _____					Submitted to ESRD _____					
Additional Comments on Well _____					Sample Collected for Potability _____			Submitted to ESRD _____		

Yield Test			Taken From Ground Level		Measurement in Metric
Test Date	Start Time	Static Water Level	Depth to water level		
1988/11/17	12:00 AM	21.64 m	Pumping (m)	Elapsed Time	Recovery (m)
				Minutes:Sec	
Method of Water Removal					
Type <u>Air</u>					
Removal Rate _____ 45.46 L/min					
Depth Withdrawn From _____ 60.96 m					
If water removal period was < 2 hours, explain why _____					

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well	Certification No
UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner Date approval holder signed
MAHAR, VERN DRILLING SERVICES	



Water Well Drilling Report

View in Imperial **Export to Excel**

GIC Well ID 373442
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1979/03/19

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GOWN ID

Well Identification and Location						Measurement in Metric					
Owner Name TIEMSTRA, CLARENCE		Address P.O. BOX 34 NEERLANDIA		Town		Province		Country		Postal Code	
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	1	27	61	3	5						
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)				Elevation			
_____ m from				Latitude <u>54.299611</u> Longitude <u>-114.355205</u>				<u>644.65 m</u>			
_____ m from				How Location Obtained				How Elevation Obtained			
				Map				Estimated			

Drilling Information	
Method of Drilling Rotary	Type of Work New Well
Proposed Well Use Stock	

Formation Log		Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description
4.57		Yellow Clay
30.48		Blue Shale
39.62		Gray Sandstone
54.86		Blue Shale
64.01		Gray Sandstone
65.53		Brown Shale
71.63		Gray Sandstone
76.20		Light Gray Shale
82.30		Gray Sandstone

Yield Test Summary		Measurement in Metric
Recommended Pump Rate <u>9.09 L/min</u>		
Test Date	Water Removal Rate (L/min)	Static Water Level (m)
1978/11/05	9.09	21.34

Well Completion		Measurement in Metric	
Total Depth Drilled	Finished Well Depth	Start Date	End Date
82.30 m		1978/11/03	1978/11/05
Borehole			
Diameter (cm)	From (m)	To (m)	
0.00	0.00	82.30	
Surface Casing (if applicable)		Well Casing/Liner	
Plastic		Plastic	
Size OD :	<u>16.81 cm</u>	Size OD :	<u>11.43 cm</u>
Wall Thickness :	<u>0.000 cm</u>	Wall Thickness :	<u>0.635 cm</u>
Bottom at :	<u>32.61 m</u>	Top at :	<u>0.00 m</u>
		Bottom at :	<u>82.30 m</u>
Perforations			
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm) Hole or Slot Interval(cm)
Perforated by Unknown			
Annular Seal			
Placed from <u>0.00 m</u> to <u>0.00 m</u>			
Amount _____			
Other Seals			
Type		At (m)	
Screen Type			
Size OD : <u>0.00 cm</u>			
From (m)	To (m)	Slot Size (cm)	
Attachment _____			
Top Fittings _____		Bottom Fittings _____	
Pack			
Type _____		Grain Size _____	
Amount _____			

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name MEASURES, CLARK DRILLING	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

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GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1979/03/19

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GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name	Address					Town	Province	Country	Postal Code		
TIEMSTRA, CLARENCE	P.O. BOX 34 NEERLANDIA										
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
1		27	61	3	5						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)			Elevation			
_____ m from					Latitude <u>54.299611</u> Longitude <u>-114.355205</u>			_____ 644.65 m			
_____ m from					How Location Obtained			How Elevation Obtained			
					Map			Estimated			

Additional Information										Measurement in Metric	
Distance From Top of Casing to Ground Level _____ cm					Is Flow Control Installed _____						
Is Artesian Flow _____					Rate _____ L/min			Describe _____			
Recommended Pump Rate _____ 9.09 L/min					Pump Installed <u>Yes</u>			Depth _____ m			
Recommended Pump Intake Depth (From TOC) _____ 73.15 m					Type <u>SUB 230V</u>			Make <u>26 STG</u> H.P. <u>.75</u>			
								Model (Output Rating) _____			
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m			Well Disinfected Upon Completion _____			
Remedial Action Taken _____					Gas _____ Depth _____ m			Geophysical Log Taken _____			
								Submitted to ESRD _____			
Additional Comments on Well _____					Sample Collected for Potability _____			Submitted to ESRD <u>Yes</u>			

Yield Test			Taken From Ground Level		Measurement in Metric	
Test Date	Start Time	Static Water Level	Pumping (m)	Depth to water level	Elapsed Time	Recovery (m)
1978/11/05	12:00 AM	21.34 m			Minutes:Sec	
Method of Water Removal						
Type <u>Air</u>						
Removal Rate _____ 9.09 L/min						
Depth Withdrawn From _____ 60.96 m						
If water removal period was < 2 hours, explain why _____						

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name MEASURES, CLARK DRILLING	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

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GOWN ID

Well Identification and Location						Measurement in Metric					
Owner Name TIEMSTRA, CLARENCE		Address P.O. BOX 34 NEERLANDIA		Town		Province		Country		Postal Code	
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	1	27	61	3	5						
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)				Elevation			
_____ m from				Latitude <u>54.299611</u> Longitude <u>-114.355205</u>				<u>644.65 m</u>			
_____ m from				How Location Obtained				How Elevation Obtained			
				Map				Estimated			

Drilling Information	
Method of Drilling Rotary	Type of Work New Well
Proposed Well Use Stock	

Formation Log		Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description
6.10		Yellow Clay
39.62		Blue Shale
51.82		Gray Sandstone
54.86		Blue Shale
64.01		Gray Sandstone

