

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:

Lactaria Holsteins Ltd

Operation location (project site):  **W1/2 of 7-7-8E**

Rural Municipality (RM) of **Ste Anne**

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

W1/2 of 7-7-8E

Manitoba Premises Identification Number: **MB1026028**

Municipal tax roll number(s): **4000 +4100**

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

Location Map attached



No. 82

R.M. OF STE. ANNE

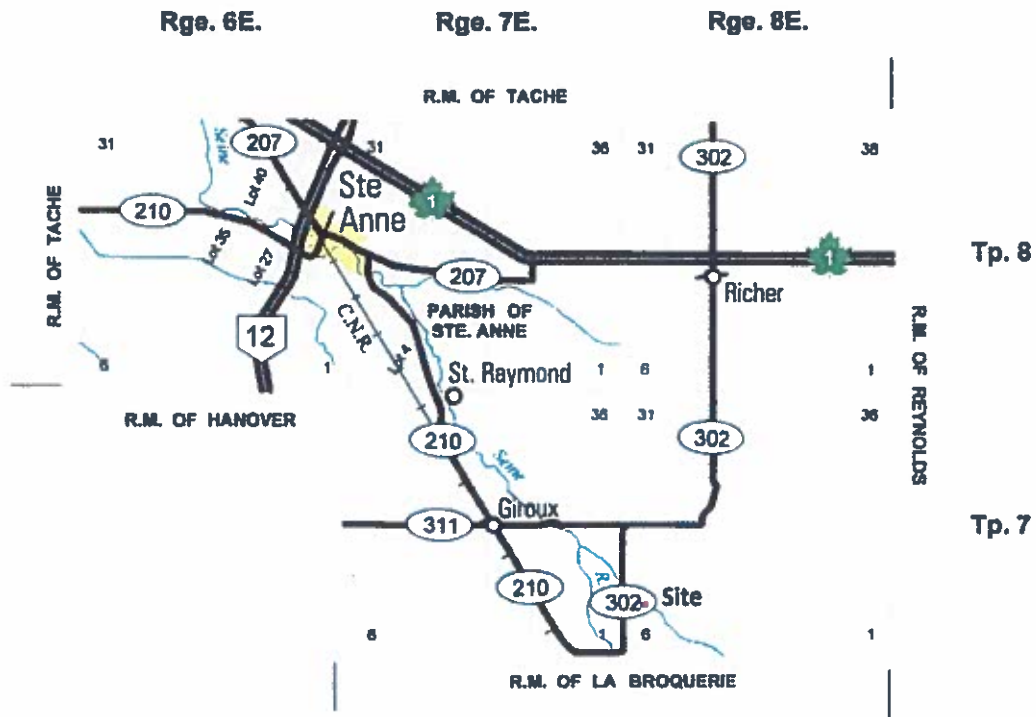
MAP REVISED:



MANITOBA
 TRANSPORTATION AND GOVERNMENT SERVICES
 HIGHWAY PLANNING AND DESIGN BRANCH
 DRAFTING SECTION
 WINNIPEG
 MARCH 2003

LEGEND

TRANS-CANADA HIGHWAY		ACCESS ROADS	
PROVINCIAL TRUNK HIGHWAYS		RAILWAYS	
PROVINCIAL ROADS			



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.

Portions of existing buildings will be removed and replaced with more modern facilities

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)
Dairy cows	149 cows (& assoc. livestock)	298 a.u. (existing)
	Proposed:	
	270 mature cows	
	240 replacement stock	503 a.u (proposed)

Animal Units Calculation Table attached (existing and proposed inventories on separate page vs. non-traditional herd make up)

