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JUL 13 2015

MUNICIPAL GOVERNMENT

## SITE ASSESSMENT

### For Large Livestock Operation Proposals (300 Animal Units or more)

#### 1.0 Purpose

The set up, or expansion, of a livestock operation that has 300 Animal Units or more is subject to [Part 7 of The Planning Act](#). This includes consideration as a conditional use by the municipal council or planning district board. It also includes a review by the Technical Review Committee (TRC) appointed by the Minister of Local Government. The [Technical Review Committee Regulation](#) requires a site assessment to help the committee do its review and allow people who will be affected by the livestock operation to comment on the proposal.

#### 2.0 Assistance

For assistance in completing the Site Assessment Form please refer to the following.

For links to resources, click on the **highlighted underlined items**.

For additional information on a particular item, please click on the (?) "Learn More" icon.

For definitions, click on the [Glossary of Terms](#).

For help with mapping, contact your [Community and Regional Planning Regional Office](#).

For additional help, contact the [Technical Review Coordination Unit](#).

### 3.0 Description of Livestock Operation

Operation legal name, if other than the owner's name:

Rising Hope Dairy Inc.

(farm purchased in 2010)

Operation location (project site): NW 30-08-06EPM

Rural Municipality (RM) of Ste Anne

Legal description: section, township, range or river lot(s)

NW 30-08-06EPM

[Manitoba Premises Identification Number:](#)

Municipal tax roll number(s): 119300000TX

Show the location of the operation (project site) on a location map. (See [Location Map](#) for example).

Location Map attached



CVO/Food Safety Knowledge Centre  
545 University Crescent, Winnipeg, MB R3T 5S6  
T 204-945-7663 F 204-945-4327  
traceability@gov.mb.ca

ALVIN PLETT  
PO BOX 37 RR 1  
Landmark, MB ROA OXO

December 12, 2012

Thank you for participating in the Manitoba Premises Identification Program.

This information will assist the province in preventing, preparing for, responding to and recovering from threats affecting animal health or food safety.

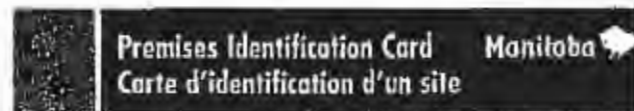
A Manitoba Premises Identification Number(s) has been assigned to the following submitted legal land description(s):

<u>Premises Identification Number</u>	<u>Legal Land Location</u>
MB1011221	NW 16-8-5 E1
MB1025105	NW 30-8-6 E1

Please keep the Manitoba Premises Identification Number(s) in a secure location as it may be required for future traceability and funding programs.

Thank you for your assistance.

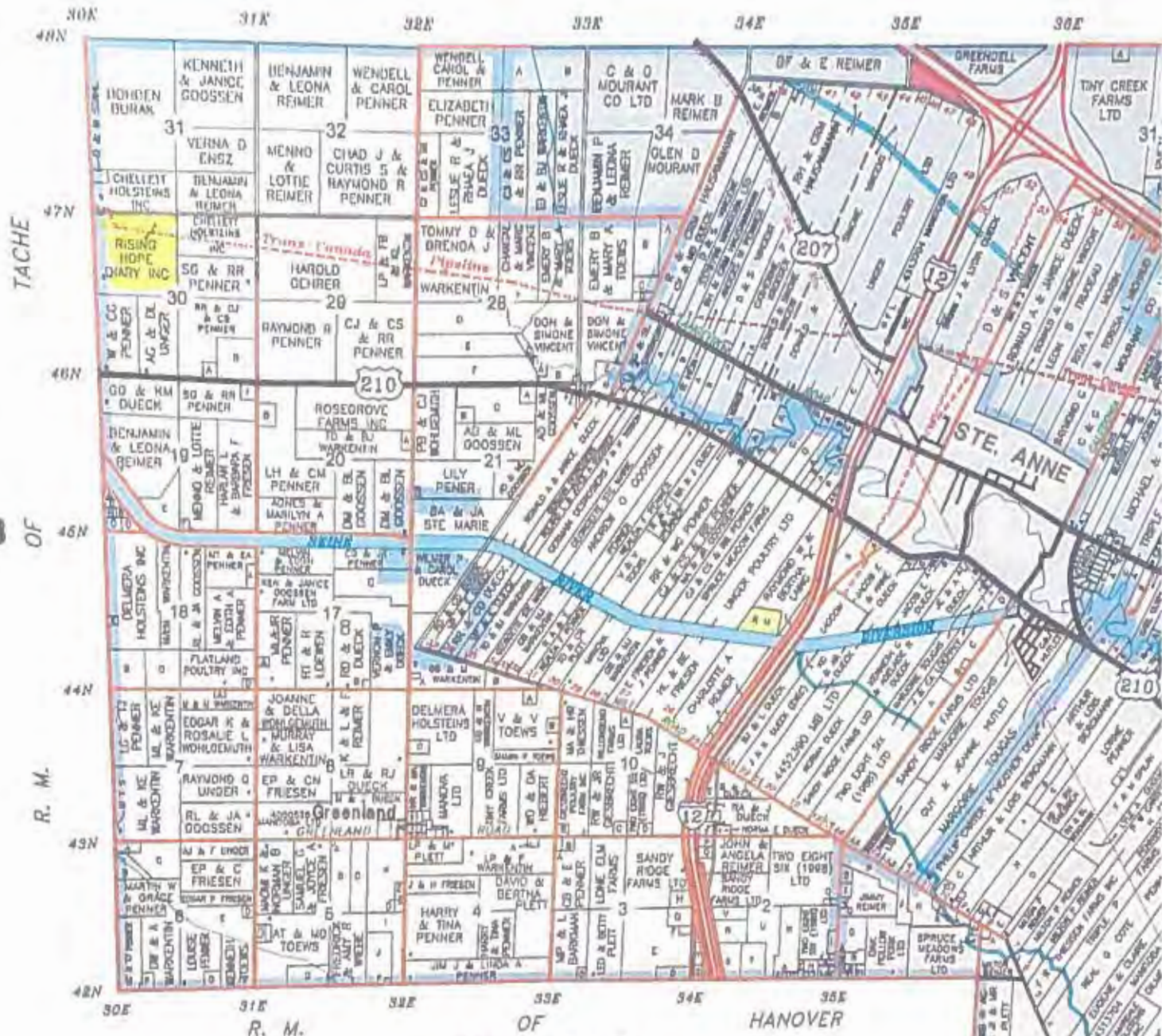
Dr. Wayne Lees  
Chief Veterinary Officer



<u>Premises ID Number</u>	<u>Legal Land Location</u>
MB1011221	NW 16-8-5 E1
MB1025105	NW 30-8-6 E1

For more information please contact your local MAFRI GO Office, email traceability@gov.mb.ca or visit manitoba.ca/agriculture/pid

# RGE. 6 E.P.M.



TACHE  
R. M.  
WP. 8 OF

HANOVER  
R. M.  
TWP. 7 OF

## RGE. 6 E.P.M.

# RURAL MUNICIPALITY OF STE. ANNE



**No. 175**

**STE. ANNE, MANITOBA**

390 TRAVERSE ROAD - BOX 8 DRP 50 RR 1, R9H 1X1  
Ph. (204) 422-0929 Fax (204) 422-0723





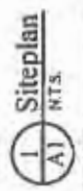
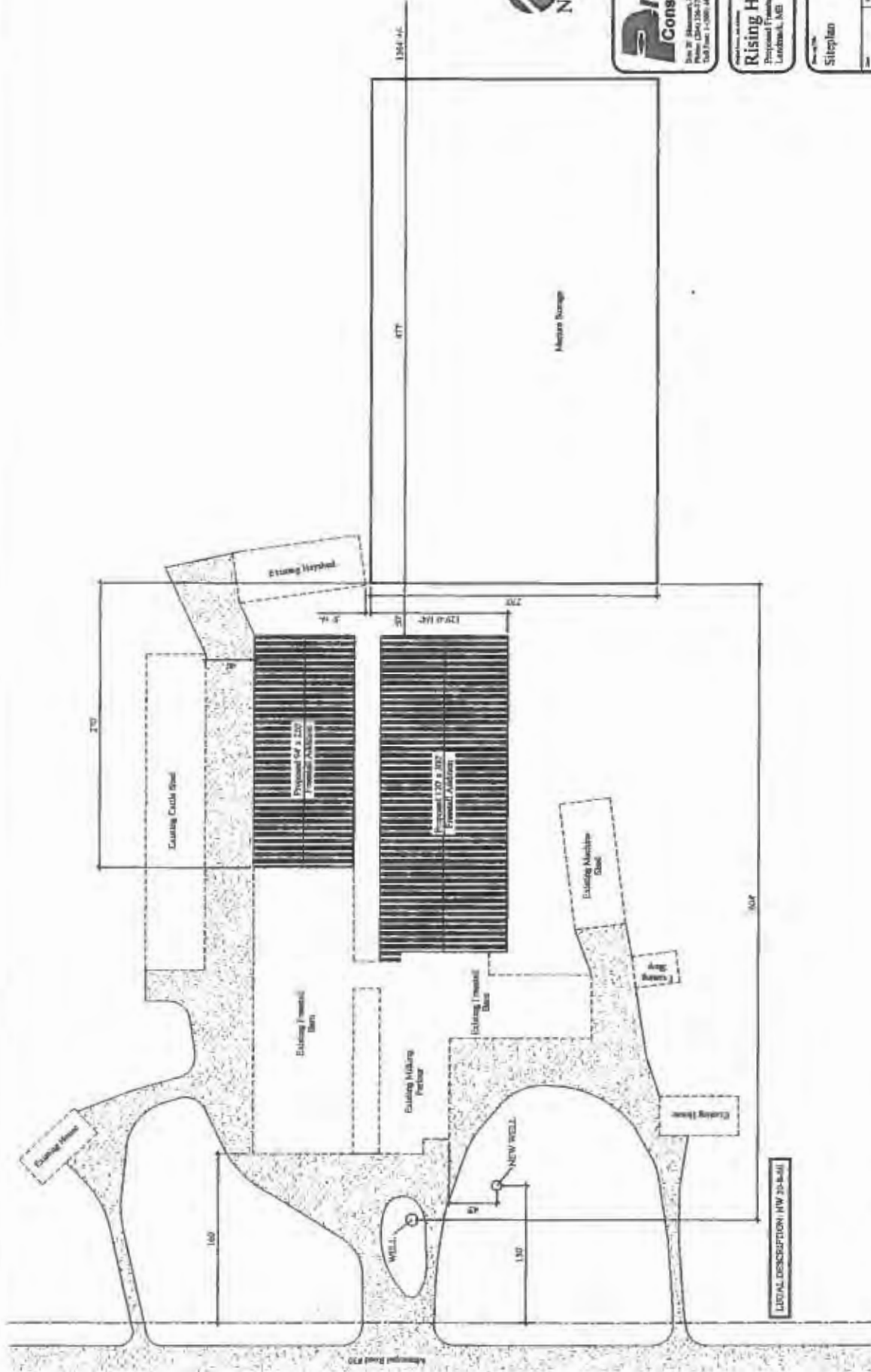
Rising Hope Area Map



**Anfor Construction**  
 200 W. Main Street, Suite 100  
 Portland, ME 04101  
 Phone: (207) 751-1234 Fax: (207) 751-1234  
 Cell: (207) 751-1234

**Rising Hope Farm**  
 Proposed Tractor Barn Addition  
 Landdown, ME

Siteplan		Sheet	A1
Date	May 13, 2014	Drawn	FT
By	AS	Checked	SCD

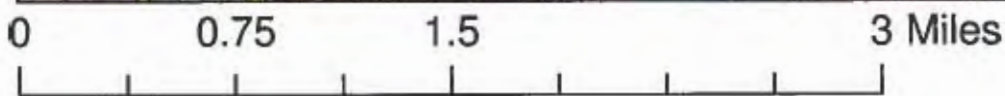
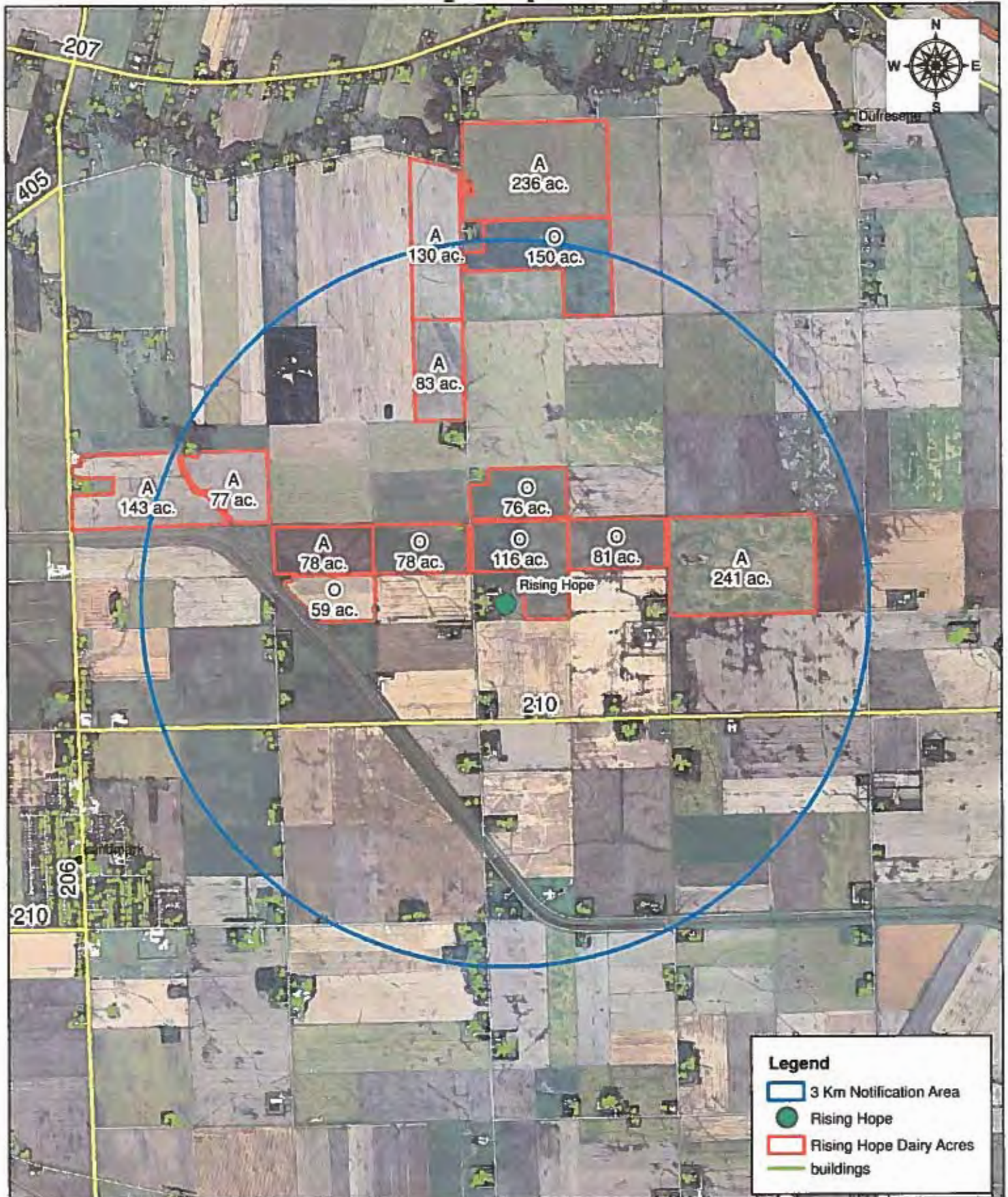


Siteplan

# Rising Hope Dairy



# Rising Hope Dairy





#### 4.0 Nature of Project

- New operation
- Expansion of existing operation

State if any existing buildings will be replaced or demolished. If existing buildings will be reused or expanded, state how they will be reused or expanded.

No existing buildings will be demolished but two new barns each 120 ft x 300 ft will be added. Existing barns as follows will be used: 60 ft x 200 ft (free stall), 66 ft x 96 ft (parlour), 56 ft x 300 ft (heifer barn), 94 ft x 272 ft (free stall).

#### 5.0 Proposed Type and Size of Operation

State the proposed type and size of the operation. (See [Animal Units Calculation Table](#).)

Type of operation (Column B from Animal Units Calculation Table)	Existing number of animals (Column C from Animal Units Calculation Table)	Total Animal Units (Column F from Animal Units Calculation Table)
500 milking cows	225	1200
plus 100 dry cows and associated livestock		

- Animal Units Calculation Table attached

#### 6.0 [Animal Confinement Facilities](#)

##### Outdoor Confined Livestock Area

To ensure that it can be built in a way that the environment is protected, a permit is required for construction and expansion of [confined livestock areas](#) for operations with 300 Animal Units or more. Permits are required by the [Livestock Manure and Mortalities Management Regulation](#) (MR 42/98), under *The Environment Act*.

Confined Livestock Area:  outdoor seasonal feeding area  feedlot  not applicable

##### Indoor Barn/Animal Housing

Indoor Animal Housing:  barn  other (describe) \_\_\_\_\_  not applicable

## Animal Units Calculation Table

A	B	C	D	E	F	G
Animal Type	Type of Operation	Existing Number of Animals	Proposed Additional Number of Animals	Animal Units per Head	Total Animal Units	Annual Confinement Period (Days)
Dairy <sup>1</sup>	Mature cows (lactating and dry) including associated livestock	225	375	2	1,200.00	
	Mature cows (lactating and dry)			1.35	-	
	Heifers (0 to 3 months)			0.16	-	
	Heifers (4 to 13 months)			0.41	-	
	Heifers (> 13 months)			0.87	-	
	Bulls			1.35	-	
	Veal calves			0.13	-	
Beef	Beef cows including associated livestock			1.25	-	
	Backgrounder			0.5	-	
	Summer pasture / replacement heifers			0.625	-	
	Feeder cattle			0.769	-	
Pigs	Sows - farrow to finish (234-254 lbs)			1.25	-	
	Sows - farrow to weaning (up to 11 lbs)			0.25	-	
	Sows - farrow to nursery (51 lbs)			0.313	-	
	Boars (artificial insemination units)			0.2	-	
	Weanlings, Nursery (11-51 lbs)			0.033	-	
	Growers / Finishers (51-249 lbs)			0.143	-	
Chickens	Broilers			0.005	-	
	Roasters			0.01	-	
	Layers			0.0083	-	
	Pullets			0.0033	-	
	Broiler breeder pullets			0.0033	-	
	Broiler breeder hens			0.01	-	
Turkeys	Broilers			0.01	-	
	Heavy Toms			0.02	-	
	Heavy Hens			0.01	-	
Horses	Mares			1.333	-	
Sheep	Ewes			0.2	-	
	Feeder lambs			0.063	-	
Other Livestock	Type:				-	
	Type:				-	
<b>Total AUs</b>					<b>1,200.00</b>	

**Footnotes:**

<sup>1</sup> There are 2 methods for calculating animal units for dairy (Farm Practices Guidelines for Dairy Producers in Manitoba, 1995). You can enter the total number of mature cows in the milking herd under the "Mature cows (lactating and dry) including associated livestock" category and the animal units will be calculated by multiplying this number by 2. This calculation assumes 85 lactating, 15 dry, 12 heifers (0 to 3 months), 36 heifers (4 to 13 months) and 50 heifers (> 13 months) for an operation with 100 mature cows. "Associated livestock" includes all of the heifer calves and replacement heifers. Alternatively, you can enter animal numbers in the individual categories (mature cows, heifers (0 to 3 months), heifers (4 to 13 months) and heifers (> 13 months)) and they will be summed at the bottom of the table. Bulls and veal calves are always calculated separately.

For all other livestock or operation types please inquire with your Manitoba Agriculture, Food and Rural Initiatives GO office to determine the animal units per head.

