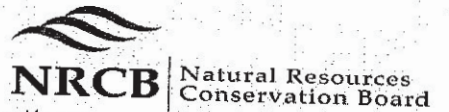


# Technical Document RA22002

## 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)

<b>NRCB USE ONLY</b>			Application number	Legal land description
<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Registration	<input type="checkbox"/> Authorization	RA22002	SW 28-45-20 W4M
<input type="checkbox"/> Amendment				

### 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.

Date of signing Oct 26, 2021

Signature

Corporate name (if applicable) R+T PENNER FARMS LTD.

Print name Rylan Penner

### 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)
Poultry Barn (barn three)	ft ft 316 x 50 96.3 m x 15.2 m

**Existing facilities:** list ALL existing confined feeding operation facilities and their dimensions

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Poultry Barn (barn one)	feet feet 200 x 40	61 m x 12.2 m
Poultry Barn (barn two)	feet feet 316 x 50	96.3 m x 15.2 m
Manure storage	feet 50 x 90	15.2 m x 24.4 m

**NRCB USE ONLY**

The existing facilities are discussed further in Appendix A of Decision Summary RA22002.



# 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** Natural Resources Conservation Board

Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
	NA	

# 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)

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

N/A

Construction completion date for proposed facilities Dec. 26 2024

**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
See Part 1			
The Part 1 application proposes an increase from 50,000 to 75,000 broiler poultry. On January 20, 2022 Mr. Penner clarified that his application is for broiler chickens.			



# 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 Parks (AEP) 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**

I **DO** want my 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 AEP 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 AEP'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 AEP 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 AEP'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.

Signed this 26 day of October, 2021.

\_\_\_\_\_  
*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 AEP under the *Water Act* for the development or activity proposed in this AOPA application.

Signed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
*Signature of Applicant or Agent*

### **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 AEP 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 AEP'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 AEP 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 AEP'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.

Signed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
*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)

**NRCB USE ONLY**

**ALL SIGNATURES IN FILE**

YES  NO

**DATES OF APPROVAL OFFICER SITE VISITS**

October 26, 2021	

**CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES**

Date deeming letters sent: January 18, 2022

Municipality: Camrose County

letter sent       response received       written/email       verbal       no comments received