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 ¹	Mature cows (lactating and dry) including associated	149		2	298	
	Mature cows (lactating and dry)			1.35	0	
	Heifers (0 to 3 months)			0.16	0	
	Heifers (4 to 13 months)			0.41	0	
	Heifers (> 13 months)			0.87	0	
	Bulls			1.35	0	
	Veal calves			0.13	0	
Beef	Beef cows including associated livestock			1.25	0	
	Backgrounder			0.5	0	
	Summer pasture / replacement heifers			0.625	0	
	Feeder cattle			0.769	0	
Pigs	Sows - farrow to finish (234-254 lbs)			1.25	0	
	Sows - farrow to weanling (up to 11 lbs)			0.25	0	
	Sows - farrow to nursery (51 lbs)			0.313	0	
	Boars (artificial insemination units)			0.2	0	
	Weanlings, Nursery (11-51 lbs)			0.033		
	Growers / Finishers (51-249 lbs)			0.143	0	
Chickens	Broilers			0.005	0	
	Roasters			0.01	0	
	Layers			0.0083	0	
	Pullets			0.0033	0	
	Broiler breeder pullets			0.0033	0	
	Broiler breeder hens			0.01	0	
Turkeys	Broilers			0.01	0	
	Heavy Toms			0.02	0	
	Heavy Hens			0.01	0	
Horses	Mares			1.333	0	
Sheep	Ewes			0.2	0	
	Feeder lambs			0.063	0	
Other Livestock	Type:				0	
	Type:				0	
				Total AUs	298	

EXISTING

Footnotes:

¹ There are 2 methods for calculating animal units for dairy (Farm Practices Guidelines for Dairy Producers in

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 ¹	Mature cows (lactating and dry) including associated livestock			2	0	
	Mature cows (lactating and dry)		270	1.35	365	
	Heifers (0 to 3 months)		60	0.16	10	
	Heifers (4 to 13 months)		60	0.41	25	
	Heifers (> 13 months)		120	0.87	104	
	Bulls			1.35	0	
	Veal calves			0.13	0	
Beef	Beef cows including associated livestock			1.25	0	
	Backgrounder			0.5	0	
	Summer pasture / replacement heifers			0.625	0	
	Feeder cattle			0.769	0	
Pigs	Sows - farrow to finish (234-254 lbs)			1.25	0	
	Sows - farrow to weaning (up to 11 lbs)			0.25	0	
	Sows - farrow to nursery (51 lbs)			0.313	0	
	Boars (artificial insemination units)			0.2	0	
	Weanlings, Nursery (11-51 lbs)			0.033		
	Growers / Finishers (51-249 lbs)			0.143	0	
Chickens	Broilers			0.005	0	
	Roasters			0.01	0	
	Layers			0.0083	0	
	Pullets			0.0033	0	
	Broiler breeder pullets			0.0033	0	
	Broiler breeder hens			0.01	0	
	Broilers			0.01	0	
Turkeys	Heavy Toms			0.02	0	
	Heavy Hens			0.01	0	
Horses	Mares			1.333	0	
Sheep	Ewes			0.2	0	
	Feeder lambs			0.063	0	
Other Livestock	Type:				0	
	Type:				0	
				Total AU's	503	