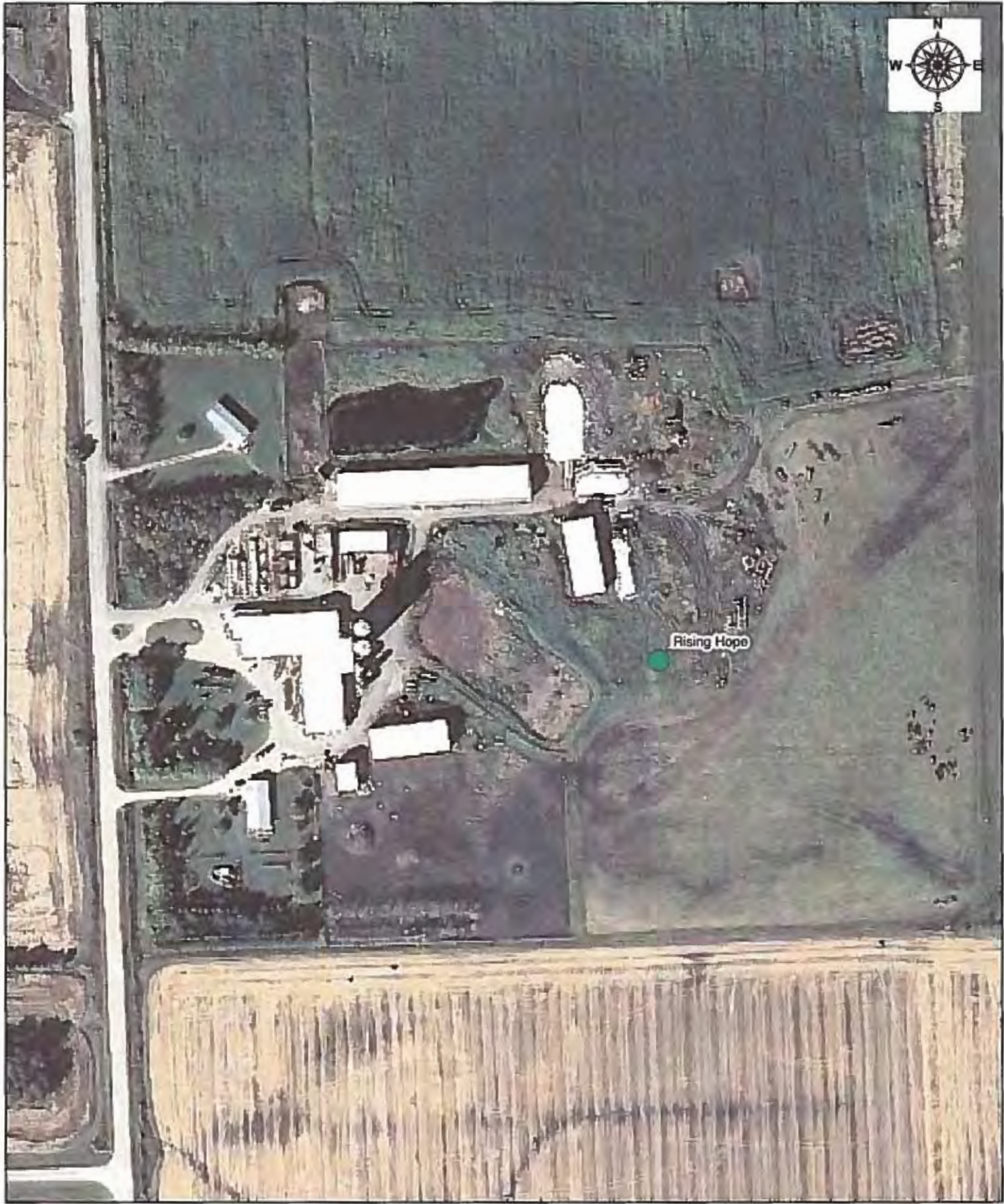
[www.gov.mb.ca/agriculture/contact/agoffices.html](http://www.gov.mb.ca/agriculture/contact/agoffices.html)

A permit under the Livestock Manure and Mortalities Management Regulation is not required for an indoor housing area or barn unless there is a manure storage facility within the building (an under barn storage capable of storing manure for 30 days or more).

Show all existing, proposed buildings and additions to existing buildings on the project site plan. See [Project Site Plan example](#) and the Project [Site Plan Guide](#) for help creating your site plan.

Project Site Plan attached

# Rising Hope Dairy (10/23/2011)



0 0.05 0.1 0.2 Miles

### 7.0 Environmental Farm Planning

Environmental farm planning is a voluntary, confidential self-assessment process designed to help farm managers identify the environmental strengths and weaknesses of their operations.

Do you have an [Environmental Farm Plan](#)  yes  no

If so, is it current (completed within past 5 years)  yes  no - completed in 2007

### 8.0 Water

#### Project Sites Unsuitable for Development

To protect water quality, the [Nutrient Management Regulation](#) (MR 62/2008), under *The Water Protection Act*, prohibits the set up or expansion of nutrient generating facilities in Nutrient Management Zone 4 (Agriculture Capability Class 6, 7 and unimproved organic soils) and Nutrient Buffer Zones. Nutrient generating facilities include barns, confined livestock areas and manure storage facilities.

[Nutrient Buffer Zone](#) as defined in section 3(3) of the regulation includes areas of land along water bodies such as rivers, lakes, streams and drains.

The proposed indoor housing area, barn, confined livestock area and/or manure storage facility:

will   
will not

be located within Nutrient Management Zone 4 (Class 6, 7 and unimproved organic soils) or any Nutrient Buffer Zone.

Determine the agriculture capability class(es) of the project site, and its limitations. This information is available from Manitoba Agriculture, Food and Rural Initiatives (MAFRI) at 204-945-3869 in Winnipeg. Alternatively, operations with GIS mapping software can access information through [Manitoba Land Initiative](#) (MLI) website. In addition, information from MLI can also be viewed on Google Earth. Both the download for Google Earth and the registration for MLI are free. Click [here](#) for instructions under the MLI website.

#### Water Source

To be sustainable, a livestock operation must have access to a sufficient quantity and quality of water for livestock.

## Water source for operation:

- |   |  |
|---|--|
| <input type="checkbox"/> pipeline (public)                        | <input type="checkbox"/> water co-operative                            |
| <input type="checkbox"/> proposed well                            | <input checked="" type="checkbox"/> existing well s- two west of barns |
| <input type="checkbox"/> river                                    | <input type="checkbox"/> lake  |
| <input type="checkbox"/> dugout (dimensions : ____ x ____ x ____) |  |

If using an existing well, provide a copy of the water well log and logs for other wells on the property. Logs can be obtained from Manitoba Conservation and Water Stewardship by calling (204) 945-7418 in Winnipeg; 1-800-214-6497 toll free.

# Statement of Completion

Manitoba Environmental Farm Plan

This To Recognize That

**Connie Plett**


Has Successfully Completed The Environmental Farm Planning Process In The Province Of Manitoba  
As Per The Approved Methodology For Manitoba.

Farm Stewardship Association of Manitoba Inc.



FJ Mc Chair

Date of Issue: 3/6/2007



FJ Mc Executive Director

ESTP Number: FJMB 2006/07-3299

### Source Water Analysis Reports

Annual livestock source water monitoring analysis reports must be submitted to Manitoba Conservation and Water Stewardship for any operations of 300 Animal Units or more.

If an existing livestock operation of 300 Animal Units or more, have you submitted an annual source water monitoring report for the current calendar year?  yes  no

Will livestock have direct access to surface water (not including dugouts)?  yes  no

If yes, identify:

Name of the surface water feature: \_\_\_\_\_ N/A \_\_\_\_\_

List any steps that will be taken to prevent direct access of livestock to the water body.

\_\_\_\_\_ N/A \_\_\_\_\_  
\_\_\_\_\_

### Water Requirements

Protecting the interests of domestic users and the environment, in addition to existing licensees, is the intended purpose of the water rights licensing scheme.

In order to protect the sustainability of water sources, all operations using more than 25,000 litres (5,499 imperial gallons) per day must possess a Water Rights Licence required by the Water Rights Regulation (MR 126/87) under *The Water Rights Act*.

For more information on the Water Rights Licensing process, contact the Water Use Licensing Section at (204) 945-3983 in Winnipeg; 1-800-214-6497 toll free.

### Water Use

To calculate the total water use, go to the Water Requirement Calculation Table.

Maximum daily use: 16,200  imperial gallons or  litres

Maximum annual use: 27  acre-feet or  cubic decameters

Water Requirement Calculation Table attached

### Groundwater (Contamination Risk Protection)

Improper storage and handling of manure or mortalities increases the risk of contaminating groundwater. Beneficial management practices (BMP), mitigation measures and requirements for the permit process reduce this risk. Soil testing, manure management planning and proper engineering, along with construction and management of manure storage structures reduce the risk of contaminating groundwater.





L1531889-COFC

L1531889

LD  
OCT 14/14  
9:30

----- SOURCE WATER SAMPLING

Name of Operation

Rising Hope Inc

Mailing Address

Bx37, R.R.1 Landmark

Postal Code

ROA 0X0

Location of Operation

NW30-08-06E

Qtr Sec Twp Rge E/WPM or River Lot/Parish

Rural Municipality

St. Anne

Name of Contact

Alvin Platt

Contact Numbers

204-335-4980

204-371-5744

Business

Residence

Cellular

Facsimile

Water Source:

Well

Well location (legal description)

204-335-4760

NW30-08-06E

Surface water

Name of surface water

Other source

Sampling location (legal description)

''

Specify (e.g. name of water cooperative)

Where was the water sample collected? (e.g. outside hydrant, house outside tap, kitchen tap)

Hydrant in Dairy Barn

Date and time of sample collection

Oct 14, 9 AM

Comments:

WAS \$100 by Mastercard

**PAID**

Remember to attach analytical results!

Proprietary (confidential) information will be protected in accordance with Manitoba law. Personal information is collected under the authority of *The Environment Act*, the *Livestock Manure and Mortalities Management Regulation*, and will be used for administration and enforcement purposes. Information collected is protected by the privacy provisions of *The Freedom of Information and Protection of Privacy Act*. If you have any questions, contact the Access & Privacy Coordinator, Box 85, 200 Saulteaux Crescent, Winnipeg MB R3J 1W3; 1-204-945-4170.

Check off the mitigation measures used for the existing components of the operation that may pose a risk of contamination. Also check off any measures that may be used with the proposed components for this expansion, if applicable:

	Existing	Proposed	
Manure is stored in a storage facility built by permit or registered by Manitoba Conservation and Water Stewardship	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Storage includes leachate collection	<input type="checkbox"/>	<input type="checkbox"/>	
Earthen storage has between 400 and 500 days storage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(currently)
Steel/concrete tank has between 250 and 500 days storage	<input type="checkbox"/>	<input type="checkbox"/>	
Manure storage facility meets required setbacks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Field storage (solid manure) locations are changed annually	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Field storage meets required setbacks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
All application fields are soil tested annually for nitrate-N and Olsen phosphorus	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
All manure is applied according to a manure management plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Licensed commercial manure applicator is used to apply manure	<input type="checkbox"/>	<input type="checkbox"/>	self applied
Abandoned wells have been properly sealed	<input type="checkbox"/>	<input type="checkbox"/>	N/A
			None located

Other:

Note: All liquid manure will be applied using a pipeline with injection into the soil

All solid manure will be applied using surface application and incorporation within 24 hours

### Building in Flood Areas

The [Livestock Manure and Mortalities Management Regulation](#) prohibits an operator from putting a manure storage facility within the boundaries of the 100-year flood plain elevation. [Manure storage facilities](#) that are constructed with protection for a flood-water level at least 0.6 meters higher than the 100-year flood water level are exempt.

The [Designated Flood Area Regulation](#) under *The Water Resources Administration Act* requires a Designated Flood Area Permit before a proposed structure (such as a barn) can be built within a Designated Flood Area.

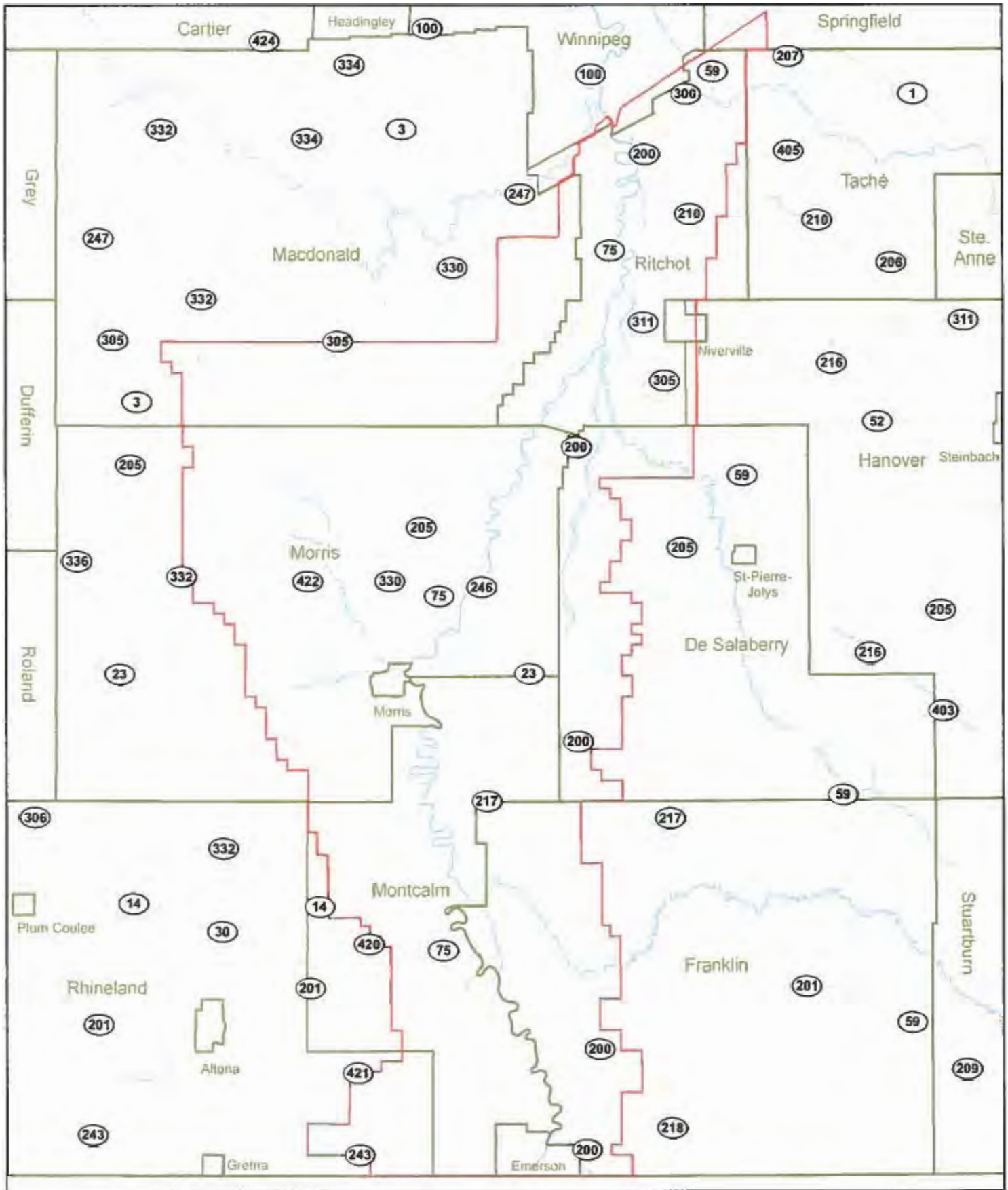
The flood protection level for structures located within a Designated Flood Area is the site specific design flood level plus freeboard, as provided by the Hydraulic Forecasting Branch of Manitoba Infrastructure and Transportation. Contact the Hydrologic Forecasting Branch at (204) 945-2121 in Winnipeg; 1-800-214-6497 toll free.

The proposed site:

is  is not

located in a Designated Flood Area: [Red River Valley Designated Flood Area](#) or [Lower Red River Designated Flood Area](#)

**Note:** At the time a permit is issued, verification is needed to ensure any proposed structure(s) are located within the 100-year flood plain elevation; or at an elevation set by Manitoba Infrastructure and Transportation.



## Red River Designated Flood Area

- Municipal Boundaries
- Provincial Roadways
- Designated Flood Area

# Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	IG/day per animal in summer	IG/day (Imperial gallons per day)
<b>Beef/Dairy/Bison</b>				
Feeder/heifer/steer (600 lb.)		5	9	-
Feeder (900 lb.)		7	12	-
Feeder (1250 lb.)		10	15	-
Cow/calf pair		12	15	-
Dry cow	100	10	12	1,200
Milking cow	500	25	30	15,000
Bison		8	10	-
<b>Horses</b>				
Horses		8	11	-
<b>Hogs</b>				
Sow (Farrow/wean)			6.5	-
Dry Sow/Boar			4	-
Feeder			3	-
Nursery (33 lb.)			2	-
<b>Chickens</b>				
Broilers			0.035	-
Roasters/Pullets			0.04	-
Layers			0.055	-
Breeders			0.07	-
<b>Turkeys</b>				
Turkey Growers			0.13	-
Turkey Heavies			0.16	-
<b>Sheep/Goats</b>				
Sheep/Goats			2	-
Ewes/Does			3	-
Lambs/Kids (90 lb.)			1.6	-
<b>TOTAL (IG/day)</b>				<b>16,200</b>

For beef, dairy, bison and horse enterprises:  
 Use summer numbers if appropriate for the operation. Otherwise base projections on winter values.  
 Always use the greater of the two values.

Enter this number on page 7 of Application Form.

**Other consumption values:**

Normal household consumption:  
 40-55 IG/day per person or  
 (180-250 l/day/person)

Hydrant flow:  
 10 imperial GPM (45 l/min)

Unit Conversions		
Total per day	Total per year	Unit
16,200	5,913,000	IG
73,645	26,880,498	litres
0.074	27	cubic decametres (dam <sup>3</sup> )

Enter this number on page 7 of Application Form.

Conversion Factor: 1 IGPM = 4.546 l/m

### Watershed Management Planning

Integrated watershed management planning is a co-operative effort by local residents, stakeholders and governments to create a long term plan to manage water and land-based activities for watersheds.

What are the names of the watershed and sub-watershed where the livestock operation and the fields identified for manure application are located?

Name of watershed(s): Seine River Integrated Watershed

Name of sub-watershed(s): \_\_\_\_\_

Name of Integrated Watershed Management Plan for the proposed project site, if applicable: Seine - Rat River Conservation District

For more on Integrated Watershed Management Planning, call Watershed Planning and Programs at (204) 945-7408 in Winnipeg; 1-800-214-6497 toll free.

### 9.0 Manure

The Livestock Manure and Mortalities Management Regulation sets requirements for the use, management and storage of livestock manure in agricultural operations, to ensure it is handled in an environmentally sound manner. For more information on this, call Manitoba Conservation and Water Stewardship at (204) 619-2230 in Winnipeg.

Improper storage, handling and/or land application of manure can contaminate water and/or cause unacceptable odours for neighbours. The following is used to assess the manure management system.

#### Manure Type

The type of manure generated and used by the operation influences storage, handling and land application options available.