**Alberta Health Services:**

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

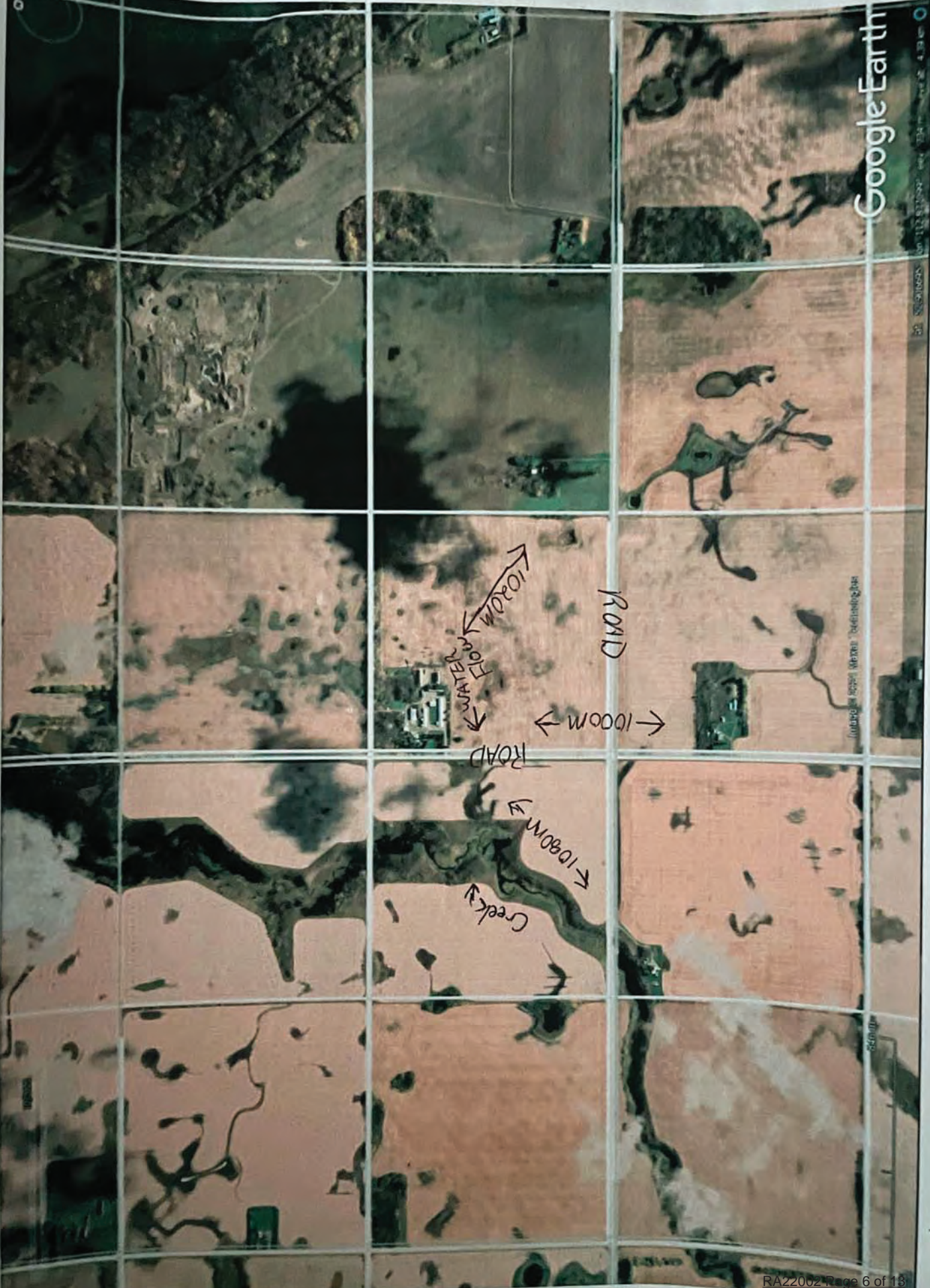
**Other:** \_\_\_\_\_  N/A

letter sent       response received       written/email       verbal       no comments received

**Other:** \_\_\_\_\_  N/A

letter sent       response received       written/email       verbal       no comments received





Google Earth

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ROAD  
ROAD  
ROAD  
HAYMEN ROAD  
Creeky  
1000M  
1000M  
1000M

SW-28-82-MS 4M

↑



↑ North

SW-28-45-20-W4

AEP ww 232206

ww A

ww B

AEP ww 295018

slough





## 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:** Barns 1, 2 (incl manure pad)

**Proposed 1:** Barn 3

**Proposed 2:** \_\_\_\_\_

**Proposed 3:** \_\_\_\_\_

Facility and environmental risk information	Facilities				NRCB USE ONLY	
	Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
<b>Flood plain Information</b> 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 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 known flood plain
<b>Surface water Information</b> 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	none observed or reported
<b>Surface water Information</b> How many water wells are within 100 m of the manure storage facility or manure collection area?	3	3			<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES with exemption	four water wells are on site, see further comments on page 17
<b>Surface water Information</b> What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	150 meters	150 meters			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Barn three is the closest to the slough west of range road 204 (approx 114 m away)
<b>Groundwater Information</b> What is the depth to the water table?	2 meters	2 meters			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
<b>Groundwater Information</b> What is the depth to the groundwater resource/aquifer you draw water from?	19.5 meters	19.5 meters			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	16.5 m based on AEP WWS 232205 and 295018

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





# Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 232204  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received 1979/01/05

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	
<b>Owner Name</b> PENNER, JAMES		<b>Address</b> P.O. BOX 43 NEW NORWAY			<b>Town</b>		<b>Province</b>		<b>Country</b>		<b>Postal Code</b>
<b>Location</b>	<i>1/4 or LSD</i>	<i>SEC</i>	<i>TWP</i>	<i>RGE</i>	<i>W of MER</i>	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
	5	28	45	20	4						
<b>Measured from Boundary of</b>					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>						
_____ m from _____					Latitude <u>52.907120</u>		Longitude <u>-112.855206</u>		Elevation <u>725.42</u> m		
_____ m from _____					How Location Obtained					How Elevation Obtained	
					Map					Estimated	

Drilling Information	
<b>Method of Drilling</b> Rotary	<b>Type of Work</b> New Well
<b>Proposed Well Use</b> Domestic & Stock	

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
12.19		Clay	
18.29		Sand	
22.86		Gravel	
27.43		Shale	
33.53		Sandstone	
45.72		Shale	
57.91		Sandstone	
60.96		Shale	