PROPOSED

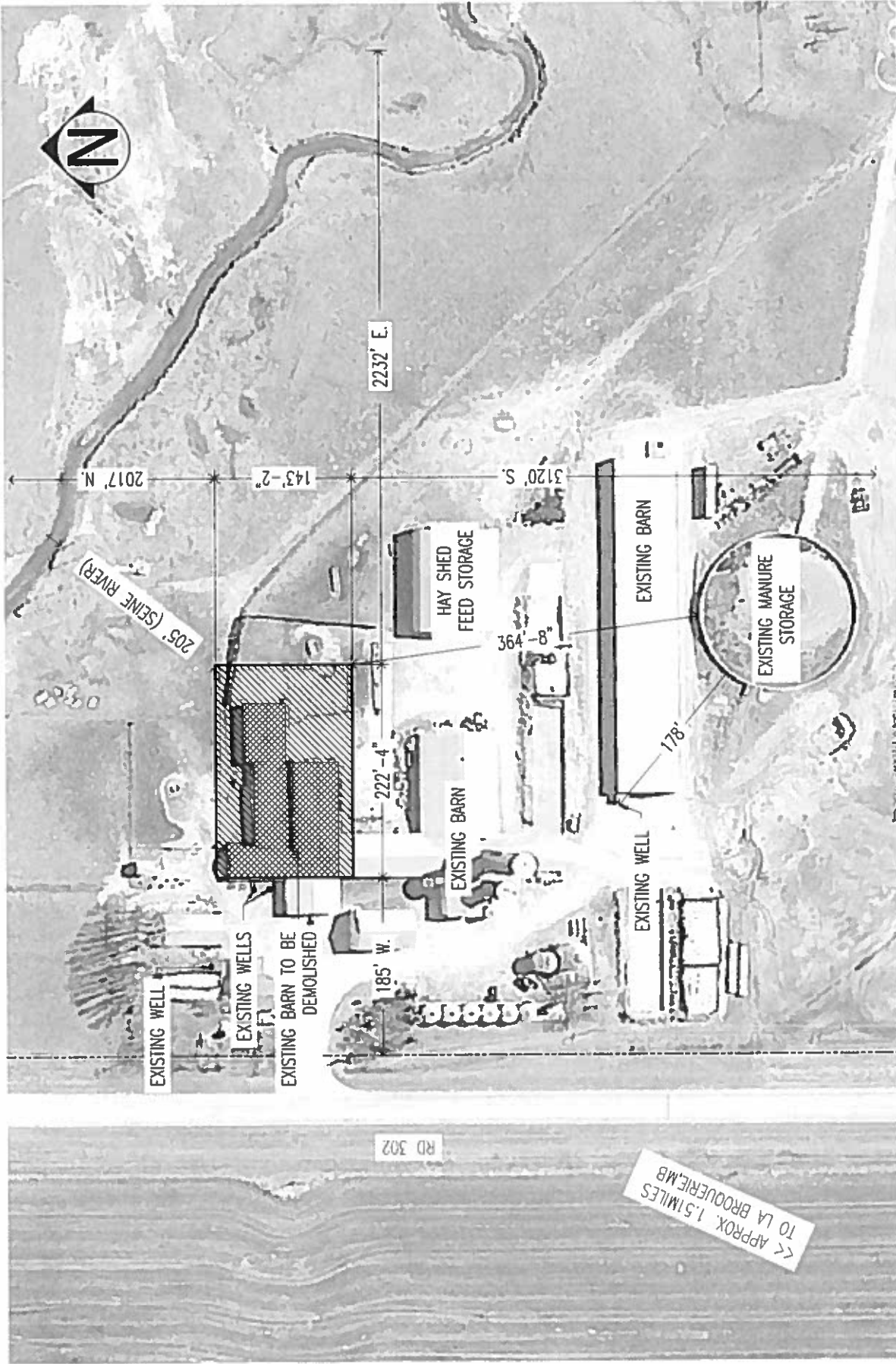
Footnotes:

¹ There are 2 methods for calculating animal units for dairy (Farm Practices Guidelines for Dairy Producers in