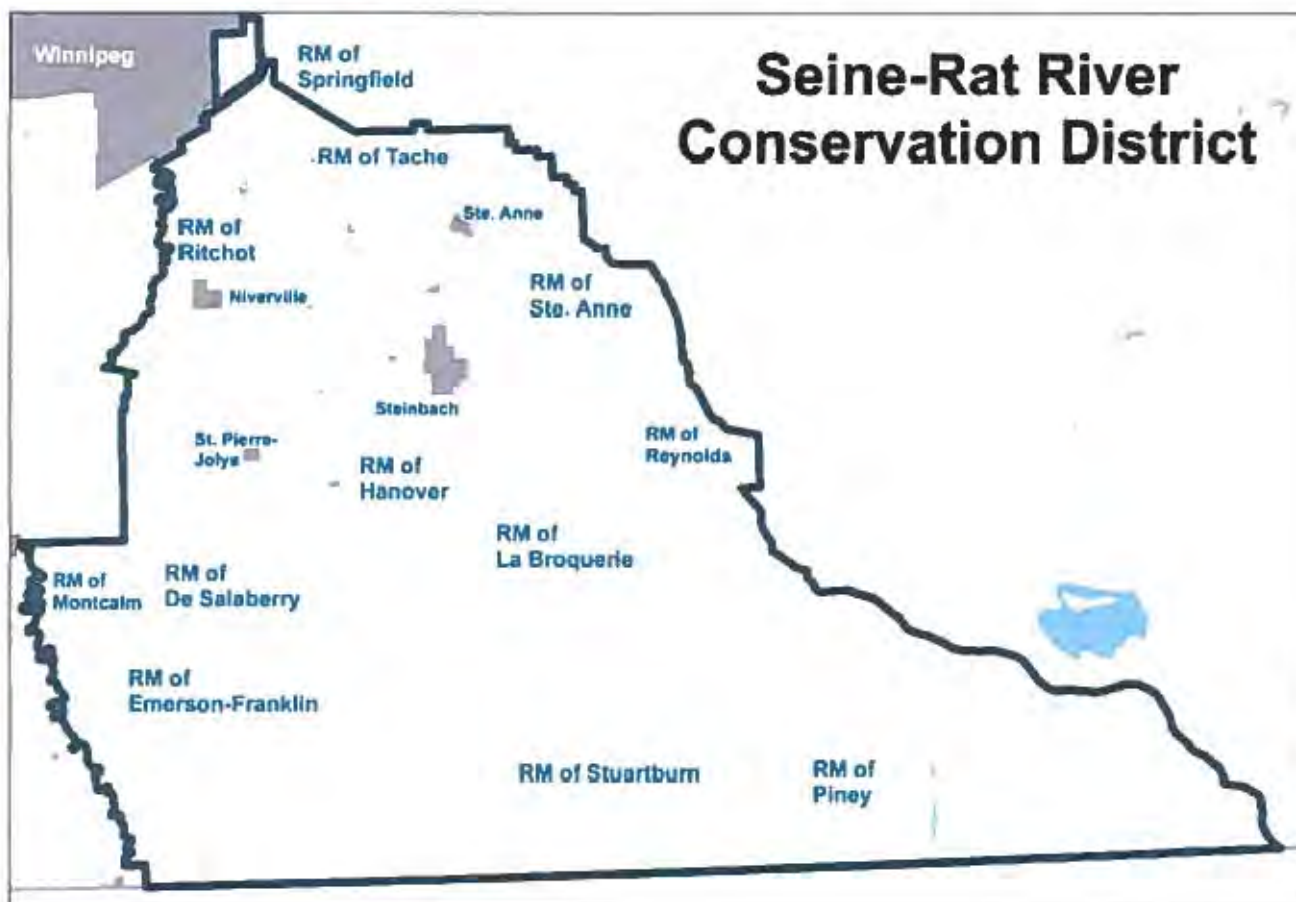
What type(s) of manure will be generated?

solid       semi-solid       liquid

#### Manure Volume or Weight

Manure production can be estimated using the Manure Production Calculator Table. The sizing of the manure storage is the responsibility of the operator and must be constructed in accordance with the Livestock Manure and Mortalities Management Regulation. Design and construction of a manure storage facility is dependent on the type of structure; earthen manure storage facilities must have between 400 and 500 days capacity, a steel or concrete storage tank must have between 250 and 500 days capacity. This ensures the facility has sufficient capacity eliminating the need for winter application.

What will be the total volume or weight of manure generated annually by the livestock operation? (See Manure Production Calculator Table.)

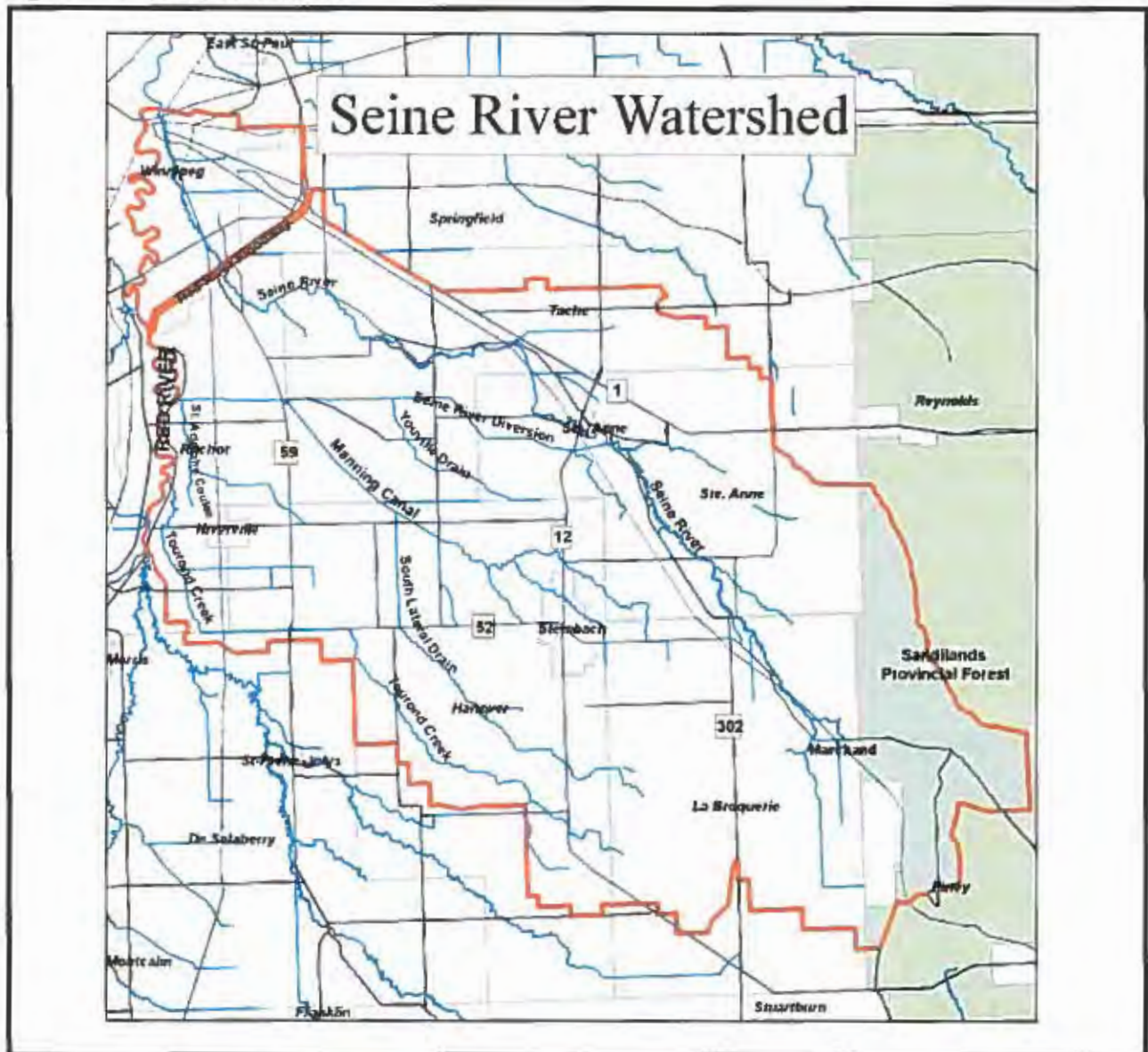


## 3.0 Seine River Watershed

### 3.1 Location and Size

Located in southeastern Manitoba, the Seine River Watershed (Figure 1) is approximately 2,509 square kilometres in size. The Seine River has its headwaters in the Sandilands Provincial Forest, near the village of Marchand. The river meanders northwest to the town of Ste. Anne where the Seine River Diversion channels a portion of the flow west to the Red River. Between Ste. Anne and the Red River, the Diversion is joined by a number of tributaries, including Youville Drain, Manning Canal and St. Adolphe Coulee. From Ste. Anne, the Seine River continues northwest, passing under the Red River Floodway through the Seine River Siphon and joins the Red River in Winnipeg.

Figure 1 – Seine River Watershed





# Seine River Watershed (05OH)



Watershed	
	Lakes & Rivers (3rd order and greater)
	Provincial Forests
	Provincial Highways
	Roads
	Conservation Districts
	Municipality



Note: liquid volume calculation includes cows and associated livestock however associated livestock will produce dry manure which will be stored and handled separately.

liquid volume: 689,850 cu ft solid weight: approx 1932 tons/year @ 35 lb/cu ft

**Manure Production Calculator Table attached** Note: Manure from the milking cows as well as from 40 dry cows will be handled as a liquid and stored in the EMS. Manure from 60 dry cows as well as from the heifers and calves will be handled as a solid and placed in a field storage until land applied. By using the manure production figure of 3.5 cu ft/cow/day in your table we have overestimated liquid manure production by approximately 1/3 as only manure from the cows will be placed in the EMS.

### Manure Storage Type and Capacity

The type of storage system used will affect the capacity requirements for the manure storage facility or field storage area.

What type of **manure storage facility** will be used by the operation?

- under-barn concrete  **earthen manure storage**  concrete tank(s)  
 steel tank(s)  **field storage**  **molehill**

Provide the dimensions of the existing and/or proposed manure storage facilities, if applicable. (See **Existing and Proposed Manure Storage Facility Dimensions Table.**)

Existing and Proposed Manure Storage Facility Dimensions Table attached

- will use existing manure storage. manure storage period will be reduced to approx 260 days.

### Odour Control Measures (project site)

Barns and manure storage facilities can be significant sources of livestock odours. The use of manure storage covers and shelterbelts can reduce this, particularly for neighbours in the vicinity of the operation.

What odour control measures are you planning to use?

Manure storage cover:  yes  no

Type of cover: Manure will crust over in storage reducing odours

Shelterbelt planting:  yes  no  existing shelterbelt

Other measures (specify): - will have two row shelterbelt north and south of yard extending 1080 ft from west property line.

### Manure Treatment

Under *The Environment Act*, the director must not issue a permit for the modification, expansion, or construction of a manure storage facility accommodating an increase in the number of animal units for pigs, unless the manure is treated using anaerobic digestion or another environmentally sound treatment that is similar to or better than anaerobic digestion, according to Manitoba Conservation and Water Stewardship.

Does your proposal include anaerobic digestion or another environmentally sound treatment for manure?

- yes  no  not applicable

Animal Type (A)	Animal Sub-type (B)	Daily Manure Production				Production Period <sup>2</sup> (Days) (G)	Number of Animals <sup>3</sup> (Capacity) (H)	Total Manure Volume (ft <sup>3</sup> ) (F×G×H)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)					
		References (C)	Manure Type (D)	Default Manure Production (ft <sup>3</sup> /animal/day) (E)	Operation Manure Production <sup>1</sup> (ft <sup>3</sup> /animal/day) (F)									
										Default Manure Production (ft <sup>3</sup> /year/bird space)	Operation Manure Production <sup>1</sup> (ft <sup>3</sup> /year/bird space)			
Dairy (milking cows <sup>4</sup> and associated livestock)	Free Stall		Semi-Solid <sup>5</sup>	3.5				0.0						
			Solid	3.4										
			Liquid <sup>5</sup>	3.5	3.5	365	540	680,850.00	4,297,703.5					
			Semi-Solid <sup>1</sup>	3.8										
			Solid	3.5										
			Liquid <sup>6</sup>	3.8										
			Solid	3.0	3.0	365	60	65,700.00	0.0					
			Liquid	0.5										
			Solid	1.2										
			Solid	0.73										
Beef	Beef cows including associated livestock Backgrounder (200 day)		Solid	0.85	0.85	365	250	77,562.50						
	800 lb yearling replacement dairy heifers 400 lb dairy calves		Solid	0.5	0.5	365	250	45,825.00						
	Sows - farrow to finish (234 - 254 lbs)		Liquid	2.3					0.0					
	Sows - farrow to wean (up to 11 lbs)		Liquid	0.8					0.0					
Pigs	Sows - farrow to nursery (51 lbs)		Liquid	1					0.0					
	Weanings, Nursery (11 - 51 lbs)		Liquid	0.1					0.0					
	Grower/Finisher (51 - 249 lbs)		Liquid	0.25					0.0					
Animal Type	Type of Operation	Yearly Manure Production				Production Period <sup>2</sup> (Days)	Number of Birds <sup>1</sup> (Capacity)	Total Manure Volume (ft <sup>3</sup> ) (F×G×H)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)					
		Default Manure Production (ft <sup>3</sup> /year/bird space)		Operation Manure Production <sup>1</sup> (ft <sup>3</sup> /year/bird space)										
		Chickens	Broilers - floor <sup>8</sup>	1.23										
			Broiler breeder hens <sup>7</sup>	2.3										
			Broiler breeder pullets <sup>8</sup>	0.99										
			Roasters - floor <sup>8</sup>	1.16										
			Layers - cage <sup>8</sup>	2.33										0.0
			Layers - floor <sup>8</sup>	1.88										
			Layers - solid pack <sup>8</sup>											
			Pullets - cage <sup>8</sup>	0.71										0.0
			Pullets - floor <sup>8</sup>	0.75										
			Pullets - solid pack <sup>8</sup>											
		Turkeys	Broilers <sup>8</sup>	2.03										
			Heavy ions <sup>8</sup>	5.58										
			Heavy hens <sup>8</sup>	3.32										

Siting of a manure storage facility in accordance with all requirements of the Livestock Manure and Mortalities Management Regulation (M.R. 43/98) is the responsibility of the operator.

Instructions and footnotes:

<sup>1</sup> ENTER the manure production estimate for your operation. If no estimate is available, use the default value provided in column E. References for default daily and yearly manure production are provided in column C.

<sup>2</sup> ENTER the number of days worth of manure that will be produced. For earthen manure storage facilities the minimum storage requirement is 400 days. For steel and concrete manure storage facilities the minimum storage requirement is 250

<sup>3</sup> ENTER the total number of animals or birds that the operation can hold (e.g. barn or feedlot capacity).

<sup>4</sup> Milking cows includes all lactating and dry cows.

<sup>5</sup> Default manure production estimates for semi-solid and liquid dairy manure include manure and washwater from the milking parlour.

<sup>6</sup> 2 inches of wood shavings or 4 inches of straw placed on floor. Manure and litter removed from barn at 25% moisture content, with a density of 20 lb/ft<sup>3</sup>.

<sup>7</sup> One-third litter, floor, two-thirds slatted floor. Manure and litter removed from barn at 50% moisture content, with a density of 25 lb/ft<sup>3</sup>.

<sup>8</sup> Manure removed from barn at 90% moisture content with a density of 59 lb/ft<sup>3</sup>.

<sup>9</sup> Poultry operations using litter (solid pack) must provide an estimate of yearly manure production.

If yes, please describe \_\_\_\_\_

### Manure Application Method

The [Livestock Manure and Mortalities Management Regulation](#) requires the registration of annual manure management plans for new or expanding operations with 300 Animal Units or more.

Does the operation currently file an annual [Manure Management Plan](#) with Manitoba Conservation and Water Stewardship? (For operations with 300 Animal Units or more, only)

yes  no

Manure application methods and the season in which manure is applied affect odour, nutrient availability, crop response, land base requirements and the risk of water contamination.

Proposed application method: - all liquid manure will be injected into the soil

broadcast  broadcast and incorporation within 48 hours  injection

The [Livestock Manure and Mortalities Management Regulation](#) prohibits the application of manure from November 10 of one year to April 10 of the following year (winter application).

Time of year for application:  spring  summer  fall

The [Livestock Manure and Mortalities Management Regulation](#) puts restrictions on fall application of manure in the Red River Valley Special Management Area.

The proposed spread fields:

are

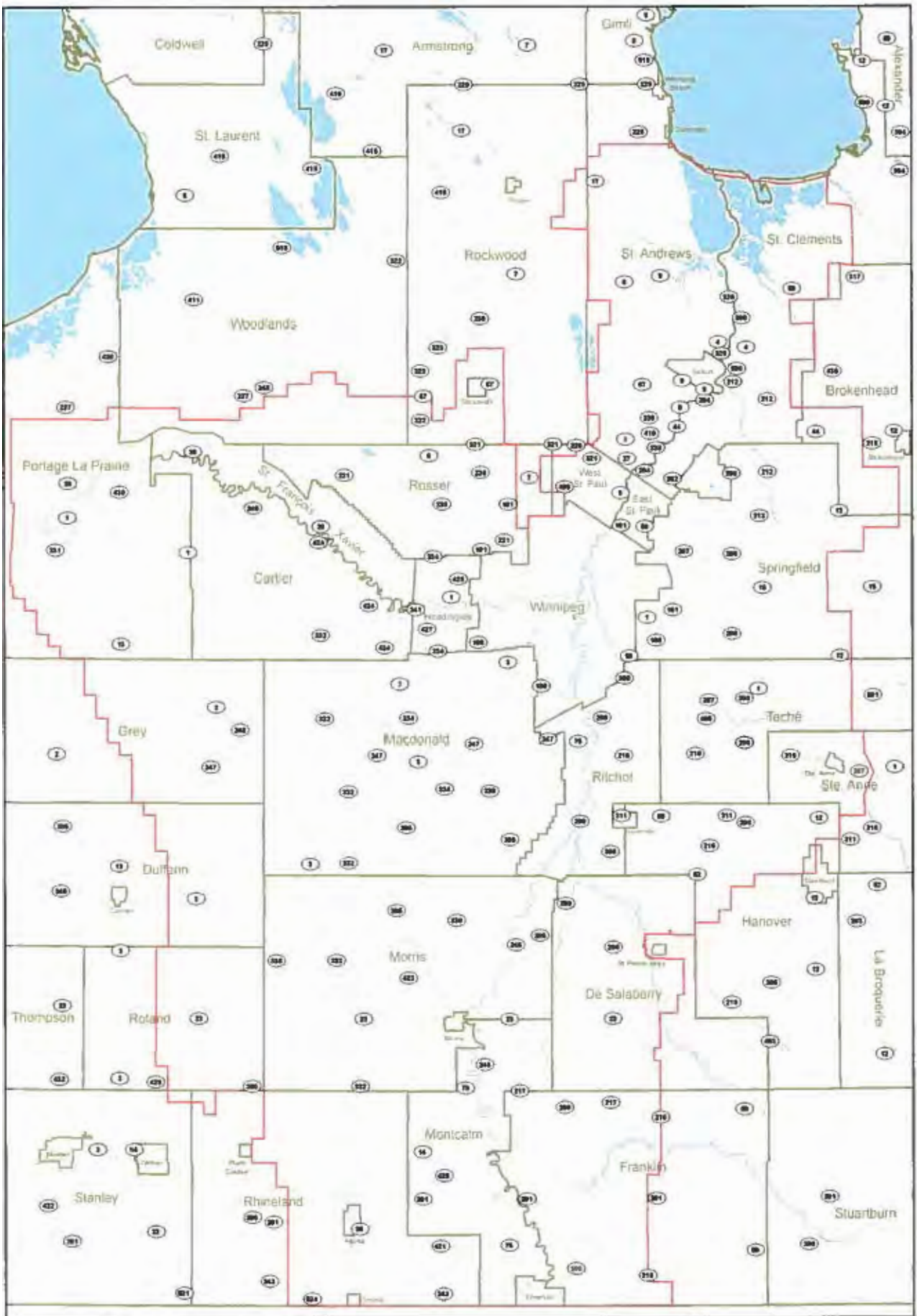
are not

in the [Red River Valley Special Management Area](#).