Yield Test Summary			Measurement in Metric
<b>Recommended Pump Rate</b> <u>0.00</u> L/min			
<b>Test Date</b>	<b>Water Removal Rate (L/min)</b>	<b>Static Water Level (m)</b>	
1978/10/29	13.64	12.19	

Well Completion				Measurement in Metric
<b>Total Depth Drilled</b>	<b>Finished Well Depth</b>	<b>Start Date</b>	<b>End Date</b>	
60.96 m		1978/10/25	1978/10/29	
<b>Borehole</b>				
<b>Diameter (cm)</b>	<b>From (m)</b>	<b>To (m)</b>		
0.00	0.00	60.96		
<b>Surface Casing (if applicable)</b>		<b>Well Casing/Liner</b>		
Steel		Steel		
Size OD : <u>14.12</u> cm		Size OD : <u>11.43</u> cm		
Wall Thickness : <u>0.396</u> cm		Wall Thickness : <u>0.635</u> cm		
Bottom at : <u>24.99</u> m		Top at : <u>0.00</u> m		
		Bottom at : <u>60.96</u> m		
<b>Perforations</b>				
<b>From (m)</b>	<b>To (m)</b>	<b>Diameter or Slot Width (cm)</b>	<b>Slot Length (cm)</b>	<b>Hole or Slot Interval (cm)</b>
42.67	60.96	0.635		12.70
Perforated by Torch				
<b>Annular Seal</b> Driven				
Placed from <u>0.00</u> m to <u>24.99</u> m				
Amount _____				
<b>Other Seals</b>				
Type		At (m)		
<b>Screen Type</b>				
Size OD : <u>0.00</u> cm				
<b>From (m)</b>	<b>To (m)</b>	<b>Slot Size (cm)</b>		
Attachment _____				
Top Fittings _____		Bottom Fittings _____		
<b>Pack</b>				
Type _____		Grain Size _____		
Amount _____				

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





# Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 232204  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received 1979/01/05

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	
<b>Owner Name</b> PENNER, JAMES		<b>Address</b> P.O. BOX 43 NEW NORWAY			<b>Town</b>		<b>Province</b>		<b>Country</b>		<b>Postal Code</b>
<b>Location</b>	<i>1/4 or LSD</i> 5	<i>SEC</i> 28	<i>TWP</i> 45	<i>RGE</i> 20	<i>W of MER</i> 4	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
<b>Measured from Boundary of</b> _____ m from _____ _____ m from _____					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b> Latitude <u>52.907120</u> Longitude <u>-112.855206</u>			Elevation <u>725.42</u> m		How Elevation Obtained Estimated	
					How Location Obtained 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 _____ 0.00 L/min					Pump Installed _____		Depth _____ m					
Recommended Pump Intake Depth (From TOC) _____ 57.91 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 _____			Submitted to ESRD _____		
Additional Comments on Well WATER IS SOFT.					Sample Collected for Potability _____			Submitted to ESRD _____				

Yield Test				Taken From Ground Level	Measurement in Metric
				Depth to water level	
Test Date 1978/10/29	Start Time 12:00 AM	Static Water Level 12.19 m		Pumping (m)	Recovery (m)
				Elapsed Time Minutes:Sec	
<b>Method of Water Removal</b>					
Type Air _____					
Removal Rate _____ 13.64 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 L	Diversion Date & Time

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





# Water Well Drilling Report

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GIC Well ID 232205  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received 1983/07/15

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.

Well Identification and Location										Measurement in Metric	
<b>Owner Name</b> PENNER, JAMES		<b>Address</b> P.O. BOX 97 NEW NORWAY			<b>Town</b>		<b>Province</b>		<b>Country</b>		<b>Postal Code</b> T0B 3L0
<b>Location</b>	<i>1/4 or LSD</i> 5	<i>SEC</i> 28	<i>TWP</i> 45	<i>RGE</i> 20	<i>W of MER</i> 4	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
<b>Measured from Boundary of</b> _____ m from _____ _____ m from _____					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b> Latitude <u>52.907120</u> Longitude <u>-112.855206</u>			Elevation _____ m		How Location Obtained Map	
								How Elevation Obtained Not Obtained			

Drilling Information	
<b>Method of Drilling</b> Rotary	<b>Type of Work</b> New Well
<b>Proposed Well Use</b> Domestic & Stock	

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
4.57		Sand	
16.46		Clay	
21.34		Gravel	
27.43		Shale	
30.48		Gray Sandstone	
43.28		Shale	
45.72		Gray Sandstone	
51.82		Shale	
54.86		Gray Sandstone	
70.10		Shale	
74.68		Gray Sandstone	
79.25		Shale	