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

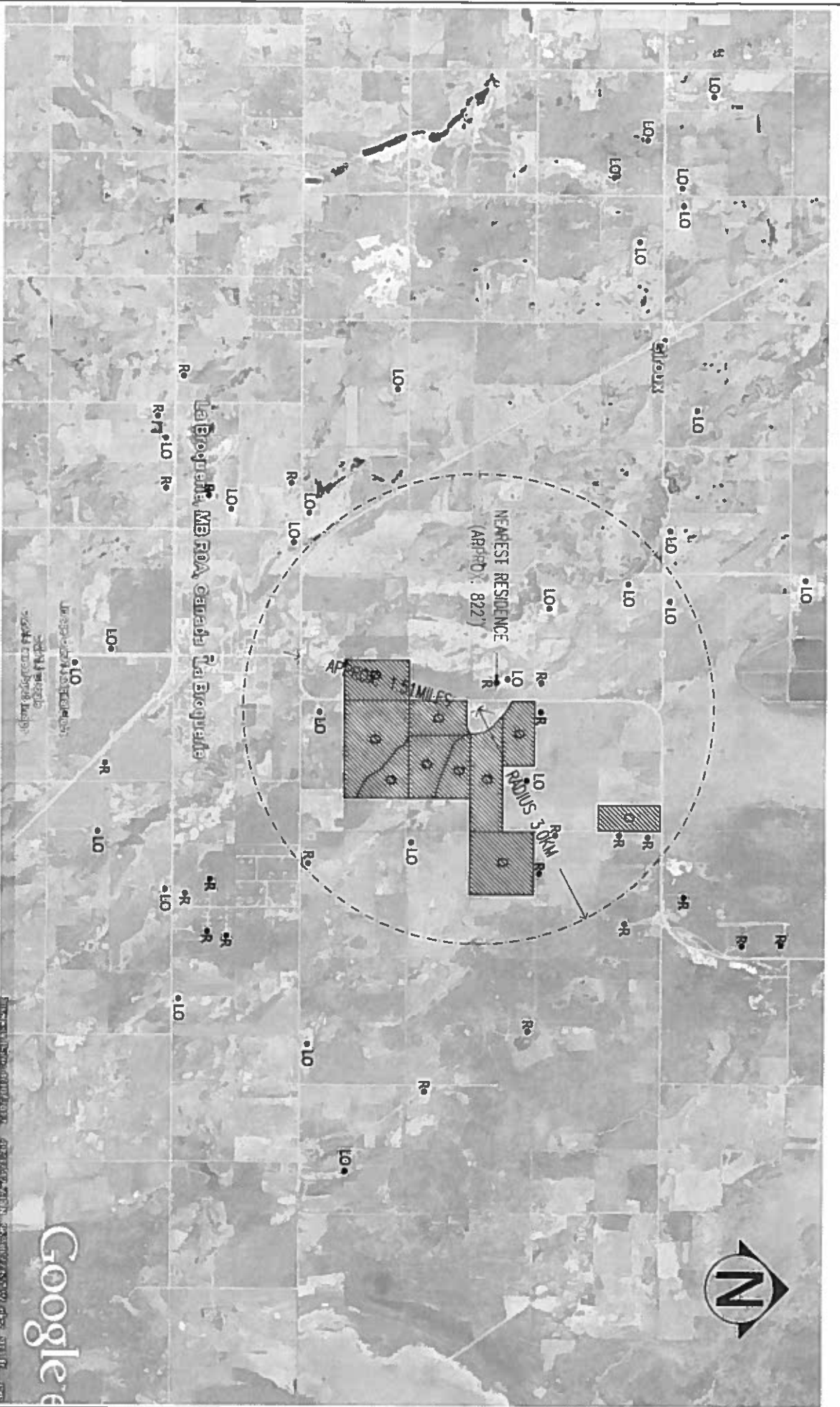


PROJECT NAME	LACTARJA HOLSTEINS W ½ 7-7-8E	BUILDING AREA	N/A
SHEET TITLE	SITE PLAN	DRAWN BY	R. FLORES SOUTH-MAN ENGINEERING
DATE DRAWN	JUNE 2014	DRAWING SCALE	N.T.S.
		SHEET NUMBER	S-P1

South-Man Engineering

UNIT 15-1599 DUGALD ROAD
WINNIPEG, MANITOBA
R2J 0D0
PH: (204) 488-5862
FAX: (204) 488-7559

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



LEGEND:

- LO- LIVESTOCK OPERATIONS
- 0- SPREAD FIELDS (OWNED)
- R- RESIDENCE
- 3km NOTIFICATION AREA FOR THE PUBLIC CONDITIONAL USE HEARING

South-Man Engineering

1407 AS 1898 DISTRICT ROAD
WINDERMERE, MANITOBA
R2J 0V3

1407-1898 RD
WINDERMERE
R2J 0V3

PROJECT NAME	LACTARIA HOLSTEINS W 1/2 7-7-8E	BUILDING AREA	N/A
SHEET TITLE	LAND USE & SPREAD FIELD MAP	DRAWN BY	R. FLORES
DATE DRAWN	JUNE 2014	DRAWING SCALE	N.T.S.
THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.		SHEET NUMBER	SP-2

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

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 |
| <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. 

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
*(annual water analysis report submitted annually to Dairy Farmers of Manitoba)

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

If yes, identify:

Name of the surface water feature: _____

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

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: 9720 imperial gallons or litres
 Maximum annual use: 3,547,800 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.

Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	IG/day per animal in summer	IG/day (Imperial gallons per day)
Beef/Dairy/Bison				
Feeder/heifer/steer (600 lb.)	240	5	9	2160
Feeder (900 lb.)		7	12	-
Feeder (1250 lb.)		10	15	-
Cow/calf pair		12	15	-
Dry cow	30	10	12	360
Milking cow	240	25	30	7200
Bison		8	10	-
Horses				
Horses		8	11	-
Hoos				
Sow (Farrow/wean)		6.5		-
Dry Sow/Boar		4		-
Feeder		3		-
Nursery (33 lb.)		2		-
Chickens				
Broilers		0.035		-
Roasters/Pullets		0.04		-
Lavers		0.055		-
Breeders		0.07		-
Turkeys				
Turkey Growers		0.13		-
Turkey Heavies		0.16		-
Sheep/Goats				
Sheep/Goats		2		-
Ewes/Does		3		-
Lambs/Kids (90 lb.)		1.6		-
TOTAL (IG/day)				9720

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
9720	3547800	IG
44187.12	16128298.8	litres
44.18712	16128.2988	cubic decametres (dam ³)

Enter this number on page 7 of Application Form.