### Land Available for Manure Application

The land available for manure application includes all suitable land (owned, leased or under agreement) that is available to the operation for manure application.

Under the [Livestock Manure and Mortalities Management Regulation](#) and the [Nutrient Management Regulation](#), application of nutrients is not permitted on Agriculture Capability Class 6, 7 and unimproved organic soils (Nutrient Management Zone 4) and within Nutrient Buffer Zones.



**Red River Valley  
Special Management Area**

- Municipal Boundaries
- Provincial Roadways
- Red River Valley Special Management Area



Areas of a field that are Class 6, 7, unimproved organic soils (Nutrient Management Zone 4) or areas within the nutrient buffer zones are considered unsuitable for manure application. In addition, fields with 60 parts per million (ppm) Olsen phosphorus (P) in the top six inches (15 centimetres) of soil cannot be included in the land base calculation.

Nutrients cannot be applied within the Nutrient Buffer Zones as outlined in the Nutrient Management Regulation (62/2008) and illustrated in the [Setback Requirements From Water Features Table](#).

**Has the setback area for all water features been observed and excluded from land base calculations for this operation?**

yes

no

Client: Alvin Pielt  
 Location: Landmark, MB  
 Date: 07-May-13

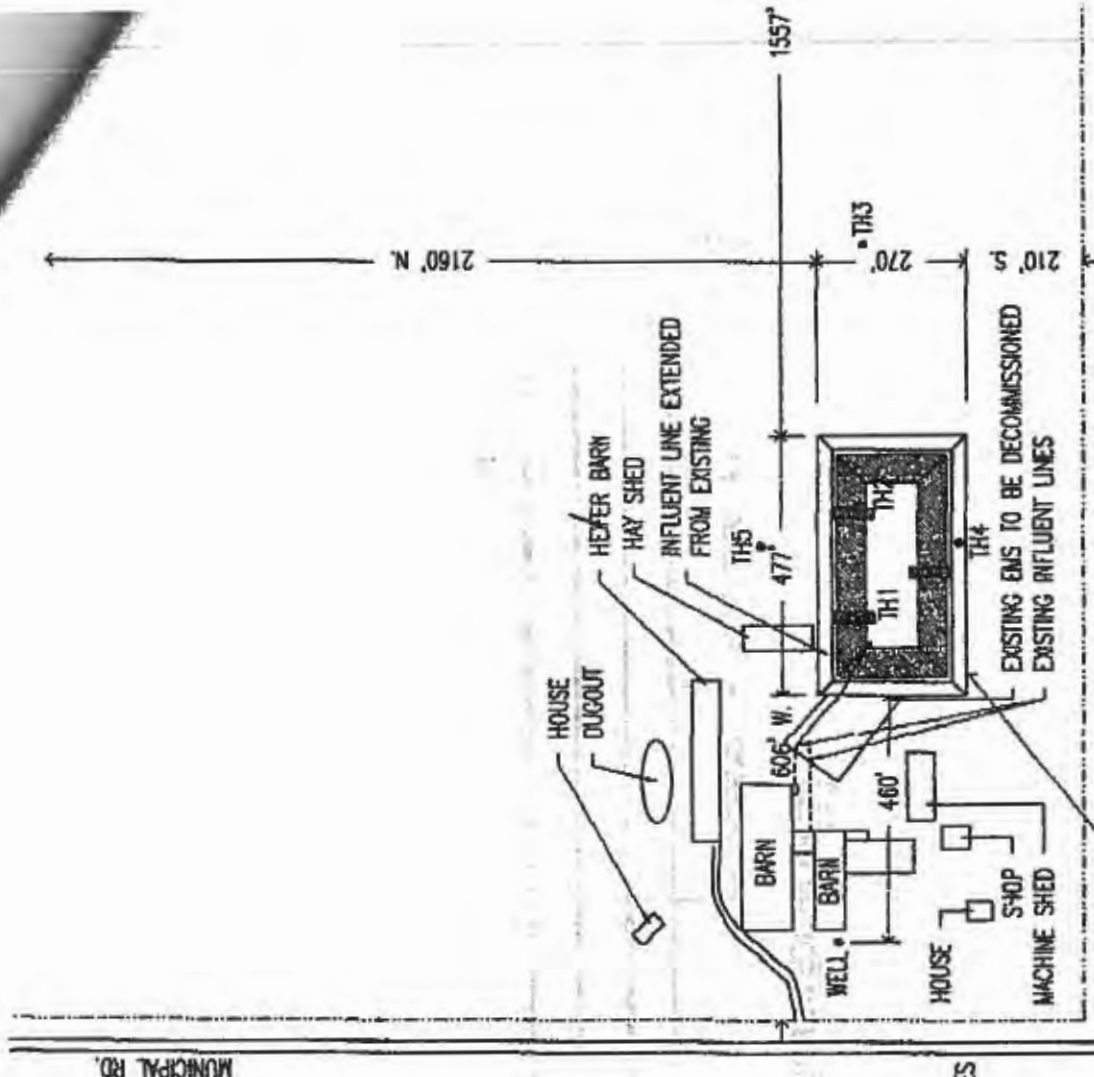
**Earthen Manure Storage Worksheet - Balanced Cut/Fill In-Situ**

Cell #1			
Length, ft	410		410
Width, ft	200		200
Depth, ft	13		13
Cut Depth	7.75		7.75
Fresboard, ft	2		11.5
Fill Height	5.25		5.25
Interior Slope	4		4
Exterior Slope	5		5
Berm Width	10		10
Bottom Width	98		98
Bottom Length	308		308
Top Area	82000		82000
Bottom Area	29376		29376
Design Surface Area	72486		34344
Total Volume	695309		695309
Design Volume	542740	Storage volume loses bottom	47742 Available
Cut Area	58144	1.5' of sludge and liquids unable	58144
Cut Volume	332658	to be removed with typical pumps	332658
Fill Shrinkage, %	30		30
Fill Volume	314606		314606
			494999

**Manure Production Calculations**

Livestock Description	Animal #'s	Manure Production (cu ft/day)	Storage Period (days)	Total (cu ft)
Dairy	225	4.4 (27.46 imp gal/cow)	500	494999
				<b>494999.673 Total</b>





MUNICIPAL RD.

LANDMARK, MB  
APPROX. 2.0 MILES

1664 TO MARKET  
RESIDENCE

	PROJECT NAME <b>RAISING HOPE DAIRY</b> NW 30-08-6E
	SHEET TITLE <b>SITE PLAN</b>
	DATE DRAWN <b>NOVEMBER 2013</b>
THE DRAWER IS THE PROPRIETOR OF ALL RIGHTS RESERVED SOUTH-MAN ENGINEERING 1000 1/2 10TH AVENUE S.W. GRAND RAPIDS, MI 49500 TEL: 616-771-1111	

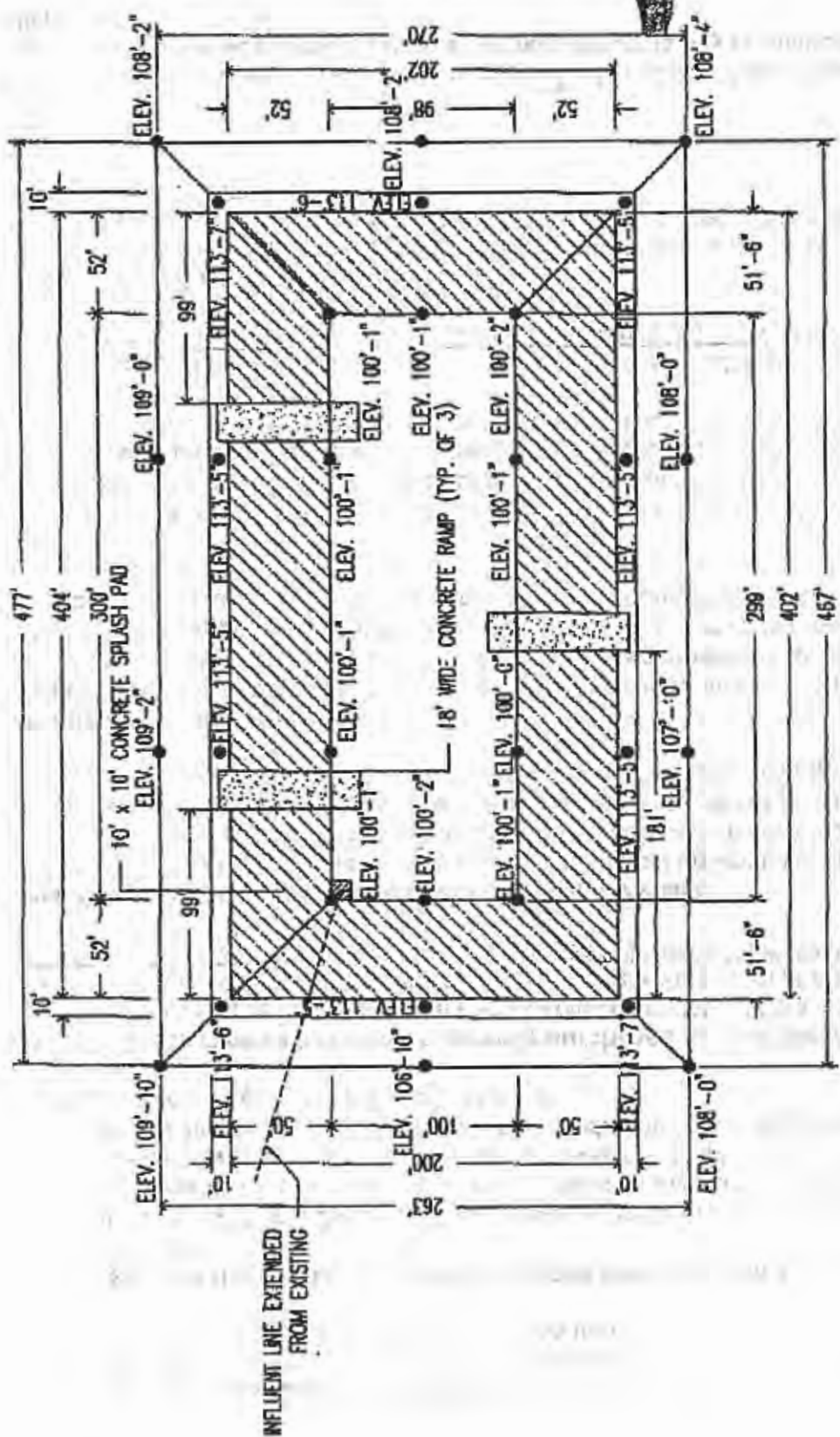


2014 MAR 27

41 4 2 0

0-2





**South-Man Engineering**  
 1400 LAUREL ROAD  
 WINDYBUSH, MANITOBA  
 R2S 0K9

PROJECT NO. RISING HOPE DAIRY INC. NW 30-08-0E	DATE NOVEMBER 2013
DRAWN BY P. FERRER	CHECKED BY N.T.S.
FLOOR PLAN	
THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINDYBUSH, MANITOBA, CANADA.	

NOTE: TOP OF BERM MEASUREMENTS IN TOPSOIL LAYER. LIGHT SETTLEMENT TOP LAYER ANTICIPATED.

**RECORD DRAW.**

DATE MADE  
N.T.S.

DATE MADE  
NOVEMBER 2013

PROJECT NO.  
RISING HOPE DAIRY INC.  
NW 30-08-0E

DRAWN BY  
P. FERRER

CHECKED BY  
N.T.S.

FLOOR PLAN

THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINDYBUSH, MANITOBA, CANADA.

Use the [Manure Application Field Characteristics Table](#) to determine the following:

Total suitable area available for manure application

1548 acres

Manure Application Field Characteristics Table attached

Copies of [soil test reports](#) that are no more than 12 months old must also be included with this submission.

Soil test reports for the required area for manure application attached.

#### Land Required for Manure Application

Long term, land base requirements for manure application are calculated based on estimates of the quantity of nutrients (nitrogen and phosphorus) excreted by livestock and the removal of nutrients by the proposed crops.

#### Phosphorus

The quantity of phosphorus excreted by the livestock depends on the type, number and size of livestock, the quantity and availability of phosphorus fed to the livestock and the amount retained by the livestock.

The removal of phosphorus by crops depends on the crops grown and the historical crop yield averages. (See the [Crop Rotation Table](#)).

The [Livestock Manure and Mortalities Management Regulation](#) requires that "sufficient land is available to the operator to implement an appropriate manure management plan" before Manitoba Conservation and Water Stewardship will issue a permit for a manure storage facility.

"*Certain Areas*" are defined by the [Livestock Manure and Mortalities Management Regulation](#) (M.R. 42/98) as areas where the amount of phosphorus in the manure produced annually by livestock in an area of not less than 93.24 km<sup>2</sup> is greater than two times the annual crop removal rate of P<sub>2</sub>O<sub>5</sub> in that area. Currently the rural municipalities of Hanover and La Broquerie are considered to be "*certain areas*".

A livestock operation is considered to be located within a "*certain area*" if any part of the operation is located within the "*certain area*". This may include, but not limited to, barn(s), confined livestock area(s), field storage location(s), manure storage facility(ies), and/or spread filed(s).

In "*certain areas*" it is Manitoba Conservation and Water Stewardship policy to consider a manure storage facility permit if the operation shows it has access to sufficient suitable land to apply manure at a rate equivalent to one times the crop removal rate of phosphorus.

Is the livestock operation located in "*certain areas*"?

yes  no

In areas which are not considered to be "*certain areas*", Manitoba Conservation and Water Stewardship may issue a manure storage facility permit, if the operation shows it has access to sufficient suitable land to apply manure at a rate equivalent to two times the crop removal rate of phosphorus.

For more information on obtaining a manure storage facility permit, please contact Manitoba Conservation and Water Stewardship, Environmental Approvals branch at (204) 945-5081.

Use the [Land Base Calculator](#) to calculate the minimum area required for manure application.

<b>Total minimum area required for manure application at two times crop removal, for operations outside of Hanover and La Broquerie</b>	<p style="text-align: center;">1206 acres</p>
<b>Total minimum area required for manure application at one times crop removal, for operations within Hanover and La Broquerie AND For the long-term sustainability of operations outside of Hanover and La Broquerie</b>	<p style="text-align: center;">2412 acres</p>

For more information on completing land base calculations, call Manitoba Agriculture, Food and Rural Initiatives (MAFRI) at (204) 945-3869 in Winnipeg.

Land Base Calculator attached

#### Land Base Requirement Summary

By comparing the land **available** for manure application with the land **required** for manure application, state whether sufficient suitable land for manure application:

- has not been identified
- has been identified for two times the crop removal rate of phosphorus (for operations outside of the RMs of Hanover or La Broquerie)
- has been identified for one times the crop removal rate of phosphorus (for operations within the RMs of Hanover and La Broquerie)

MANURE APPLICATION FIELD CHARACTERISTICS TABLE

Field	A	B	C	D	E	F	G	H	I	J	K
	Legal Description	Rural Municipality	O/L/A	Total Acreage	Setbacks, including features	Net Acreage for Manure Application	Agriculture Capability Class and Subclass	Soil Nitrate (lb/acre) 0-24 inches	Soil Phosphorus (ppm Olsen P) 0-6 inches	Development Plan Designation	Zoning
1	NW30-8-6e	St. Anne	O	156	Dwelling, well	114	3w	113	44	Rural Agricultural Area	Agriculture Zone
2	NE30-8-6a (north)	St. Anne	O	81		81	3w	20	5	Rural Agricultural Area	Agriculture Zone
3	SSW31-8-6e	St. Anne	O	80	Dwelling, well	76	3w	36	38	Rural Agricultural Area	Agriculture Zone
4	NNE25-8-5e	Tache	O	78		78	3w	13	23	General Agricultural Area	Agriculture General Zone
5	NW25-8-5e (south)	Tache	O	59		59	3w	51	10	General Agricultural Area	Agriculture General Zone
6	S1/2 6-9-6a	Tache	O	161	Dwelling, well	150	3w	20	3	General Agricultural Area	Agriculture General Zone
7	S35-8-5e	Tache	A	244	Dwelling, well, yard, drain	220	3w	39	6	General Agricultural Area	Agriculture General Zone
8	NW6-9-6a	Tache	A	238	trees	236	3w	47	7	General Agricultural Area	Agriculture General Zone
9	NNW25-8-5e	Tache	A	78		78	3w	30	9	General Agricultural Area	Agriculture General Zone
10	NW29-8-6e	St. Anne	A	241		241	3w	40	15	Rural Agricultural Area	Agriculture Zone
11	NEE36-8-5e	Tache	A	83		83	3w	37	3	General Agricultural Area	Agriculture General Zone
12	EE1-8-5e	Tache	A	130		130	3w	24	3	General Agricultural Area	Agriculture General Zone
13											
14											
15											
16											
17											
18											
19											
20											
<b>Total Net Acreage for Manure Application:</b>						<b>1548</b>					

- A. Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish).
- B. Identify the Rural Municipality in which the parcel is located.
- C. Indicate how the land has been secured for manure application: O - Own / L - Lease / A - Agreement
- D. Enter the total acreage for the parcel.
- E. Enter setbacks from surface water or groundwater features that reduce the land available for manure application, include identification of type of feature (e.g. 5m, Order 3 drain)
- F. Enter the net long-term acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils
- G. Enter the agriculture capability class and subclass ratings for the acreage available for manure application
- H. Provide soil test results for nitrate-N in lb/ac at the 0-24 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing laboratory
- I. Provide soil test results for phosphorus ppm Olsen P at 0-6 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing laboratory
- J. Please indicate the Development Plan and its by-law number in addition to the map designation for each field
- K. Please indicate the Zoning By-law and its by-law number in addition to the zoning for each field

Species	Animal Category/Operation type	N	P2O5
		(lb/year)	(lb/year)
Pigs	Gestating Sow	0	0
	Nursing Sow	0	0
	Gilts	0	0
	Boars	0	0
	Sows, farrow to 5 kg	0	0
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	0	0
	Weanlings	0	0
	Growers/finishers	0	0
Beef	Mature Cows (>2 years old)	0	0
	Bred Heifer (14 mo - 2 years)	0	0
	Replacement Heifers (7 mo-14 mo)	0	0
	Unweaned Calves (0-7 mo)	0	0
	Bulls	0	0
	Mature Cows and Bred Heifers, plus associated livestock	0	0
	Feedlot Cattle - long keep	0	0
	Feedlot Cattle - short keep	0	0
	Backgrounders - pasture	0	0
	Backgrounders - confined	0	0
Dairy	Lactating cow	0	0
	Dry cow	0	0
	Calf, 0-3 months	0	0
	Calf, 4-13 months	0	0
	Replacements, >13 months	0	0
	Mature Cows, plus assoc livestock	156772	86619
Sheep	Ewes	0	0
	Replacement Ewes	0	0
	Rams	0	0
	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
Chickens	Broilers	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
Layers	Layer Pullets	0	0
	Layer Hens	0	0
	Breeder Pullets	0	0
	Breeder Hens	0	0
Turkeys	Broiler Hens (0-9 wks)	0	0
	Hens (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	0	0
	Light Toms (0-12 wks)	0	0
	Toms (0-13 wks)	0	0
	Heavy Toms (0-15 wks)	0	0
	Breeding Hen Growers (0-30 wks)	0	0
	Breeding Hens (30-60 wks)	0	0
	Breeding Tom Grower (0-18 wks)	0	0
	Breeding Tom Grower (0-30 wks)	0	0
	Breeding Tom (30-60 wks)	0	0
<b>Total</b>		<b>156772</b>	<b>86619</b>