Yield Test Summary			Measurement in Metric
<i>Recommended Pump Rate</i> _____			0.00 L/min
<b>Test Date</b>	<b>Water Removal Rate (L/min)</b>	<b>Static Water Level (m)</b>	
1983/05/25	27.28	12.19	

Well Completion				Measurement in Metric
<i>Total Depth Drilled</i>	<i>Finished Well Depth</i>	<i>Start Date</i>	<i>End Date</i>	
79.25 m		1983/05/24	1983/05/25	
<b>Borehole</b>				
<b>Diameter (cm)</b>	<b>From (m)</b>	<b>To (m)</b>		
0.00	0.00	79.25		
<b>Surface Casing (if applicable)</b>		<b>Well Casing/Liner</b>		
Steel				
<i>Size OD :</i> _____		<i>Size OD :</i> _____		
<i>Wall Thickness :</i> _____		<i>Wall Thickness :</i> _____		
<i>Bottom at :</i> _____		<i>Top at :</i> _____		
		<i>Bottom at :</i> _____		
<b>Perforations</b>				
<b>From (m)</b>	<b>To (m)</b>	<b>Diameter or Slot Width (cm)</b>	<b>Slot Length (cm)</b>	<b>Hole or Slot Interval (cm)</b>
<i>Perforated by</i>				
<b>Annular Seal</b>				
<i>Placed from</i> _____ <i>to</i> _____				
<i>Amount</i> _____				
<b>Other Seals</b>				
<b>Type</b>		<b>At (m)</b>		
<b>Screen Type</b>				
<i>Size OD :</i> _____				
<b>From (m)</b>	<b>To (m)</b>	<b>Slot Size (cm)</b>		
<i>Attachment</i> _____				
<i>Top Fittings</i> _____		<i>Bottom Fittings</i> _____		
<b>Pack</b>				
<i>Type</i> _____		<i>Grain Size</i> _____		
<i>Amount</i> 0.00				

Contractor Certification	
<i>Name of Journeyman responsible for drilling/construction of well</i> UNKNOWN NA DRILLER	<i>Certification No</i> 1
<i>Company Name</i> J & R DRLG	<i>Copy of Well report provided to owner</i> <i>Date approval holder signed</i>





# Water Well Drilling Report

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GIC Well ID 232205  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received 1983/07/15

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	
<b>Owner Name</b> PENNER, JAMES		<b>Address</b> P.O. BOX 97 NEW NORWAY			<b>Town</b>		<b>Province</b>		<b>Country</b>		<b>Postal Code</b> T0B 3L0
<b>Location</b>	<i>1/4 or LSD</i> 5	<i>SEC</i> 28	<i>TWP</i> 45	<i>RGE</i> 20	<i>W of MER</i> 4	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
<b>Measured from Boundary of</b>					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>						
_____ m from _____					Latitude <u>52.907120</u> Longitude <u>-112.855206</u>					Elevation _____ m	
_____ m from _____					How Location Obtained					How Elevation Obtained	
					Map					Not Obtained	

Additional Information										Measurement in Metric
<i>Distance From Top of Casing to Ground Level</i> _____ cm										
<i>Is Artesian Flow</i> _____					<i>Is Flow Control Installed</i> _____					
<i>Rate</i> _____ L/min					<i>Describe</i> _____					
<i>Recommended Pump Rate</i> _____ 0.00 L/min					<i>Pump Installed</i> _____		<i>Depth</i> _____ m			
<i>Recommended Pump Intake Depth (From TOC)</i> _____ 19.81 m					<i>Type</i> _____		<i>Make</i> _____		<i>H.P.</i> _____	
										<i>Model (Output Rating)</i> _____
<i>Did you Encounter Saline Water (&gt;4000 ppm TDS)</i> _____					<i>Depth</i> _____ m		<i>Well Disinfected Upon Completion</i> _____			
<i>Gas</i> _____					<i>Depth</i> _____ m		<i>Geophysical Log Taken</i> _____			
										<i>Submitted to ESRD</i> _____
<i>Additional Comments on Well</i>										<i>Sample Collected for Potability</i> _____
<i>Submitted to ESRD</i> _____										
WATER IS HARD.										