Yield Test Summary		Measurement in Metric
Recommended Pump Rate	<u>4.55 L/min</u>	
Test Date	Water Removal Rate (L/min)	Static Water Level (m)
1977/07/25	6.82	14.94

Well Completion		Measurement in Metric	
Total Depth Drilled	Finished Well Depth	Start Date	End Date
64.01 m		1977/07/21	1977/07/25
Borehole			
Diameter (cm)	From (m)	To (m)	
0.00	0.00	64.01	
Surface Casing (if applicable)		Well Casing/Liner	
Galvanized Steel		Plastic	
Size OD : <u>11.68 cm</u>		Size OD : <u>7.62 cm</u>	
Wall Thickness : <u>0.358 cm</u>		Wall Thickness : <u>0.635 cm</u>	
Bottom at : <u>40.54 m</u>		Top at : <u>0.00 m</u>	
		Bottom at : <u>64.01 m</u>	
Perforations			
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)
39.62	64.01	0.635	0.64
Performed by <u>Machine</u>			
Annular Seal			
Placed from <u>0.00 m</u> to <u>0.00 m</u>			
Amount _____			
Other Seals			
Type		At (m)	
Screen Type			
Size OD : <u>0.00 cm</u>			
From (m)	To (m)	Slot Size (cm)	
Attachment _____			
Top Fittings _____		Bottom Fittings _____	
Pack			
Type _____		Grain Size _____	
Amount _____			

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name MEASURES, CLARK DRILLING	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

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

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GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name TIEMSTRA, CLARENCE		Address P.O. BOX 34 NEERLANDIA			Town		Province		Country		Postal Code
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	1	27	61	3	5						
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)				Elevation			
_____ m from				Latitude <u>54.299611</u> Longitude <u>-114.355205</u>				<u>644.65 m</u>			
_____ m from				How Location Obtained				How Elevation Obtained			
				Map				Estimated			

Additional Information										Measurement in Metric	
Distance From Top of Casing to Ground Level _____ cm											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ L/min					Describe _____						
Recommended Pump Rate _____ 4.55 L/min					Pump Installed <u>Yes</u>		Depth _____ m				
Recommended Pump Intake Depth (From TOC) _____ 36.58 m					Type <u>SUB 220V</u>		Make <u>13 STG</u>		H.P. <u>.5</u>		
										Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____				
Gas _____					Depth _____ m		Geophysical Log Taken _____				
Remedial Action Taken _____					Submitted to ESRD _____						
Additional Comments on Well _____					Sample Collected for Potability _____			Submitted to ESRD _____			

Yield Test			Taken From Ground Level		Measurement in Metric
Test Date	Start Time	Static Water Level	Depth to water level		
1977/07/25	12:00 AM	14.94 m	Pumping (m)	Elapsed Time	Recovery (m)
				Minutes:Sec	
Method of Water Removal					
Type <u>Air</u>					
Removal Rate _____ 6.82 L/min					
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
	L	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name MEASURES, CLARK DRILLING	Copy of Well report provided to owner Date approval holder signed

Part 2 – Technical Requirements

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

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

Neighbour name(s)	Legal land description	Distance (m)	NRCB USE ONLY				
			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)

Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	NRCB USE ONLY		
				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 required as application is for authorization						
				Total		

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

** Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 [Manure Spreading Regulations](#))

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

Additional information (attach any additional information as required)

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

Part 2 – Technical Requirements

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

NRCB USE ONLY

MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): Google earth

Margin of error (if applicable): n/a

Requirements (m): Category 1: 313 m Category 2: 418 m Category 3: 522 m Category 4: 835 m

Technology factor: YES NO

Expansion factor: YES NO

MDS related concerns from directly affected parties or referral agencies: YES NO

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: YES NO

Land spreading agreements required: YES NO

Manure management plan: YES NO If yes, plan is attached:

PLANS

Submitted and attached construction plans: YES NO

Submitted aerial photos: YES NO

Submitted photos: YES NO

GRANDFATHERING

Already completed: YES NO N/A

If already completed, see Approval BA15002

Part 2 – Technical Requirements

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

NRCB USE ONLY

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

January 10, 2025	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: January 7, 2025

Municipality: County of Barrhead

letter sent response received written/email verbal no comments received

Alberta Health Services: N/A

letter sent response received written/email verbal no comments received

Alberta Environment and Parks: N/A

letter sent response received written/email verbal no comments received

Alberta Transportation: N/A

letter sent response received written/email verbal no comments received

Alberta Regulatory Services: N/A

letter sent response received written/email verbal no comments received

Other: Apex Utilities N/A

letter sent response received written/email verbal no comments received

Other: _____ N/A

letter sent response received written/email verbal no comments received

Part 2 – Technical Requirements

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

SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner

(complete a copy of this section for EACH barn, feedlot, and storage facility for solid manure, composting materials, or compost with a concrete liner)

Facility description / name (as indicated on site plan) 1. New barn
 2. _____

Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m ³)
1.	<u>104'</u>	<u>62'</u>	<u>0</u>	
2.				
TOTAL CAPACITY				solid manure storage pads and STMS available.

I plan to use a short-term solid manure storage (STMS) as part of my manure storage and handling plan for this CFO. The AOPA requirements for STMS are set out in the NRCB [Short-Term Solid Manure Storage Requirements Fact Sheet](#).

Surface water control systems

Describe the run-on and runoff control system

Under Roof and direct flow from site

Liner protection

Describe how the physical integrity of the liner will be maintained

Monitor for cracks and repair if needed

NRCB USE ONLY

Requirements met: YES NO