**Note:** Be sure all livestock species on your farm are represented in this table. Not just the proposed expansion.

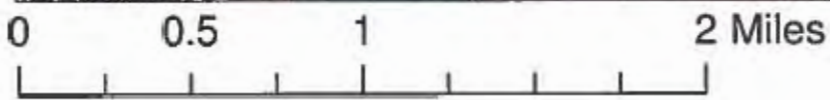
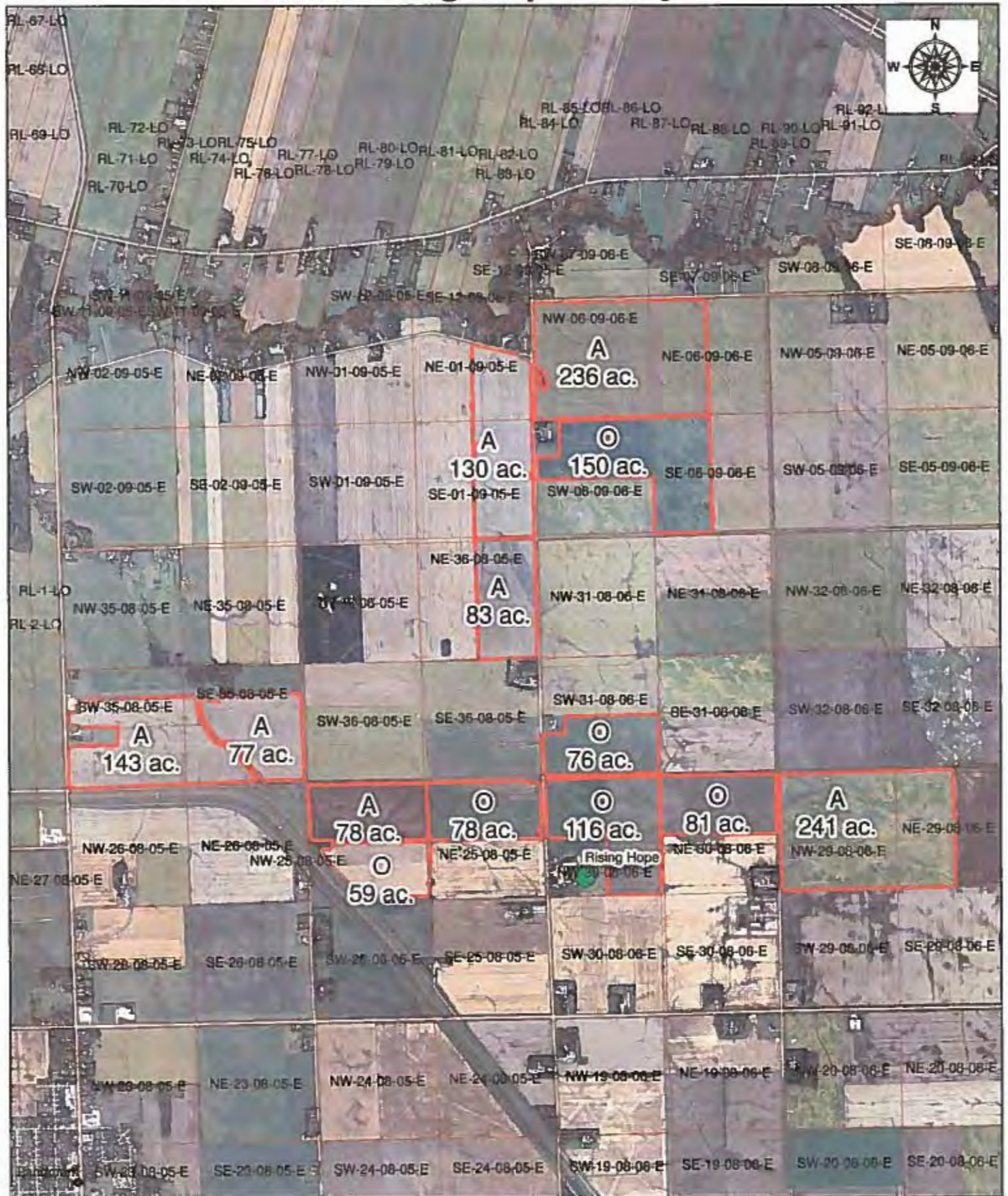
<b>Nutrients Excreted</b>	<b>lbs</b>
Nitrogen	156772
P2O5	86619
<b>Crop Nutrient Use</b>	<b>lb/ac</b>
Nitrogen Uptake	131.3
P2O5 Removal	35.9
<b>Land Base Requirements</b>	<b>acres</b>
Acres Available	1548
Acres for Nitrogen Uptake	1194
Acres for 2 x P2O5 Removal	1206
Acres for 1 x P2O5 Removal	2412

Type	Storage Type	Volatilization	Animal Numbers	Weight In (lb)	Weight Out (lb)	Average Animal Wt (lb)	Days on Feed per Cycle (days)	Number of Cycles per Year	N Excreted Per Head Adjusted for Storage N Loss (lb/yr/head)	P2O5 Excreted per Head Per Year (lb/yr/head)
Lactating Cows	Liquid Uncovered Earthen	30%	0	1400	1440	1420	365	1	0	0
Dry Cows	Liquid Uncovered Earthen	30%	0	1440	1440	1440	365	1	0	0
Calves, 0-3 months	Liquid Uncovered Earthen	30%	0	90	275	183	365	1	0	0
Calves, 4-13 months	Liquid Uncovered Earthen	30%	0	275	910	543	365	1	0	0
Replacements, > 13 months	Liquid Uncovered Earthen	30%	0	810	1250	1030	365	1	0	0
Maternal Cows, plus associated livestock	Liquid Uncovered Earthen	30%	600	n/a	n/a	n/a	n/a	n/a	159772	89919

Last revised August 20, 2014



# Rising Hope Dairy



## CROP ROTATION TABLE

A	B	C	D	E
Expected Crops in the Rotation	Acreage	Historical Yield	Units	Source of Yield Information
Spring Wheat	127	45.2	Bu/ac	Crop Insurance
Canola	153	27.6	Bu/ac	Crop Insurance
Oats	154	86.8	Bu/ac	Crop Insurance
Grain Corn	337	93.2	Bu/ac	Crop Insurance
W/Wheat	185	74.2	Bu/ac	Crop Insurance
Soybeans	158	30.7	Bu/ac	Crop Insurance
Alfalfa	311	3.179	Tons/ac	Crop Insurance
Silage Corn	125	10.576 wet basis	Tons/ac	Crop Insurance

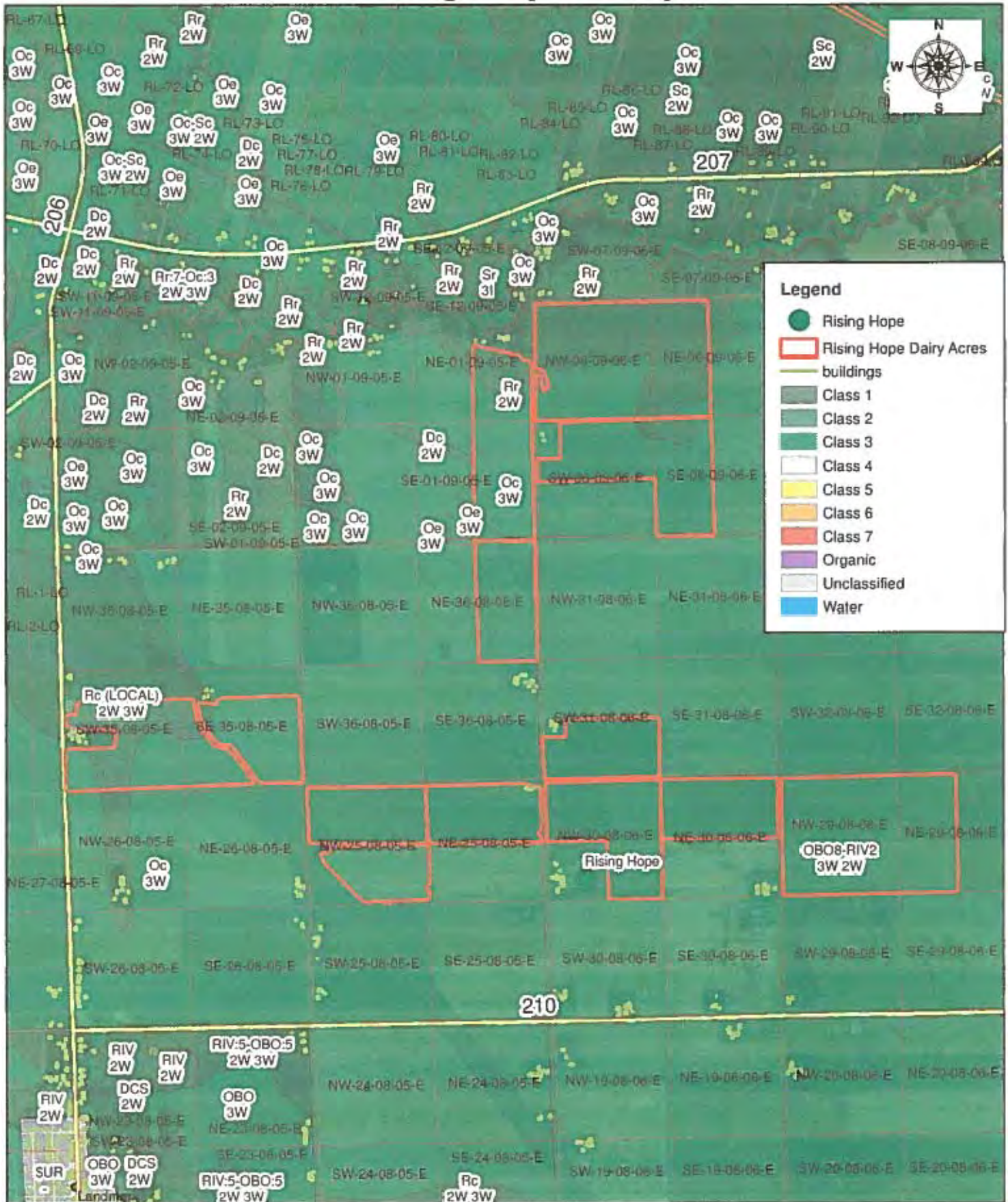
1548 acres

- A. List all of the crop(s) to be grown in the rotation on the acreage that will receive manure.
- B. Indicate the average acreage for each crop over the rotation. For example, if there are 720 suitable acres available for manure and approximately 40 these acres will be used to grow canola, enter 288. The total of column B should add up to Total Net Acreage for Manure Application provided in the Manure Application Field Characteristic Table.
- C. Enter the historical yield average for each crop. Long-term yield averages can be determined using MASC data (<http://www.masc.mb.ca/masc.nsf/index.html?OpenPage>) or on-farm yield records. If on-farm yield records are used, please provide copies.
- D. Enter the units for the yields provided (e.g. bu/acre, tons/acre).
- E. Enter the source of the historical yield average provided.

Crop	Removal		Uptake		Yield	Units	Acreage	Removal		Uptake
	P2O5	N	N	Units				P2O5 (lb)	N (lb)	N (lb)
Alfalfa	13.8	58	58	lb/ton	3.179	ton/ac	311	13644	57849	57343
Barley Grain	0.42	0.97	1.39	lb/bu		bu/ac		-	-	-
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac		-	-	-
Canola	1.04	1.93	3.19	lb/bu	27.6	bu/ac	153	4392	8150	13471
Corn Grain	0.44	0.97	1.53	lb/bu	93.2	bu/ac	337	13820	30466	48055
Corn Silage	12.7	31.2	31.2	lb/ton	3.7016	tons/ac	124	5829	14321	14321
Dry Edible Beans	1.39	4.17		lb/cwt		cwt/ac		-	-	-
Fababeans	1.79	5.02	8.4	lb/cwt		cwt/ac		-	-	-
Flax	0.65	2.13	2.88	lb/bu		bu/ac		-	-	-
Grass Hay	10	34.2	34.2	lb/ton		tons/ac		-	-	-
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac		-	-	-
Oats	0.26	0.62	1.07	lb/bu	86.8	bu/ac	154	3475	8288	14303
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac		-	-	-
Peas	0.69	2.34	3.06	lb/bu		bu/ac		-	-	-
Potatoes	0.09	0.32	0.57	lb/cwt		cwt/ac		-	-	-
Rye	0.45	1.06	1.67	lb/bu		bu/ac		-	-	-
Soybeans	0.84	3.87	5.2	lb/bu	30.7	bu/ac	158	4075	18772	25223
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	45.2	bu/ac	126	3360	8543	12017
Wheat - Winter	0.51	1.04	1.35	lb/bu	74.2	bu/ac	185	7001	14276	18531
<b>Sub Total</b>							<b>1548</b>	<b>55595</b>	<b>160158</b>	<b>203263</b>
<b>Estimated Average Removal/Uptake (lb/ac)</b>								<b>35.9</b>	<b>103.5</b>	<b>131.3</b>
<b>Additional Acres</b>										
<b>Crop Planned on Additional Acres</b>										
<b>Total Suitable Acres Available for Manure</b>							<b>1548</b>			

**Note:** Additional acres include acres that are suitable and available for manure application but are seeded to crops that are not included in the table. Include the crop to be grown in the row below.

# Rising Hope Dairy



**Legend**

- Rising Hope
- Rising Hope Dairy Acres
- buildings
- Class 1
- Class 2
- Class 3
- Class 4
- Class 5
- Class 6
- Class 7
- Organic
- Unclassified
- Water





Benchmarks for Better Farm Management

Web address: [http://www.mmpp.com/mmpp.nsf/mmpp\\_browser\\_fertilizer.html](http://www.mmpp.com/mmpp.nsf/mmpp_browser_fertilizer.html)

**MMPP Fertilizer Data Browser**

[\(Fertilizer Query Help\)](#)

[Save Raw Data](#) | [New Search](#)

**Search Summary**

Your selected search:

**Region(s) Selected:** HANOVER, STE. ANNE, TACHE

**Crop(s) Selected:** ALFALFA

**Soil Zone(s) Selected:** SOIL TYPE E

**Period Selected:** 2005 to 2014

**This search returned 15 records from the MASC database, summarized below:**

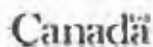
**Total Acres:** 1,857 acres  
**Yield per Acre:** 3.179 Tons / acre (2.885 tonnes / acre)

**Fertilizer Applied per Acre (actual product):**

**Nitrogen:** 17.1 lbs / acre (0.008 tonnes / acre)  
**Phosphorus:** 38.2 lbs / acre (0.017 tonnes / acre)  
**Potassium:** 11.3 lbs / acre (0.005 tonnes / acre)  
**Sulfur:** 0.9 lbs / acre (0.000 tonnes / acre)

[View Raw Data](#)

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Benchmarks for Better Farm Management

Web address: [http://www.mmpp.com/mmpp.nsf/mmpp\\_browser\\_fertilizer.html](http://www.mmpp.com/mmpp.nsf/mmpp_browser_fertilizer.html)

**MMPP Fertilizer Data Browser**

[\(Fertilizer Query Help\)](#)

Save Raw Data

New Search

**Search Summary**

Your selected search:

Region(s) Selected: HANOVER, STE. ANNE, TACHE

Crop(s) Selected: OATS

Soil Zone(s) Selected: SOIL TYPE E

Period Selected: 2005 to 2014

**This search returned 28 records from the MASC database, summarized below:**

Total Acres: 76,037 acres  
 Yield per Acre: 86.8 Bushels / acre (1.338 tonnes / acre)

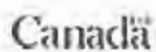
**Fertilizer Applied per Acre (actual product):**

Nitrogen: 74.9 lbs / acre (0.034 tonnes / acre)  
 Phosphorus: 27.9 lbs / acre (0.013 tonnes / acre)  
 Potassium: 2.7 lbs / acre (0.001 tonnes / acre)  
 Sulfur: 2.7 lbs / acre (0.001 tonnes / acre)

[View Raw Data](#)

Save Raw Data

New Search





Benchmarks for Better Farm Management

Web address: [http://www.mmpp.com/mmpp.nsf/mmpp\\_browser\\_fertilizer.html](http://www.mmpp.com/mmpp.nsf/mmpp_browser_fertilizer.html)

### MMPP Fertilizer Data Browser

[\(Fertilizer Query Help\)](#)

[Save Raw Data](#)

[New Search](#)

#### Search Summary

Your selected search:

Region(s) Selected: HANOVER, STE. ANNE, TACHÉ

Crop(s) Selected: GRAIN CORN

Soil Zone(s) Selected: SOIL TYPE E

Period Selected: 2005 to 2014

This search returned 27 records from the MASC database, summarized below:

Total Acres:	21,190 acres
Yield per Acre:	93.2 Bushels / acre (2.367 tonnes / acre)

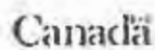
#### Fertilizer Applied per Acre (actual product):

Nitrogen:	117.0 lbs / acre (0.053 tonnes / acre)
Phosphorus:	25.3 lbs / acre (0.011 tonnes / acre)
Potassium:	3.9 lbs / acre (0.002 tonnes / acre)
Sulfur:	1.0 lbs / acre (0.000 tonnes / acre)

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Benchmarks for Better Farm Management

Web address: [http://www.mmpp.com/mmpp.nsf/mmpp\\_browser\\_fertilizer.html](http://www.mmpp.com/mmpp.nsf/mmpp_browser_fertilizer.html)

### MMPP Fertilizer Data Browser

[\(Fertilizer Query Help\)](#)

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#### Search Summary

Your selected search:

Region(s) Selected: HANOVER, STE. ANNE, TACHE

Crop(s) Selected: SILAGE CORN

Soil Zone(s) Selected: SOIL TYPE E

Period Selected: 2005 to 2014

This search returned 17 records from the MASC database, summarized below:

Total Acres: **1,810 acres**  
 Yield per Acre: **10.576 Tons / acre** (9.597 tonnes / acre)

#### Fertilizer Applied per Acre (actual product):

Nitrogen: **92.6 lbs / acre** (0.042 tonnes / acre)  
 Phosphorus: **25.0 lbs / acre** (0.011 tonnes / acre)  
 Potassium: **12.6 lbs / acre** (0.006 tonnes / acre)  
 Sulfur: **0.1 lbs / acre** (0.000 tonnes / acre)

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Benchmarks for Better Farm Management

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## MMPP Fertilizer Data Browser

(Fertilizer Query Help)

[Save Raw Data](#) [New Search](#)

### Search Summary

Your selected search:

Region(s) Selected: HANOVER, STE. ANNE, TACHE

Crop(s) Selected: SOYBEANS

Soil Zone(s) Selected: SOIL TYPE E

Period Selected: 2005 to 2014

**This search returned 27 records from the MASC database, summarized below:**

Total Acres: **30,698 acres**  
 Yield per Acre: **30.7 Bushels / acre** (0.836 tonnes / acre)

#### Fertilizer Applied per Acre (actual product):

Nitrogen: **9.9 lbs / acre** (0.004 tonnes / acre)  
 Phosphorus: **22.8 lbs / acre** (0.010 tonnes / acre)  
 Potassium: **0.8 lbs / acre** (0.000 tonnes / acre)  
 Sulfur: **3.6 lbs / acre** (0.002 tonnes / acre)

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Canada

MASC

Manitoba 



Benchmarks for Better Farm Management

Web address: [http://www.mmpp.com/mmpp.nsf/mmpp\\_browser\\_fertilizer.html](http://www.mmpp.com/mmpp.nsf/mmpp_browser_fertilizer.html)

### MMPP Fertilizer Data Browser

[\(Fertilizer Query Help\)](#)

[Save Raw Data](#)

[New Search](#)

#### Search Summary

Your selected search:

Region(s) Selected: HANOVER, STE. ANNE, TACHÉ

Crop(s) Selected: RED SPRING WHEAT

Soil Zone(s) Selected: SOIL TYPE E

Period Selected: 2005 to 2014

**This search returned 28 records from the MASC database, summarized below:**

Total Acres: 61,614 acres

Yield per Acre: 45.2 Bushels / acre (1.231 tonnes / acre)

#### Fertilizer Applied per Acre (actual product):

Nitrogen: 94.1 lbs / acre (0.043 tonnes / acre)