Yield Test				Taken From Ground Level	Measurement in Metric
<i>Test Date</i> 1983/05/25	<i>Start Time</i> 12:00 AM	<i>Static Water Level</i> 12.19 m		<i>Depth to water level</i>	
			<b>Pumping (m)</b>	<b>Elapsed Time</b>	<b>Recovery (m)</b>
				Minutes:Sec	
<b>Method of Water Removal</b>					
<i>Type Pump</i> _____					
<i>Removal Rate</i> _____ 27.28 L/min					
<i>Depth Withdrawn From</i> _____ 16.76 m					
<i>If water removal period was &lt; 2 hours, explain why</i>					

Water Diverted for Drilling		
<i>Water Source</i>	<i>Amount Taken</i>	<i>Diversion Date &amp; Time</i>
	L	

Contractor Certification	
<i>Name of Journeyman responsible for drilling/construction of well</i> UNKNOWN NA DRILLER	<i>Certification No</i> 1
<i>Company Name</i> J & R DRLG	<i>Copy of Well report provided to owner</i> <i>Date approval holder signed</i>





# Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 232206  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received 1988/09/28

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	
<b>Owner Name</b> PENNER, JAMES		<b>Address</b> P.O. BOX 97 NEW NORWAY			<b>Town</b>		<b>Province</b>		<b>Country</b>		<b>Postal Code</b> T0B 3L0
<b>Location</b>	<i>1/4 or LSD</i> SW	<i>SEC</i> 28	<i>TWP</i> 45	<i>RGE</i> 20	<i>W of MER</i> 4	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
<b>Measured from Boundary of</b>					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>						
_____ m from _____					Latitude <u>52.905312</u>		Longitude <u>-112.852214</u>		Elevation _____ m		
_____ m from _____					How Location Obtained					How Elevation Obtained	
					Map					Not Obtained	

Drilling Information	
<b>Method of Drilling</b> Rotary	<b>Type of Work</b> New Well
<b>Proposed Well Use</b> Stock	

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
3.66		Sand	
18.90		Clay	
21.03		Gravel	
21.64		Sand	
22.86		Gravel	
23.47		Sand & Shale	

Yield Test Summary			Measurement in Metric
<i>Recommended Pump Rate</i> <u>59.10 L/min</u>			
<i>Test Date</i>	<i>Water Removal Rate (L/min)</i>	<i>Static Water Level (m)</i>	
1988/09/14	59.10	12.80	

Well Completion				Measurement in Metric
<i>Total Depth Drilled</i>	<i>Finished Well Depth</i>	<i>Start Date</i>	<i>End Date</i>	
23.47 m		1988/09/14	1988/09/14	
<b>Borehole</b>				
<i>Diameter (cm)</i>	<i>From (m)</i>	<i>To (m)</i>		
0.00	0.00	23.47		
<b>Surface Casing (if applicable)</b>		<b>Well Casing/Liner</b>		
Steel				
<i>Size OD :</i> <u>14.12 cm</u>		<i>Size OD :</i> <u>0.00 cm</u>		
<i>Wall Thickness :</i> <u>0.478 cm</u>		<i>Wall Thickness :</i> <u>0.000 cm</u>		
<i>Bottom at :</i> <u>21.64 m</u>		<i>Top at :</i> <u>0.00 m</u>		
<i>Bottom at :</i> <u>0.00 m</u>				
<b>Perforations</b>				
<i>From (m)</i>	<i>To (m)</i>	<i>Diameter or Slot Width (cm)</i>	<i>Slot Length (cm)</i>	<i>Hole or Slot Interval (cm)</i>
<i>Perforated by</i>				
<b>Annular Seal</b> Drive Shoe				
<i>Placed from</i> <u>0.00 m</u> <i>to</i> <u>21.64 m</u>				
<i>Amount</i> _____				
<b>Other Seals</b>				
<i>Type</i>				<i>At (m)</i>
<b>Screen Type</b> Steel				
<i>Size OD :</i> <u>7.62 cm</u>				
<i>From (m)</i>	<i>To (m)</i>	<i>Slot Size (cm)</i>		
<i>Attachment</i> <u>Attached To Riser</u>				
<i>Top Fittings</i> <u>Neoprene (Figure K)</u>		<i>Bottom Fittings</i> <u>Plug</u>		
<b>Pack</b>				
<i>Type</i> _____		<i>Grain Size</i> _____		
<i>Amount</i> <u>0.00</u>				

Contractor Certification	
<i>Name of Journeyman responsible for drilling/construction of well</i> UNKNOWN NA DRILLER	<i>Certification No</i> 1
<i>Company Name</i> SCHMIDT DRILLING LTD.	<i>Copy of Well report provided to owner</i> <i>Date approval holder signed</i>



# Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 232206  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received 1988/09/28

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	
<b>Owner Name</b> PENNER, JAMES		<b>Address</b> P.O. BOX 97 NEW NORWAY			<b>Town</b>		<b>Province</b>		<b>Country</b>		<b>Postal Code</b> T0B 3L0
<b>Location</b>	1/4 or LSD SW	SEC 28	TWP 45	RGE 20	W of MER 4	Lot	Block	Plan	Additional Description		
<b>Measured from Boundary of</b>					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>						
_____ m from _____					Latitude <u>52.905312</u> Longitude <u>-112.852214</u>					Elevation _____ m	
_____ m from _____					How Location Obtained					How Elevation Obtained	
					Map					Not Obtained	

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 _____ 59.10 L/min					Pump Installed _____					Depth _____ m	
Recommended Pump Intake Depth (From TOC) _____ 17.68 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 _____				
										Submitted to ESRD _____	
Additional Comments on Well										Sample Collected for Potability _____	Submitted to ESRD _____
WATER IS HARD.											

Yield Test				Taken From Ground Level	Measurement in Metric
Test Date	Start Time	Static Water Level		Depth to water level	
1988/09/14	12:00 AM	12.80 m			
				Pumping (m)	Recovery (m)
				Elapsed Time	
				Minutes:Sec	
<b>Method of Water Removal</b>					
Type Air _____					
Removal Rate _____ 59.10 L/min					
Depth Withdrawn From _____ 0.00 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 SCHMIDT DRILLING LTD.	Copy of Well report provided to owner Date approval holder signed





# Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 295018  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received 2000/09/27

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.

Well Identification and Location										Measurement in Metric	
<b>Owner Name</b> PENNER, JAMES		<b>Address</b> P.O. BOX 97 NEW NORWAY			<b>Town</b>		<b>Province</b>		<b>Country</b>		<b>Postal Code</b> T0B 3L0
<b>Location</b>	<i>1/4 or LSD</i> SW	<i>SEC</i> 28	<i>TWP</i> 45	<i>RGE</i> 20	<i>W of MER</i> 4	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
<b>Measured from Boundary of</b>					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>						
_____ m from _____					Latitude <u>52.905312</u>		Longitude <u>-112.852214</u>		Elevation _____ m		
_____ m from _____					How Location Obtained					How Elevation Obtained	
					Map					Not Obtained	

Drilling Information	
<b>Method of Drilling</b> Rotary	<b>Type of Work</b> New Well
<b>Proposed Well Use</b> Domestic	

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
6.71		Light Brown Till	
10.36		Gray Till & Clay	
10.97		Gray Very Fine Grained Sand	
19.51		Gray Till & Clay	
23.77		Gravel	

Yield Test Summary			Measurement in Metric
<b>Recommended Pump Rate</b>		<u>45.46</u> L/min	
<b>Test Date</b>	<b>Water Removal Rate (L/min)</b>	<b>Static Water Level (m)</b>	
2000/08/06	45.46	14.02	

Well Completion				Measurement in Metric
<b>Total Depth Drilled</b>	<b>Finished Well Depth</b>	<b>Start Date</b>	<b>End Date</b>	
23.77 m		2000/08/06	2000/08/06	
<b>Borehole</b>				
<b>Diameter (cm)</b>	<b>From (m)</b>	<b>To (m)</b>		
0.00	0.00	23.77		
<b>Surface Casing (if applicable)</b>		<b>Well Casing/Liner</b>		
Plastic				
Size OD : <u>15.24</u> cm		Size OD : <u>0.00</u> cm		
Wall Thickness : <u>1.097</u> cm		Wall Thickness : <u>0.000</u> cm		
Bottom at : <u>22.25</u> m		Top at : <u>0.00</u> m		
		Bottom at : <u>0.00</u> m		
<b>Perforations</b>				
<b>From (m)</b>	<b>To (m)</b>	<b>Diameter or Slot Width (cm)</b>	<b>Slot Length (cm)</b>	<b>Hole or Slot Interval (cm)</b>
Perforated by				
<b>Annular Seal</b> Bentonite Chips/Tablets				
Placed from <u>0.00</u> m to <u>22.25</u> m				
Amount _____				
Other Seals				
Type		At (m)		
<b>Screen Type</b> Stainless Steel				
Size OD : <u>11.43</u> cm				
<b>From (m)</b>	<b>To (m)</b>	<b>Slot Size (cm)</b>		
22.25	23.77	0.038		
Attachment <u>Telescoped</u>				
Top Fittings <u>Packer</u>		Bottom Fittings <u>Plug</u>		
<b>Pack</b>				
Type <u>Natural</u>		Grain Size _____		
Amount _____				

Contractor Certification	
<b>Name of Journeyman responsible for drilling/construction of well</b> UNKNOWN NA DRILLER	<b>Certification No</b> 1
<b>Company Name</b> SCHMIDT DRILLING LTD.	<b>Copy of Well report provided to owner</b> <b>Date approval holder signed</b>



# Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 295018  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received 2000/09/27

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.