Phosphorus: 30.5 lbs / acre (0.014 tonnes / acre)

Potassium: 3.4 lbs / acre (0.002 tonnes / acre)

Sulfur: 3.5 lbs / acre (0.002 tonnes / acre)

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[Save Raw Data](#)

[New Search](#)





Benchmarks for Better Farm Management

Web address: [http://www.mmpp.com/mmpp.nsf/mmpp\\_browser\\_fertilizer.html](http://www.mmpp.com/mmpp.nsf/mmpp_browser_fertilizer.html)

## MMPP Fertilizer Data Browser

(Fertilizer Query Help)

[Save Raw Data](#) [New Search](#)

### Search Summary

Your selected search:

Region(s) Selected: HANOVER, STE. ANNE, TACHE

Crop(s) Selected: WINTER WHEAT

Soil Zone(s) Selected: SOIL TYPE E

Period Selected: 2005 to 2014

**This search returned 23 records from the MASC database, summarized below:**

Total Acres: **30,759 acres**  
 Yield per Acre: **74.2 Bushels / acre** (2.019 tonnes / acre)

#### Fertilizer Applied per Acre (actual product):

Nitrogen: **109.7 lbs / acre** (0.050 tonnes / acre)  
 Phosphorus: **22.4 lbs / acre** (0.010 tonnes / acre)  
 Potassium: **1.7 lbs / acre** (0.001 tonnes / acre)  
 Sulfur: **1.4 lbs / acre** (0.001 tonnes / acre)

[View Raw Data](#)
[Save Raw Data](#) [New Search](#)



Benchmarks for Better Farm Management

Web address: [http://www.mmpp.com/mmpp.nsf/mmpp\\_browser\\_fertilizer.html](http://www.mmpp.com/mmpp.nsf/mmpp_browser_fertilizer.html)**MMPP Fertilizer Data Browser**[\(Fertilizer Query Help\)](#)


**Search Summary**

Your selected search:

Region(s) Selected: HANOVER, STE ANNE, TACHÉ

Crop(s) Selected: ARGENTINE CANOLA

Soil Zone(s) Selected: SOIL TYPE E

Period Selected: 2005 to 2014

**This search returned 29 records from the MASC database, summarized below:**

Total Acres:	<b>123,447 acres</b>
Yield per Acre:	<b>27.6 Bushels / acre</b> (0.626 tonnes / acre)

**Fertilizer Applied per Acre (actual product):**

Nitrogen:	<b>107.9 lbs / acre</b> (0.049 tonnes / acre)
Phosphorus:	<b>28.4 lbs / acre</b> (0.013 tonnes / acre)
Potassium:	<b>2.0 lbs / acre</b> (0.001 tonnes / acre)
Sulfur:	<b>11.0 lbs / acre</b> (0.005 tonnes / acre)

[View Raw Data](#)



Canada

Manitoba



Benchmarks for Better Farm Management

Web address: [http://www.mmp.com/mmp.nsf/mmp\\_browser\\_variety.html](http://www.mmp.com/mmp.nsf/mmp_browser_variety.html)

### MMP Variety Yield Data Browser

[Variety Query Help](#)

#### Search Summary

Your selected search:

Region(s) Selected: HANOVER, STE ANNE, TACHE

Crop(s) Selected: ARGENTINE CANOLA

Variety(s) Selected: All

Period Selected: 2004 to 2014

This search returned 533 records from the MASC database, summarized below:

Suit of Farm Varieties	2,328 Farms
Total Acres	396,967 acres
Yield per Acre	29.5 Bushels / acre (0.670 tonnes / acre)

[View Raw Data](#)

Canada





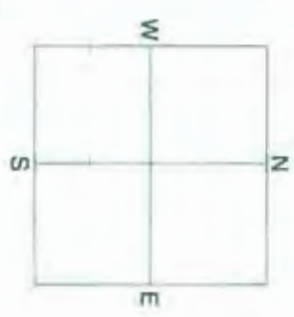
Soil Analysis by AGVISE Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 567-6010  
 Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID: 7926  
 SAMPLE ID:  
 FIELD NAME: Aletta  
 COUNTY:  
 TWP: NE25-9-5e RANGE (N)  
 SECTION: QTR ACRES 78

SUBMITTED FOR:  
 Rising Hope Dairy

SUBMITTED BY: EL1911  
 AGRI-GOLD CONSULTING LTD  
 CLIFF LOEWEN  
 BOX 156  
 BLUMENORT, MB R0A 0C0



REF # 1168870 BOX # 0  
 LAB # NW17990

Date Sampled 04/08/2015

Date Received 04/10/2015

Date Reported 4/13/2015

Nutrient in the Soil	Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		Grass/Alfalfa	YIELD GOAL	YIELD GOAL	YIELD GOAL	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES
0-8" 6-24" 10 lb/ac 3 lb/ac	***	4 Tons	0	0			
0-24" 13 lb/ac							
Phosphorus 23 ppm							
Potassium 500 ppm							
Calcium 120 lb/ac 60 lb/ac							
Sulfur 50 lb/ac							
Boron							
Zinc							
Iron							
Manganese							
Copper							
Magnesium							
Calcium							
Selenium							
Org Phos							
Cation Exchange Capacity							
0-8" 6-24" 1.28 meq/cm 0.83 meq/cm							
Soil pH	7.9	Soil pH	7.9	Cation Exchange Capacity			
1-24" 8.3							

CRP 31: \* Cationic Seed Placed Fertilizer: Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 40  
 CRP 31: \* Anionic Seed Placed Fertilizer: Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 40



Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
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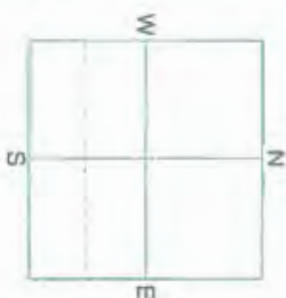
**SOIL TEST REPORT**

FIELD ID: 7928  
 SAMPLE ID:  
 FIELD NAME: Aletta  
 COUNTY:  
 TYPE: NW30-9-6e RANGE  
 SECTION: QTR ACRES: 116  
 PREV. CROP: Corn-Grain

SUBMITTED FOR:  
 Rising Hope Dairy

SUBMITTED BY: EL1911  
 AGRA-GOLD CONSULTING LTD  
 CLIFF LOEWEN  
 BOX 156  
 BLUMHORT, MN ROA 000

REF # 1168867 BOX # 0  
 LAB # NW17992



Date Sampled: 04/08/2015

Date Received: 04/10/2015

Date Reported: 4/13/2015

Nutrient in The Soil	Interpretation	1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		YIELD GOAL	SUGGESTED GUIDELINES	LB/ACRE APPLICATION	YIELD GOAL	SUGGESTED GUIDELINES	LB/ACRE APPLICATION	YIELD GOAL	SUGGESTED GUIDELINES	LB/ACRE APPLICATION
Phosphorus	44 ppm	30 Bu/ac	10 (barrier)*	N	30 Bu/ac	N	30 Bu/ac	N	30 Bu/ac	
Potassium	518 ppm	55 Bu		P-0s	0	P-0s	0	P-0s	0	
Chloride	30 lb/ac			K-0		K-0		K-0		
Sulphur	54 lb/ac			Cl		Cl		Cl		
Boron				S		S		S		
Zinc	3.68 ppm			B		B		B		
Iron				Zn		Zn		Zn		
Manganese				Fe		Fe		Fe		
Copper				Mn		Mn		Mn		
Magnesium	1330 ppm			Cu		Cu		Cu		
Calcium	7332 ppm			Mg		Mg		Mg		
Barium	85 ppm			Li		Li		Li		
Organic	8.1 %									
Cation(Cc)	1.16 mmho/cm			Soil pH	7.0	Buffer pH	7.3	Cation Exchange Capacity	46.8 meq	
EC	0.87 mmho/cm				8.2-8.3			% Ca	73.9	
								% Mg	22.6	
								% K	3.7	
								% N	0.8	
								% P	0.8	

General Comments: Texture is not estimated on high pH soils.  
 Crop 1: Corn - Caution: Feed Placed Fertilizer Can Cause Injury - Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 80  
 K2O = 29 ASVISE Band guidelines would be P & K test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
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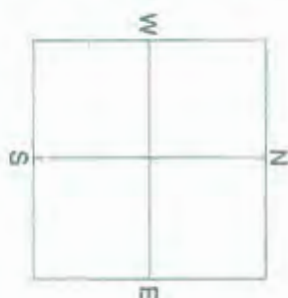
**SOIL TEST REPORT**

FIELD ID: **7921 + 7912**  
 SAMPLE ID:  
 FIELD NAME: **Albata**  
 COUNTY:  
 TWP: **SW35-6-5a RANGE**  
 SECTION: QTR ACRES: **220**  
 PREV. CROP: **Soybeans**

SUBMITTED BY: **EL1811**

AGRA-GOLD CONSULTING LTD  
 CLIFF LOEWEN  
 BOX 156  
 BLUMENORT, ND ROA 000

REF # **1168864** BOX # **0**  
 LAB # **NW17994**



SUBMITTED FOR:  
**Riding Hope Dairy**

Date Sampled **04/08/2015**

Date Received **04/10/2015**

Date Reported **4/13/2015**

Nutrient in The Soil	Interpretation	1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		YIELD GOAL	SUGGESTED GUIDELINES	Band	YIELD GOAL	SUGGESTED GUIDELINES	Band	YIELD GOAL	SUGGESTED GUIDELINES	Band
Phosphorus	6 ppm	55 BU	0	0	0	0	0	0	0	
Potassium	371 ppm	55 BU	0	0	0	0	0	0	0	
Calcium	14 lb/ac	55 BU	0	0	0	0	0	0	0	
Magnesium	36 lb/ac	55 BU	0	0	0	0	0	0	0	
Sulfur	0.85 ppm	55 BU	0	0	0	0	0	0	0	
Boron		55 BU	0	0	0	0	0	0	0	
Zinc		55 BU	0	0	0	0	0	0	0	
Iron		55 BU	0	0	0	0	0	0	0	
Manganese		55 BU	0	0	0	0	0	0	0	
Copper		55 BU	0	0	0	0	0	0	0	
Molybdenum		55 BU	0	0	0	0	0	0	0	
Chlorine		55 BU	0	0	0	0	0	0	0	
Sodium		55 BU	0	0	0	0	0	0	0	
Organic		55 BU	0	0	0	0	0	0	0	
Cation Exchange Capacity		55 BU	0	0	0	0	0	0	0	
Soil pH		55 BU	0	0	0	0	0	0	0	
Buffer pH		55 BU	0	0	0	0	0	0	0	
Cation Exchange Capacity		55 BU	0	0	0	0	0	0	0	
% Ca		55 BU	0	0	0	0	0	0	0	
% Mg		55 BU	0	0	0	0	0	0	0	
% K		55 BU	0	0	0	0	0	0	0	
% Na		55 BU	0	0	0	0	0	0	0	
% H		55 BU	0	0	0	0	0	0	0	

General Comments: Texture is not estimated on high pH soils.  
 Crop 1: \* Caution: Seed Placed & Fertilizer Can Cause Injury \* Nitrogen is credited 18 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high and level. Crop Removal: P 205 = 50 K2O = 25 AGVISE Band guidelines will build P & K test levels to the medium range over many years.





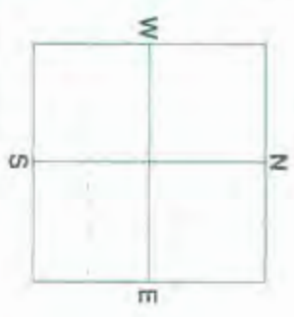
Soil Analyst by Agrise Laboratories  
 (http://www.agrise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID: 7923  
 SAMPLE ID: AGRIS-8-5a  
 FIELD NAME: Aletta  
 COUNTY: NW25-8-5a RANGE  
 TWP: (N)  
 SECTION: QTR ACRES: 78  
 PREV. CROP: soybeans

SUBMITTED BY: EL1911  
 AGRIS-GOLD CONSULTING LTD  
 CLIFF LOEWEN  
 BOX 156  
 BLUMENORT, MN ROA 0C0

DATE SAMPLED: 04/08/2015  
 DATE RECEIVED: 04/10/2015  
 DATE REPORTED: 4/13/2015



REF # 1168865 BOX # 0  
 LAB # NW17995

Nutrient In The Soil	Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES
Phosphorus	0-6" 18 lb/ac 6-24" 12 lb/ac	148	44 Band *	N	P2O5	N	P2O5
Potassium	0-6" 8 lb/ac 6-24" 48 lb/ac	0	0	N	K2O	N	K2O
Chloride	0-6" 0.48 ppm	3	Band (Trials)	N	Cl	N	Cl
Boron	0-6" 0.48 ppm	5	Band	N	B	N	B
Zinc	0-6" 0.48 ppm	5	Band	N	Zn	N	Zn
Iron	0-6" 0.48 ppm	5	Band	N	Fe	N	Fe
Manganese	0-6" 0.48 ppm	5	Band	N	Mn	N	Mn
Copper	0-6" 0.48 ppm	5	Band	N	Cu	N	Cu
Magnesium	0-6" 0.48 ppm	5	Band	N	Mg	N	Mg
Calcium	0-6" 0.48 ppm	5	Band	N	Ca	N	Ca
Sodium	0-6" 0.48 ppm	5	Band	N	Na	N	Na
Organic Matter	0-6" 5.3 %	5	Band	N	OM	N	OM
Cation Exchange Capacity	0-6" 0.86 mmho/cm 6-24" 0.76 mmho/cm	52.1 meq	74.4	52.1 meq	74.4	52.1 meq	74.4
Soil pH	6.2-7.8	7.8	7.8	7.8	7.8	7.8	7.8
Buffer pH	6.2-7.8	7.8	7.8	7.8	7.8	7.8	7.8
% Base Saturation (Typical Ranges)							
		74.4	23.4	1.8	0.4	0.4	0.4

General Comment: Texture is not determined on high pH soils.  
 Crop 3: \* Caution! Seed Placed Farther Can Cause Injury \* Nitrogen is credited to last for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 30 K2O = 25 AGRIWISE Band guidelines will build P & K test levels to the medium range over many years.



Soil Analyst by Agrivise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
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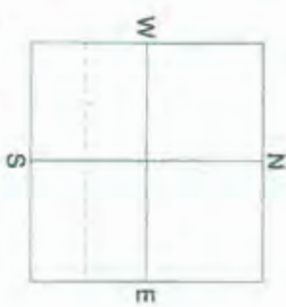
**SOIL TEST REPORT**

FIELD ID: 7924  
 SAMPLE ID:  
 FIELD NAME/ACRES:  
 COUNTY:  
 TWP: NW25-B-5e RANGE (S)  
 SECTION: QTR ACRES 59  
 PREVIOUS CROPS: Soybeans

SUBMITTED FOR:  
 Ruling Hope Dairy

SUBMITTED BY: EL1911  
 AGRA-GOLD CONSULTING LTD  
 CLEFF LOEWEN  
 BOX 156  
 BLUMENORT, MB R0A 0C0

REF # 1168866 BOX # 0  
 LAB # NW17998



Date Sampled 04/08/2015

Date Received 04/10/2015

Date Reported 4/13/2015

Nutrient In The Soil	Interpretation
D-8* B-24* 27 lb/acre 24 lb/acre	
D-24** 51 lb/acre	
Phosphorus Olsen 10 ppm	
Potassium 339 ppm	
Chloride O-8* B-24* 24 lb/acre 26 lb/acre	
Boron 0.64 ppm	
Zinc 0.64 ppm	
Iron 1276 ppm	
Manganese 7498 ppm	
Cadmium 38 ppm	
ORGANIC 5.7 %	
Cation Exchange Capacity (CEC) O-8* B-24* 1.04 mmb/c 0.88 mmb/cm	
Soil Salinity	

1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES
27 BU	55 BU	0	0	0	0
LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
N 127	P-01 Band *	N	P-01	N	P-01
K2O 0		K2O		K2O	
Cl 15	Band	Cl		Cl	
S 15	Band	S		S	
B		B		B	
Zn 3	Band (Trials)	Zn		Zn	
Fe		Fe		Fe	
Mn		Mn		Mn	
Cu		Cu		Cu	
Mg		Mg		Mg	
Lime		Lime		Lime	
Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)	
6.1-6.0	48.2 meq	% Ca	% Mg	% K	% Na
6.2-6.3	78.3	(13-18)	(13-20)	(1-7)	(0-5)
		21.8	1.8	0.3	(0-1)

General Comment: Texture is not estimated on this pH and...  
 Crop N: \* Caution: Based on the 7 and 8000 Can Count Index, a nitrogen is credited 15 lb/acre for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Heavy crops may require a similar application of P & K even on high soil tests. Crop Removal: 200 = 50 kgO = 28 lb/acre. Same guidelines will hold for K.

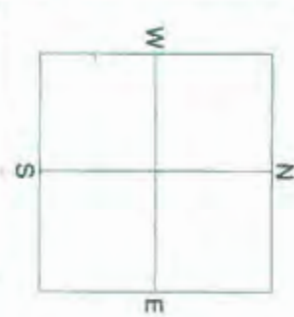


Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID: 7927  
 SAMPLE ID:  
 FIELD NAME: Aletta  
 COUNTY: SWA1-B-6e RANGE  
 TWP: (S)  
 SECTION: QTR ACRES: 76  
 PREV. CROP: Grass/Alfalfa

SUBMITTED BY: EL1911  
 AGR-GOLD CONSULTING LTD  
 CLIFF LOEWEN  
 BOX 156  
 BLUMENORT, MB R0A 0C0



REF # 1168871 BOX # 0  
 LAB # NW17998

SUBMITTED FOR:  
 Rising Hope Dairy

Date Sampled 04/08/2015

Date Received 04/10/2015

Date Reported 4/13/2015

Nutrient in The Soil	Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES
Phosphorus	38 ppm	Grass/Alfalfa					
0-8" 18 lb/ac							
8-24" 18 lb/ac		4 Tons		9		0	
0-24" 38 lb/ac							
Chloride	434 ppm						
0-8" 18 lb/ac							
8-24" 60 lb/ac							
Barren							
Zinc							
Iron							
Manganese							
Copper							
Niobium							
Calcium							
Sulfur							
Organic Matter							
Carbon (CCE)							
0-8" 1.01 mmbh/cm							
8-24" 0.88 mmbh/cm							
SAL 3.5%							

Soil pH	Buffer pH	Carbon Exchange Capacity	% Base Saturation (Typical Range)				
0-1 8.0	1-24 8.2		% Ca	% Mg	% K	% Na	% H

Caution: Seed placed fertilizer can cause injury. Major crops may respond to a starter application of P & K even on high soil test. Crop Removal: P-205 = 40 K-20 = 187 A-D-T-E-Sand guidelines will hold P & K test results to the medium range over many years.



Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 567-6010  
 Benson: (320) 843-4109

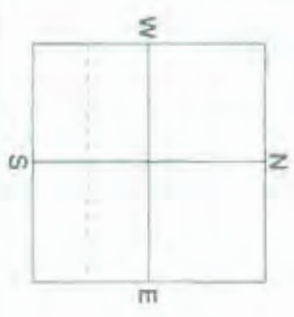
**SOIL TEST REPORT**

FIELD ID: 7917  
 SAMPLE ID:  
 FIELD NAME: Aletta  
 COUNTY: NWE-S-66 RANGE  
 TWP: QTR ACRES: 236  
 SECTION: PREV. CROP: Soybeans

**SUBMITTED FOR:**  
 Ralene Hope Dalry

**SUBMITTED BY:** EL1911  
 AGRI-GOLD CONSULTING LTD  
 CLIFF LOEWEN  
 BOX 156  
 BLUMENORT, MB R0A 0C8

REF # 1168863 BOX # 0  
 LAB # NW18002



Date Sampled 04/08/2015

Date Received 04/10/2015

Date Reported 4/13/2015

Nutrient In The Soil	Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES
0-8" 28 lb/ac 6-24" 18 lb/ac		Crabapple					
0-24" 47 lb/ac		53 BU	0	0			
7 ppm		N 131	N	N	N		
407 ppm		P2O5 30 Band +	P2O5	P2O5	P2O5		
14 lb/ac 48 lb/ac		K2O 0	K2O	K2O	K2O		
1.84 ppm		Cl 17 Band	Cl	Cl	Cl		
		B 8	B	B	B		
		Zn 0	Zn	Zn	Zn		
		Fa 0	Fa	Fa	Fa		
		Mn	Mn	Mn	Mn		
		Cu	Cu	Cu	Cu		
		Mg 0	Mg	Mg	Mg		
6.3 %		Lime	Lime	Lime	Lime		
0.91 mbho/cm 0.88 mbho/cm		Soil pH 7.8	Soil pH 7.8	Soil pH 7.8	Soil pH 7.8		
		1-2" 8.0	1-2" 8.0	1-2" 8.0	1-2" 8.0		
		33.8 meq	33.8 meq	33.8 meq	33.8 meq		
		% Ca 68.8	% Ca 68.8	% Ca 68.8	% Ca 68.8		
		% Mg 27.7	% Mg 27.7	% Mg 27.7	% Mg 27.7		
		% K 2.0	% K 2.0	% K 2.0	% K 2.0		
		% Na 0.4	% Na 0.4	% Na 0.4	% Na 0.4		
		% N 10.4	% N 10.4	% N 10.4	% N 10.4		

General Comments: Clay/Clay Loam (C&C range 0.20-0.70%)  
 Comp. 1: Calcium Sulfate Placed/Fertilizer/Can Cause Injury - Nitrogen to be credited 15 lb/ac for the previous crop. Nitrogen credit may need to be adjusted based on soil test levels in the medium range over many years.  
 Comp. 2: Calcium Sulfate Placed/Fertilizer/Can Cause Injury - Nitrogen to be credited 15 lb/ac for the previous crop. Nitrogen credit may need to be adjusted based on soil test levels in the medium range over many years.  
 Comp. 3: Calcium Sulfate Placed/Fertilizer/Can Cause Injury - Nitrogen to be credited 15 lb/ac for the previous crop. Nitrogen credit may need to be adjusted based on soil test levels in the medium range over many years.



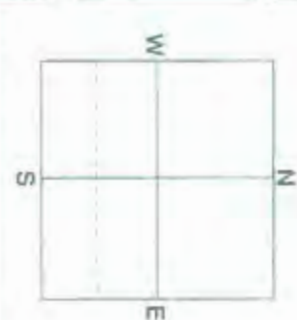
Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID 7929  
 SAMPLE ID  
 FIELD NAME Metta  
 COUNTY  
 TWP NW29-9-66 RANGE  
 SECTION QTR ACRES 241  
 PREV. CROP Wheat-Spring

SUBMITTED BY: EL1911  
 AGRA-GOLD CONSULTING LTD  
 CLIFF LOEWEN  
 BOX 156  
 BLUMENONT, NB RGA BCU

SUBMITTED FOR:  
 Rising Hope Dairy



REP # 1168868 BOX # 0  
 LAB # NW17986

Date Sampled 04/08/2015

Date Received 04/10/2015

Date Reported 4/13/2015

Nutrient In The Soil	Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES
<b>D-8"</b> 25 lb/ac		Canada-bu					
<b>6-24"</b> 15 lb/ac		55 BU	0	0	0	0	
<b>0-24"</b> 40 lb/ac							
<b>Nitrate</b>							
<b>Phosphorus</b>	15 ppm	N 153	N	N	N		
<b>Potassium</b>	375 ppm	P-01 28 Band =	P-01	P-01	P-01		
<b>Chloride</b>		K2O 0	K2O	K2O	K2O		
<b>Sulfur</b>	20 lb/ac	Cl 15 Band	Cl	Cl	Cl		
<b>6-24"</b>	102 lb/ac	S 15	S	S	S		
<b>Boron</b>		B	B	B	B		
<b>Zinc</b>	1.04 ppm	Zn 0	Zn	Zn	Zn		
<b>Iron</b>		Fe	Fe	Fe	Fe		
<b>Manganese</b>		Mn	Mn	Mn	Mn		
<b>Copper</b>		Cu	Cu	Cu	Cu		
<b>Magnesium</b>	1221 ppm	Mg 0	Mg	Mg	Mg		
<b>Calcium</b>	8251 ppm	Lime	Lime	Lime	Lime		
<b>Sodium</b>	35 ppm						
<b>Organic Matter</b>	7.4 %						
<b>Cation Exchange Capacity</b>							
<b>0-8"</b>	0.72 meq/cm	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)		
<b>6-24"</b>	0.0 meq/cm	0.8 - 8.0		52.5 meq	% Ca (65-75)	% Mg (13-20)	% K (0-3)
		0.1 - 8.2		78.5	18.4	1.8	0.3
							(p-1)

General Comments: Textural is not estimated on high pH soils.  
 Crop 1 - Cation Band placed according to Can Crops Index 2 - Many crops may respond to a starter application of P & K even on high soil levels. Crop Recommendation: P205 = 80  
 K2O = 25 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Soil Analysis by Agrivis Laboratories  
 (http://www.agvlab.com)  
 Northwood: (701) 587-6010  
 Bismarck: (320) 843-4108

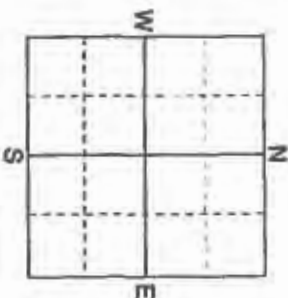
**SOIL TEST REPORT**

FIELD ID: Jorann 06  
 SAMPLE ID:  
 FIELD NAME:  
 COUNTY: 6  
 TWP: 9  
 SECTION: 6  
 RANGE: QTR NW  
 ACRES: 160  
 PREV. CROP: Alfalfa

SUBMITTED BY: TE2728

RICHARDSON PIONEER-LANDMA  
 231 MAIN STREET  
 BOX 79  
 LANDMARK, NB  
 RDA 0X0

REF # 021259 BOX # 0  
 LAB # NW28981



SUBMITTED FOR:  
 Alfalfa Crops

Date Sampled

Date Received 08/23/2014

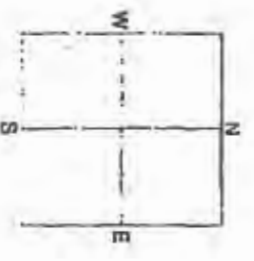
Date Reported 11/5/2014

Nutrient In the Soil	Interpretation	1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
21 lb./ac 4 lb./ac		0	58	Band *	0	10	0	0	0	0
20 lb./ac		10	18	Band (Barber) *	0	0	0	0	0	0
3 ppm		1	1	Band (Tisdal)	0	0	0	0	0	0
208 ppm		2	2	Band (Tisdal)	0	0	0	0	0	0
0.75 ppm		0	0		0	0	0	0	0	0
13 lb./ac 20 lb./ac		0	0		0	0	0	0	0	0
1184 ppm		0	0		0	0	0	0	0	0
7343 ppm		0	0		0	0	0	0	0	0
47 ppm		0	0		0	0	0	0	0	0
8.1 %		0	0		0	0	0	0	0	0
0.88 meq/cm 0.88 meq/cm		0	0		0	0	0	0	0	0

General Comments: Textures is not indicated on high pH soils.  
 Crop 11 - Caution! Band Placed Fertilizer Can Cause Drift - Nitrogen is credited 23 lbs for this previous crop. Nitrogen credits may need to be adjusted based on local conditions. Heavy crops may require for a shorter application of P & K even on high soil levels. Crop Removal: P205 = 48 K2O = 200 AGRISOL Band/Phosphorus protection will hold P & K levels to the maximum range over many years and from harvest time.

**ADVISE LABORATORIES**  
 Soil Analysis by Agviva Laboratories  
 (http://www.agviva.com)  
 Hardwood: (701) 587-6010  
 Benzon: (214) 943-4109

**SOIL TEST REPORT**  
 FIELD ID: Zone 02  
 SAMPLE ID: [Blank]  
 FIELD NAME: [Blank]  
 COUNTY: DE  
 TWP: B RANGE: [Blank]  
 SECTION: 20 QTR. NR.: ACRES 90  
 PREV. CROP: Alfalfa



SUBMITTED FOR: **Aviva Crepe**  
 SUBMITTED BY: **TETZAR**  
 EXCHANGE# **PROBBER-LANOMA**  
 231 MAIN STREET  
 BOX 70  
 LANOKING, MS  
 MOA 0300

REP # **846644** BOX # **0**  
 LAB # **HW25558**

Date Sampled:

Date Received 08/13/2014

Date Reported 8/13/2014

Nutrient from this Soil		Tissue Concentration		1:1 Extractable Phosphorus			20:1 Extractable Phosphorus			Soil Corg. Phos		
Sample	Unit	Sample	Unit	Field Goal	Application	Field Goal	Application	Field Goal	Application	Field Goal	Application	
0-3"	11 lb/acre	12.5	mg/kg	0		0		0				
6-24"	8 lb/acre	11.5	mg/kg	0		0		0				
6-24"	20 lb/acre	11.5	mg/kg	0		0		0				
0-3"	3 ppm	3.5	mg/kg									
6-24"	2.85 ppm	3.5	mg/kg									
0-3"	1.0 lb/acre	1.0	mg/kg									
6-24"	0.8 lb/acre	1.0	mg/kg									
0-3"	1.12 ppm	1.12	mg/kg									
6-24"	1.12 ppm	1.12	mg/kg									
0-3"	1.12 ppm	1.12	mg/kg									
6-24"	1.12 ppm	1.12	mg/kg									
0-3"	1.12 ppm	1.12	mg/kg									
6-24"	1.12 ppm	1.12	mg/kg									
0-3"	1.12 ppm	1.12	mg/kg									
6-24"	1.12 ppm	1.12	mg/kg									
0-3"	1.12 ppm	1.12	mg/kg									
6-24"	1.12 ppm	1.12	mg/kg									
0-3"	1.12 ppm	1.12	mg/kg									
6-24"	1.12 ppm	1.12	mg/kg									
0-3"	1.12 ppm	1.12	mg/kg									
6-24"	1.12 ppm	1.12	mg/kg									

Standard Concentration Tables to not substitute for field soil tests.



Soil Analysis by Agriwise Laboratories  
 (http://www.agriwise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID Jim North  
 SAMPLE ID  
 FIELD NAME Jim North  
 COUNTY  
 TWP 9 RANGE SE  
 SECTION 1 QTR NE/SF ACRES 130  
 PREV. CROP Wheat-Winter

SUBMITTED FOR:  
 Jason Goosen

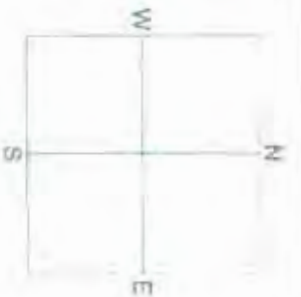
Date Sampled

SUBMITTED BY: TEZ728  
 RICHARDSON PIONEER-LANDMA  
 231 MAIN STREET  
 BOX 70  
 LANDMARK, MB  
 ROA OXO

Date Received 10/10/2014

Date Reported 10/14/2014

REF # 979434 BOX # 0  
 LAB # NW98836



Nutrient In-Tile Soil	Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		FIELD GOAL	SUGGESTED RANGES	FIELD GOAL	SUGGESTED RANGES	FIELD GOAL	SUGGESTED RANGES
0-8" 9 lb/ac 8-24" 28 lb/ac		6	6	6	6	6	6
0-24" 24 lb/ac							
Phosphorus	3 ppm	P	P	P	P	P	P
Potassium	228 ppm	K	K	K	K	K	K
Calcium	68 lb/ac	Ca	Ca	Ca	Ca	Ca	Ca
Magnesium	113 lb/ac	Mg	Mg	Mg	Mg	Mg	Mg
0-8" 60 lb/ac 8-24" 80 lb/ac		0	0	0	0	0	0
Iron	1.7 ppm	Fe	Fe	Fe	Fe	Fe	Fe
Zinc	0.84 ppm	Zn	Zn	Zn	Zn	Zn	Zn
Copper	28.7 ppm	Cu	Cu	Cu	Cu	Cu	Cu
Manganese	1.4 ppm	Mn	Mn	Mn	Mn	Mn	Mn
0-8" 1381 ppm 8-24" 7889 ppm		0	0	0	0	0	0
0-8" 7.8 % 8-24" 0.87 mmol/cm		0	0	0	0	0	0
0-8" 1.8 mmol/cm 8-24" 0.87 mmol/cm		1.8	1.8	1.8	1.8	1.8	1.8
0-8" 1.8 mmol/cm 8-24" 0.87 mmol/cm		1.8	1.8	1.8	1.8	1.8	1.8

General Comments: Texture is not estimated on high pH soils.

**E-MAILED  
 E-DELIVERED**





Soil Analysis by AgriStar Laboratories  
 (http://www.agvlab.com)  
 Northwood, (701) 587-6010  
 Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID: Slivicki South  
 SAMPLE ID: FIELD NAME Slivicki South  
 COUNTY: RANGSE  
 TWP: 8 QTR NE ACRES 90  
 SECTION 36 PREV. CROP: Wheat-Winter

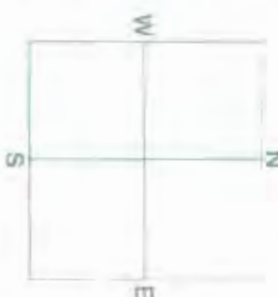
SUBMITTED FOR:  
 Jason Gooson

SUBMITTED BY: TE2728  
 RICHARDSON PIONEER-LANDMA  
 231 MAIN STREET  
 BOX 70  
 LANDMARK, MB

Date Sampled

Date Received 10/10/2014

Date Reported 10/31/2014



REF # 979436 BOX # 0  
 LAB # NW98602

Nutrient in The Soil	Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		YIELD (GAL)	YIELD (GAL)	YIELD (GAL)	YIELD (GAL)		
0-9" 6-24" 38 lb/ac 18 lb/ac		0	0		0		
0-24" 37 lb/ac							
0-9" 6-24" 32 lb/ac							
0-9" 6-24" 26 lb/ac 96 lb/ac							
0-9" 6-24" 2.3 ppm							
0-9" 6-24" 0.88 ppm							
0-9" 6-24" 27.2 ppm							
0-9" 6-24" 1.8 ppm							
0-9" 6-24" 1.88 ppm							
0-9" 6-24" 7688 ppm							
0-9" 6-24" 48 ppm							
0-9" 6-24" 4.7 %							
0-9" 6-24" 10.6 %							
0-9" 6-24" 0.88 meq/cm 0.8 meq/cm							
0-9" 6-24" 5.24							

1st Crop Choice	2nd Crop Choice	3rd Crop Choice
YIELD (GAL)	YIELD (GAL)	YIELD (GAL)
0	0	0
ANALYZED ELEMENTS	ANALYZED ELEMENTS	ANALYZED ELEMENTS
LIQ/CRP	LIQ/CRP	LIQ/CRP
APPLICATION	APPLICATION	APPLICATION
N	N	N
P O	P O	P O
K O	K O	K O
S	S	S
B	B	B
Zn	Zn	Zn
Fe	Fe	Fe
Mn	Mn	Mn
Cu	Cu	Cu
Mg	Mg	Mg
Line	Line	Line

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)			
5.24	5.24	52.7 meq	% Ca (65-75)	% Mg (15-20)	% K (1-7)	% Na (0-5)
5.24	5.24	52.7 meq	74.7	23.8	4.8	0.8

General Comments: Texture is not analyzed on high pH soils.

### Long-Term Environmental Sustainability

The Government of Manitoba has included phosphorus as a nutrient by which applications of manure, synthetic fertilizer and municipal waste sludge to agricultural lands may be limited.

Over the short-term for fields with low phosphorus, regulations allow manure to be applied to meet the nitrogen requirements of the crop. This often results in over-application of phosphorus and a build-up of phosphorus in soils. When soil test phosphorus levels reach 60 ppm Olsen P, manure application rates must consider how much phosphorus will be removed in the harvested portion of the crop. At 60 to 119 ppm Olsen P, the amount of phosphorus that can be applied cannot exceed twice (two times) what the crop can remove in order to slow the build-up of soil phosphorus. Once soil test phosphorus levels reach 120 ppm Olsen P, applications of phosphorus are restricted to no more than what the crop can remove (one times) in order to stop further soil test phosphorus build-up. At 180 ppm Olsen P, no additional phosphorus may be applied.

It should be noted that soil-test phosphorus levels of 60 ppm Olsen P or greater are agronomically very high and at these levels most crops will not benefit from additional phosphorus beyond starter phosphorus. As phosphorus levels build up in soils, the concentration of phosphorus in runoff increases.

Therefore, to remain environmentally sustainable over a long-term planning horizon of 25 years or more, phosphorus applications from applied manure and other nutrient sources such as commercial fertilizers must be balanced with crop removal to avoid further build-up in soils. Consequently, sufficient land must be available in relatively close proximity to the operation to balance phosphorus applications with crop phosphorus removals (one times) so that manure treatment and export of phosphorus from the region is not required.

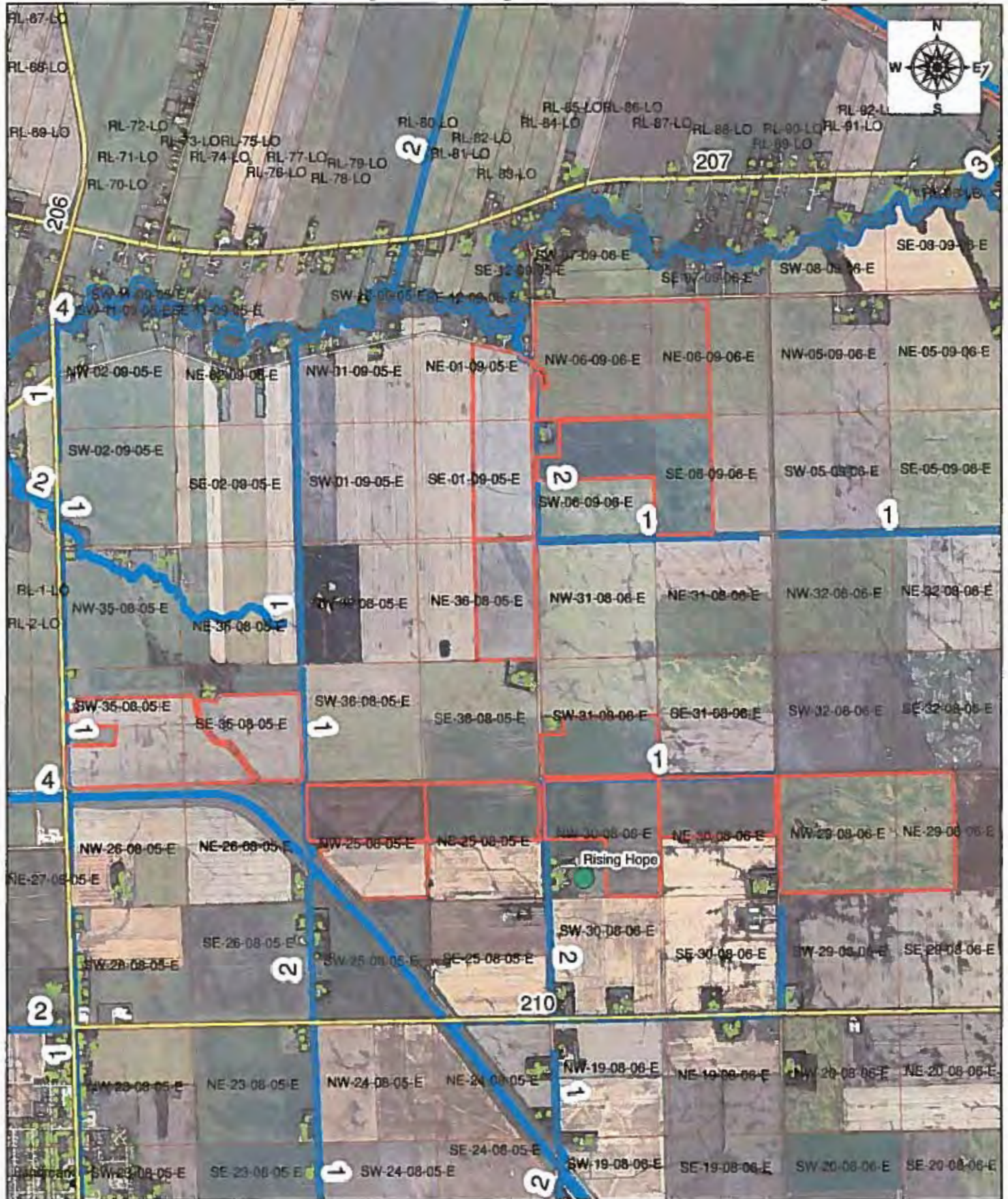
I acknowledge that up to 2412 acres acres/hectares (one times crop removal from table above) may be required for the long term environmental sustainability of the operation.