Well Identification and Location										Measurement in Metric	
<b>Owner Name</b> PENNER, JAMES		<b>Address</b> P.O. BOX 97 NEW NORWAY			<b>Town</b>		<b>Province</b>		<b>Country</b>		<b>Postal Code</b> T0B 3L0
<b>Location</b>	1/4 or LSD SW	SEC 28	TWP 45	RGE 20	W of MER 4	Lot	Block	Plan	Additional Description		
<b>Measured from Boundary of</b>					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>						
_____ m from _____					Latitude <u>52.905312</u> Longitude <u>-112.852214</u>					Elevation _____ m	
_____ m from _____					How Location Obtained					How Elevation Obtained	
					Map					Not Obtained	

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) _____ 21.34 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 _____				
										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	
2000/08/06	12:00 AM	14.02 m			
<b>Method of Water Removal</b>					
Type Air _____					
Removal Rate _____ 45.46 L/min					
Depth Withdrawn From _____ 21.34 m					
If water removal period was < 2 hours, explain why					

Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
	1:00	18.00
	2:00	16.00
	3:00	15.50
	4:00	15.32
	5:00	15.20

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 SCHMIDT DRILLING LTD.	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)

**NRCB USE ONLY**

**WATER WELL AND SURFACE WATER INFORMATION**

Well IDs: 232204, 232205, 232206 and 295018

I was unable to determine whether the wells marked as A and B on page 7 are 232204 or 232205. For risk screening purposes I used the worst case scenario of both.

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
water well 295018	10, continue	18	Barn 3
A risk score of 18 in the second screening is indicative of an exemption being more likely.			
The risk screening result for water well 295018 is discussed Appendix C of Decision Summary RA22002.			

**Groundwater or surface water related comments:**

# 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**  
**ENVIRONMENTAL RISK SCREENING INFORMATION**

**ERST** for **proposed** facilities

Facility	Groundwater score	Surface water score	File number
Barn three	Low	Low	RA22002

**ERST** for **existing** facilities

Facility	Groundwater score	Surface water score	File number
Manure storage pad	Low	Low	RA22002

**ERST related comments:**

The manure storage pad is manure storage facility at this CFO which presents the highest potential risk to surface water and groundwater when compared to Barn 1 and Barn 2. This is due to the manure storage pad not having a roof over it and only having a soil liner, the barns by comparison have concrete floors and roof cover. The manure storage pad poses a low potential risk to both surface water and groundwater, therefore I am of the opinion that the barns will likely pose a lower potential risk to surface water and groundwater and do not need to be risk screened, see the Approvals Policy, section 8.13.



# 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): Scaled air photo from Google Earth (dated October 2021)

Margin of error (if applicable): \_\_\_\_\_

Requirements (m): Category 1: 198 Category 2: 265 Category 3: 331 Category 4: 529

Technology factor:  YES  NO

Expansion factor:  YES  NO

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

### LAND BASE FOR MANURE AND COMPOST APPLICATION

Land base required: 376.2 ac or 152.3 ha (black)

Land base listed: 430 ac (black)

Area not suitable: see comments on pages 21 and 22

Available area 154 ha

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

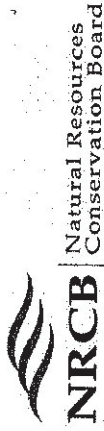
### GRANDFATHERING

Already completed:  YES  NO  N/A

If already completed, see A determination is being made as part of this decision, see Decision Summary RA22002

# 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
Harvey Megli	NE 20 45 20	850 m	Agricultural	1	1,010	n/a	Yes
Scott Keller	NW 21 45 20	900 m	Agricultural	1	800	n/a	Yes
James Penner	SE 23 45 20	900 m	Agricultural	1	820	n/a	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)
				See comments on previous and following pages	
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)**



**Manure Spreading Agreement**

This agreement is between Rylan Penner, manure producer, and

James Penner manure receiver.