# Surface Water Map



0 0.175 0.35 0.7 Miles

# Rising Hope Dairy Drain Order Map



0 0.5 1 2 Miles

### 10.0 Mortalities (Dead Animal) Disposal

The [Livestock Manure and Mortalities Management Regulation](#) sets requirements for the use, management and storage of livestock mortalities in agricultural operations. It helps ensure livestock mortalities are handled in an environmentally sound manner. Winter application of composted mortalities is prohibited.

Type of disposal:  rendering  
 composting  
 incineration (in approved incinerator only)

#### Mass Mortalities

A plan for [mass mortalities](#) is in place.

What steps will be taken in the case of mass mortalities?

Burial is first option considered, second option transport to Brady Landfill and  
third option compost on site.

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### 11.0 Project Site Description: Land Use Planning Considerations

For assistance contact your [Community and Regional Planning Regional Office](#).

#### Development Plan and Zoning Bylaw

The Planning District or Municipal Development Plan and Zoning By-law adopted under [The Planning Act](#), set policy and regulations for the use and development of land. A proposed livestock operation must comply with the requirements of this bylaw. In the absence of a By-law, the [Provincial Planning Regulation](#) under [The Planning Act](#) applies.

### Development Plan

Every Development Plan must contain a livestock operation policy (LOP) that identifies areas where new or expanded livestock operations may be allowed. It must also set general standards for the location and setback of livestock operations. Identifying the Development Plan's land use designation and policies (for the planning district or municipality that affect the site) will help confirm the project site's compliance. The Development Plan designations for the spread fields (if something other than agricultural) will indicate the potential loss of the fields in the future due to possible development.

Name of Planning District	RM of Ste Anne
Development Plan by-law number	13-2007
Land use designation of project site	Rural Agricultural Area
Livestock operation policies – quote supportive policy numbers	RM of Ste Anne Development Plan Sections 5.1.1.2 & 5.1.1.4
Other Development Plan policies – quote supportive policy numbers	
Non-supportive Development Plan policies	

The Development Plan livestock operation policies support the size and location of the proposed operation.

The Development Plan designations support the long term use of the proposed spread fields.

### Zoning By-law

Identifying the zoning for the project site, the proposed spread fields and the related zoning provisions, helps determine the project's compliance and the minimum separation distances needed between the operation and property boundaries and other natural features and land uses. The zoning bylaw contains specific regulations that govern location and setback of livestock operations.

What are the minimum project site requirements stated in the Zoning By-law?

	Project site dimensions	Minimum zoning bylaw site requirements
Minimum site area	147.34 acres	80 acres
Minimum site width	1000 ft	as determined by council
Minimum front yard		as determined by council
Minimum side and rear yard		as determined by council

If any project (front, side or rear) yard site dimensions are less than the Zoning By-law minimum, a Variation Order from the Municipality will be required.

### Separation Distances (Zoning Bylaw or Provincial Planning Regulation)

Using the proposed size of the operation (see [Animal Units Calculation Table](#)) and the type of animal housing and manure storage facility, complete the following table.

Indicate the distance from:

- a. earthen manure storage facility or b. feedlot and  
c. animal confinement facility or d. non-earthen manure storage facility...

...to the following land use features (if applicable)	Indicate minimum separation distance required in the zoning bylaw or Provincial Planning Regulation (Check appropriate box(es))		If land use feature is less than the minimum separation distance	
	<input checked="" type="checkbox"/> a. <input type="checkbox"/> b.	<input checked="" type="checkbox"/> c. <input type="checkbox"/> d.	Provide actual distance	Provide location or name of feature (e.g. Red River)
Residence/dwelling	1968 ft	984 ft	1280 ft	to nearest residence
<u>Designated area</u> (non-agricultural)	7874 ft	5249 ft	8640 ft	rural residential area to south of site
Surface water			>2.25 miles to the north of yard site	Seine River
Surface watercourse	330 ft		approx 650 ft	to Rd 30 ditch west of yard
Crown land			greater than 1 mile	no Crown Land in area
Wildlife Management Area			greater than 1 mile	none in area
Livestock operation			approx 3/4 mile	Goosen poultry
Other significant features/land uses			approx 5000 ft	Seine River Diversion to south west



If Crown Lands are located within one mile, provide coding. Information can be obtained from the Interdepartmental Operations Crown Lands Plans through the [Manitoba Legislative Library](#) or contact Manitoba Conservation and Water Stewardship at (204) 619-2230.

If undesignated Crown Lands will be used for manure spreading purposes, including the laying of pipe or clearing activity, and use will require a Crown Lands General Permit disposition for the use and access of the subject Crown Lands Parcel(s).

In cases where minimum separation distances are not stated in the Zoning By-law or Development Plan, the minimum separation distances in the [Provincial Planning Regulation](#) apply.

Note: If any separation distance is less than the zoning by-law minimum, a Variation Order will be required from the Municipality.

#### Setback Distances (Livestock Manure and Mortalities Management Regulation)

Using the following table to indicate the distance from:

Feature	Structure	Minimum setback distance required	Provide actual distance (m)	Provide location or name of feature (e.g. Red River)
Surface watercourse, sinkhole, spring, or well	Manure storage facility	100 m	480 ft	well
	Field storage	100 m	varies, 100 m +	well and ditch along municipal Rd 30 west of yard
	Composting site	100 m	N/A	No composting done on site composted at Alleta Holsteins
	Confined livestock area	100 m	N/A	All livestock held in confinement barn
Property Line	Manure storage facility	100 m	100 m	As indicated in EMS permit
	Composting site	100 m	N/A	No composting done on site composted at Alleta Holsteins
	Confined livestock area	100 m	N/A	All livestock held in confinement barn

If any setback distances have not been met, please provide explanation below:

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---



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Show: a) location of the project site, location and ownership of spread fields and b) land uses and significant features including dwellings (i) within a 1 mile radius of the project site and (ii) within and adjacent to each spread field on a Land Use & Spread Field Map. (See [Land Use & Spread Field Map Example](#)).

### 12.0 Truck Haul Routes and Access Points

One consideration with new or expanding livestock operations is the potential impact on existing public roads (municipal and provincial), access and the need for improvements or mitigation. Complete the following table.

Vehicle Type	Estimated Average Number of times per day accessing		Access from PTH/PR onto site will mainly require a Left or Right Hand Turn Please check one				Access onto PTH/PR from site will mainly require a Left or Right Hand Turn Please check one			
	Provincial Trunk Highway (PTH)	Provincial Road (PR)	Provincial Trunk Highway (PTH)		Provincial Road (PR)		Provincial Trunk Highway (PTH)		Provincial Road (PR)	
			LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
Truck	2-3	2-3		X		X	X		X	
Tractor Trailer	1	1		X		X	X		X	
Other – Specify										

Note: Milk truck will come once per day. Silage trucks during the summer will haul on municipal roads from the fields. Feed truck average two times per week.

Identify what roads and access points will be used for the proposed operation? (See [Truck Haul Routes and Access Points Map](#) for an example).

For help with mapping, contact your [Community and Regional Planning Regional Office](#).

Truck Haul Routes and Access Points Map attached

### 13.0 Conservation Data Centre Report

A Conservation Data Centre Report must be requested and the response attached to this site assessment. The request may be submitted electronically at:

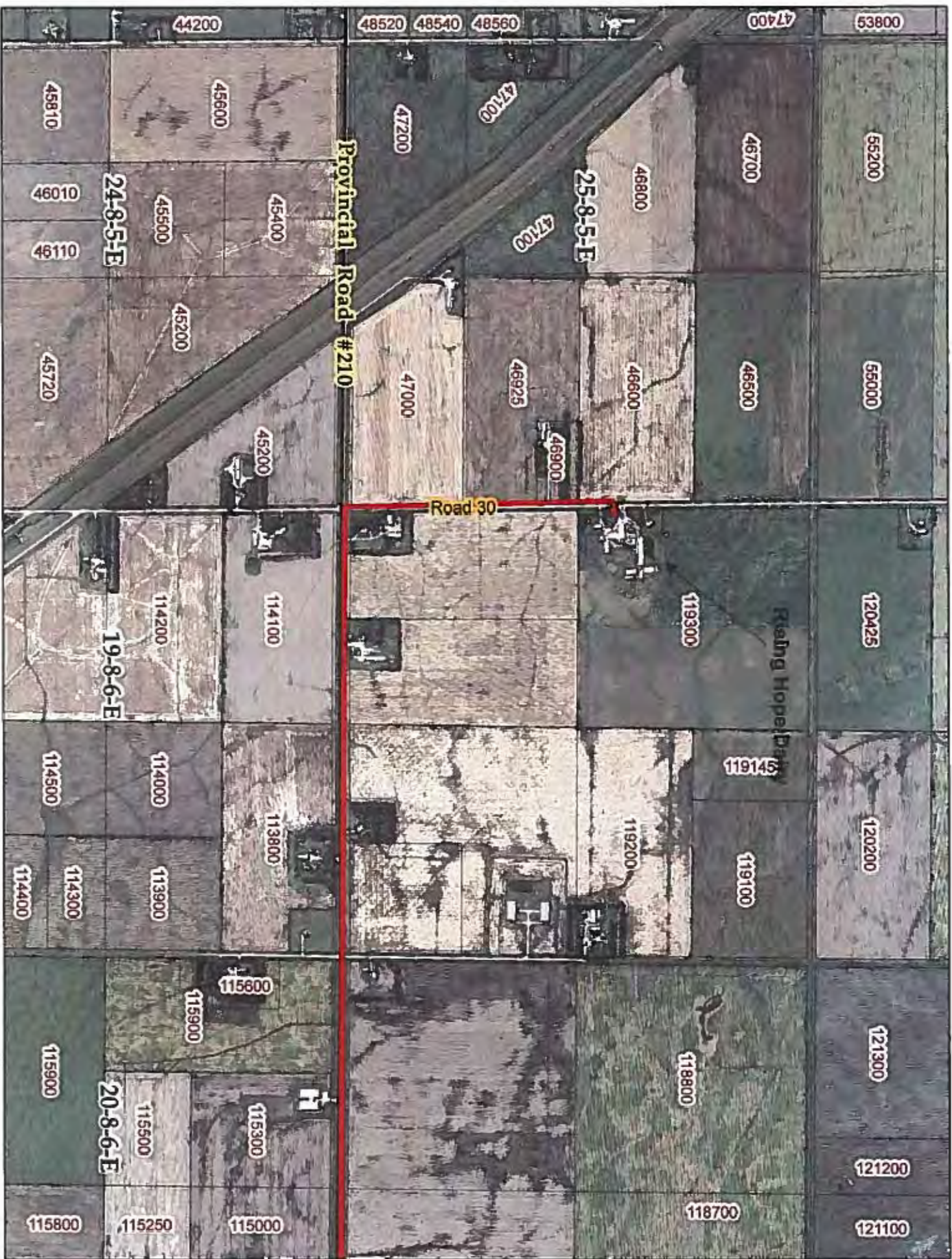
[www.gov.mb.ca/conservation/cdc](http://www.gov.mb.ca/conservation/cdc)

Were rare species identified in the Conservation Data Centre Report?

Yes

No

Trucking Route - Rising Hope Dairy



#### 14.0 Supporting Documents

Check off the supporting documents included in this submission:

- Contact Information and Privacy and Publication Notice
- Location Map (shows proposed project within rural municipality)
- Animal Units Calculation Table
- Water Requirement Calculation Table
- Manure Production Calculator Table
- Existing and Proposed Manure Storage Facility Dimensions Tables (if applicable)
- Manure Application Field Characteristics Table
- Crop Rotation Table
- Recent manure application field soil sample results (Nitrate- N lb/ac at 0-6 and 6-24 inch depths, Phosphorus – ppm at 0-6 inch depth)
- Land Base Calculator
- Project Site Plan (proposed operation showing current and proposed structures)
- Land Use and Spread Field Map (location and ownership of operation, spread fields, location and distance to non-agricultural uses, development plan designation, zoning for project site and spread fields)
- Truck Haul Routes and Access Points Map (with routes and access points on municipal/provincial roads and/or provincial trunk highways)
- Response from the Conservation Data Centre
- Other, please specify:

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#### 15.0 Declaration

I do hereby verify that the information contained in the Site Assessment and all required Supporting Documents is accurate and complete to my knowledge

Date: May 11/15

Signature: Gay Johnson

## Gary Plohman

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**From:** Friesen, Chris (CWS) <Chris.Friesen@gov.mb.ca>  
**Sent:** April-21-15 8:50 AM  
**To:** 'Gary Plohman'  
**Subject:** RE: rising hope dairy trc

Gary

Thank you for your information request. I completed a search of the Manitoba Conservation Data Centre's rare species database and found no occurrences at this time for your area of interest.

The information provided in this letter is based on existing data known to the Manitoba Conservation Data Centre at the time of the request. These data are dependent on the research and observations of CDC staff and others who have shared their data, and reflect our current state of knowledge. **An absence of data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present;** in many areas, comprehensive surveys have never been completed. Therefore, this information should be regarded neither as a final statement on the occurrence of any species of concern, nor as a substitute for on-site surveys for species as part of environmental assessments.

Because the Manitoba CDC's Biotics database is continually updated and because information requests are evaluated by type of action, any given response is only appropriate for its respective request. Please contact the Manitoba CDC for an update on this natural heritage information if more than six months pass before it is utilized.

Third party requests for products wholly or partially derived from Biotics must be approved by the Manitoba CDC before information is released. Once approved, the primary user will identify the Manitoba CDC as data contributors on any map or publication using Biotics data, as follows as: Data developed by the Manitoba Conservation Data Centre; Wildlife Branch, Manitoba Conservation and Water Stewardship.

**This letter is for information purposes only - it does not constitute consent or approval of the proposed project or activity, nor does it negate the need for any permits or approvals required by the Province of Manitoba.**

We would be interested in receiving a copy of the results of any field surveys that you may undertake, to update our database with the most current knowledge of the area.

If you have any questions or require further information please contact me directly at (204) 945-7747.

Chris Friesen  
Coordinator  
Manitoba Conservation Data Centre  
204-945-7747  
[chris.friesen@gov.mb.ca](mailto:chris.friesen@gov.mb.ca)  
<http://www.gov.mb.ca/conservation/cdc/>

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**From:** Gary Plohman [<mailto:srossing@mymts.net>]  
**Sent:** April-16-15 11:53 AM  
**To:** Friesen, Chris (CWS)  
**Subject:** re: rising hope dairy trc

Good morning Chris

Attached is a table as well as a map summarizing the manure spread acres for the proposed expansion to Rising Hope Dairy in the RM of Ste Anne at NW 30-08-06E. We are looking for information regarding the existence of rare plant species in the area for his technical review.

Thanks for your assistance.

Gary Plohman, P. Eng

Landowner: P-FOUR MANAGEMENT GRP. INC.

Address: 1389 NIAKWA RD. E.  
WPG. MB.  
R2# 3T3

Has the following fields available for manure application.

<u>Legal Description</u>	<u>Acres</u>
<u>SW 35 8 SE</u>	<u>38.67</u>
<u>SE 35 8 SE</u>	<u>38.30</u>
<u>SE 35 8 SE</u>	<u>75.60</u>
<u>SW 35 8 SE</u>	<u>69.35</u>
_____	_____
_____	_____
_____	_____
_____	_____

Livestock Operator: Raymond Harris, Danny Harris  
NW 20-8-6E FAX 355-4760  
per: Alvin Plett

Landowner signature: [Signature] Date: Dec 8/09

Livestock Operator signature: \_\_\_\_\_ Date: \_\_\_\_\_

Landowner: Jason & Lynn Goossen

Address: Box 93A RRI  
Ste. Aline, ND  
R5H 1R1

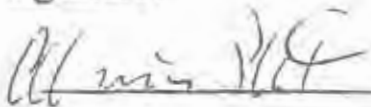
Has the following fields available for manure application.

<u>Legal Description</u>	<u>Acres</u>
<u>NE-36-8-5E</u>	<u>80</u>
<u>E4-1-8-5F</u>	<u>130</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

Livestock Operator: **Rising Hope Dairy Inc.**  
**NW 30 - 8 - 6E**  
**per: Alvin Plett**

Landowner signature: 

Date: 7/21/15

Livestock Operator signature: 

Date: 7/21, 15

\*\*Note: If you sign up for manure, we offer you either manure or \$15 per Acre in the next 3 years.



Landowner: HAROLD GOSNELL

Address: BOX 22 GRP  
RR2 LORISTE MO  
MOB 040

Has the following fields available for manure application.

<u>Legal Description</u>	<u>Acres</u>
<u>NW 30-8-6E</u>	<u>160</u>
<u>NE 30-8-6E</u>	<u>80</u>

Livestock Operator: Rising Hope Dairy, Inc  
NW 30-8-6E  
per: Alvin Plett

Landowner signature: [Signature] Date: 12/3/15

Livestock Operator signature: [Signature] Date: Nov 17, 15

Note: If you sign up for manure, we offer you either manure or \$15 per acre in the next 3 years

Landowner: Gurzynowski & Assoc (1967) LTD

Address: Box 137-A  
RR2L  
LORETTE, MB

Has the following fields available for manure application.

<u>Legal Description</u>	<u>Acres</u>
<u>NW 6-9-6E</u>	<u>157</u>
<u>NE 6-9-6E</u>	<u>80</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

Livestock Operator: **Rising Hope Dairy Inc.**  
NW 30 - 8 - 6E  
per: Alvin Plett

Landowner signature: *[Signature]* Date: March 27/2015

Livestock Operator signature: *[Signature]* Date: March 29, 15

\*\*Note: If you sign up for manure, we offer you either manure or \$15 per Acre in the next 3 years.

*Liquid manure must be applied by injection according to the rules of Manitoba government.*


Landowner: LOREN P WARKENTJIN

Address: Box 121  
STE ANNE MI  
RSH 1R1

Has the following fields available for manure application.

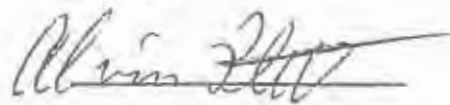
<u>Legal Description</u>	<u>Acres</u>
<u>NW-25-P-5E</u>	<u>80</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Livestock Operator: Rising Hope Dairy Inc.  
NW 30 - 8 - 6E  
per: Alvin Plett

Landowner signature: 

Date: March 16, 2015

Livestock Operator signature:



Date: March 16, 2015

\*\*Note: If you sign up for manure, we offer you either manure or \$15 per Acre in the next 3 years.