Length of agreement: This agreement is valid for a time period of 2 years  
(minimum of one year after a decision on the application is issued).

Legal land location	Soil type <sup>1</sup>	Acres suitable for manure spreading <sup>2</sup>
<u>NE 17 45 20</u>	<u>Black</u>	<u>160</u> 60 ha available

<sup>1</sup> Soil type choices: Dark brown and brown, Grey wooded, Black, Irrigated.

<sup>2</sup> Land within required setbacks from water bodies, water wells, residences, etc. is not to be included.

Other comments:

Manure producer (Confined Feeding Operation) Legal Land Location SW-29-45-20-W4

Jan 13                      [Signature]                      Rylan Penner                      R+T Penner Farms  
Date of signing                      Signature                      Print name                      Corporate name(if appl)

Manure Receiver – Landowner(s)<sup>3</sup>

Jan 13                      [Signature]                      James Penner                      \_\_\_\_\_  
Date of signing                      Signature                      Print name                      Corporate name(if appl)

\_\_\_\_\_  
Date of signing                      Signature                      Print name                      Corporate name(if appl)

<sup>3</sup> All registered owners of land, or authorized signing authorities must sign.

**Manure Spreading Agreement**

This agreement is between Rylan Penner, manure producer, and

Rylan Penner manure receiver.

Length of agreement: This agreement is valid for a time period of 10 years  
(minimum of one year after a decision on the application is issued).

w 1/2  
w 1/2

Legal land location	Soil type <sup>1</sup>	Acres suitable for manure spreading <sup>2</sup>
NW-10 -45 -20	Black	150 54.5 ha available
SW-28 -45 -20	Black	60 21.5 ha available
SW-31 -45 -20	Black	60 17 ha available

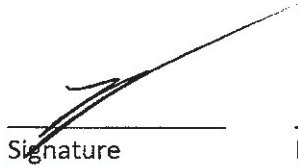
<sup>1</sup> Soil type choices: Dark brown and brown, Grey wooded, Black, Irrigated.

<sup>2</sup> Land within required setbacks from water bodies, water wells, residences, etc. is not to be included.

Other comments:

Manure producer (Confined Feeding Operation) Legal Land Location SW-28 -45 -20

Jan 13  
Date of signing

  
Signature

Rylan  
Print name

R+T Penner Farms  
Corporate name(if appl)

Manure Receiver – Landowner(s)<sup>3</sup>

Jan 13  
Date of signing

  
Signature

Rylan  
Print name

\_\_\_\_\_  
Corporate name(if appl)

\_\_\_\_\_  
Date of signing

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print name

\_\_\_\_\_  
Corporate name(if appl)

<sup>3</sup> All registered owners of land, or authorized signing authorities must sign.

# 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. Barn 3 New Build  
 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 <sup>3</sup> )
1.	316 ft	50 ft	0	6-8 weeks (per flock cycle)
2.				
TOTAL CAPACITY				

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

### Liner protection

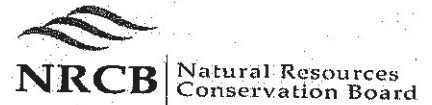
Describe how the physical integrity of the liner will be maintained  
Rebar In floor

#### NRCB USE ONLY

Requirements met:  YES  NO



# 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 (cont.)

### Concrete liner details

Concrete thickness <b>4.25 inches</b>	Method of sulphate protection: <b>Type 10 with flyash or equivalent</b>
Concrete strength <b>25 MPA</b>	Concrete reinforcement size and spacing <b>12 inches on center</b>

Concrete requirements can be found in Technical Guideline Agdex 096-93  
 Guideline minimums:  
 Solid manure: 25MPa (D)  
 Solid manure (wet): 30MPa (C)  
 Method of sulphate protection:  
 Type 50 or Type 10 with fly ash or equivalent

**NRCB USE ONLY**

Requirements met:  YES  NO  
 Condition required:  YES  NO  
 Report attached:  YES  NO

### Additional information (attach as required)

**NRCB USE ONLY**

Nine month manure storage volume requirements met  YES  YES With STMS  NO

Depth to water table: estimated at 2 m Requirements met:  YES  NO

Depth to Uppermost groundwater resource: 16.5 m Requirements met:  YES  NO

ERST completed:  see ERST page for details

**Surface water control systems**

Requirements met:  YES  NO Details/comments:

**Concrete liner details**

Leakage detection system required:  YES  NO If yes, please explain why.