Conversion Factor: 1 IGPM = 4 546 l/m

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 type="checkbox"/>	<input type="checkbox"/>
Steel/concrete tank has between 250 and 500 days storage	<input checked="" type="checkbox"/>	<input type="checkbox"/> (total b/w all tanks/pits)
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 checked="" type="checkbox"/>
Field storage meets required setbacks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
All application fields are soil tested annually for nitrate-N and Olsen phosphorus	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
All manure is applied according to a manure management plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Licensed commercial manure applicator is used to apply manure	<input type="checkbox"/>	<input type="checkbox"/>
Abandoned wells have been properly sealed	<input type="checkbox"/>	<input type="checkbox"/> N/A

Other:

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.

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): Red River Basin

Name of sub-watershed(s): Seine River Watershed

Name of Integrated Watershed Management Plan for the proposed project site, if applicable: Seine River Integrated Water Management Plan

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.)

liquid volume: 2,112,045 gal/yr solid weight: 107,310 ft³/yr

Manure Production Calculator Table attached

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**
 (SOLID MANURE)

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

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: Floating straw cover

Shelterbelt planting: yes no existing shelterbelt

Other measures (specify): Additional trees to be planted.

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 (Days) (C)	Number of Animals (Capacity) (ft)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)
		References (C)	Manure Type (D)	Default Manure Production (ft ³ /animal/day) (E)	Operation Manure Production (ft ³ /animal/day) (F)			
Animal Type	Type of Operation		Default Manure Production (ft ³ /year/bird space)	Operation Manure Production (ft ³ /year/bird space)	Production Period (Days)	Number of Birds (Capacity)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)	
Dairy (milking cows and associated livestock)	Free Stall		Semi-Solid ¹	3.5				
			Solid	3.4				
			Liquid ¹	3.5	3.87	365	240	2,112,044.3
			Semi-Solid ²	3.6				0.0
			Solid	3.5				0.0
Beef	Loose Housing		Solid	3.0	3.0	365	30	32,950.00
			Liquid	0.5				
			Solid	1.2				
			Solid	0.73				
			Solid	0.85	0.85	365.00	240	74,460.00
			Solid	1.1				
			Liquid	2.3				0.0
			Liquid	0.8				0.0
			Liquid	1				0.0
			Liquid	0.1				0.0
Pigs	Grower / Finisher (51 - 249 lbs)		Liquid	0.25				0.0
			Liquid	2.3				0.0
			Liquid	0.8				0.0
			Liquid	1				0.0
			Liquid	0.1				0.0
			Liquid	0.25				0.0
			Liquid	2.3				0.0
			Liquid	0.8				0.0
			Liquid	1				0.0
			Liquid	0.1				0.0
Chickens	Broilers - floor ³			1.23				
			Broiler breeder hens ⁴	2.3				
			Broiler breeder pullets ⁵	0.88				
			Froasters - floor ⁶	1.16				
			Layers - cage ⁷	2.33				0.0
			Layers - floor ⁸	1.88				
			Layers - solid pack ⁹	0.71				
			Pullets - floor ¹⁰	0.75				0.0
			Pullets - solid pack ¹¹					
			Broilers ¹²	2.83				
Turkeys	Heavy flocks ¹³			5.58				
				3.32				

Siting of a manure storage facility in accordance with all requirements of the Livestock Manure and Mortalities Management Regulation (M.R. 42/98) is the responsibility of the operator.

Instructions and footnotes:

¹ 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.

² 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

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

⁴ Milking cows includes all lactating and dry cows.

⁵ Default manure production estimates for semi-solid and liquid dairy manure include manure and washwater from the milking parlor.

⁶ 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/ft³.

⁷ One-third litter floor, two-thirds slatted floor. Manure and litter removed from barn at 40% moisture content, with a density of 25 lb/ft³.

⁸ Manure removed from barn at 90% moisture content with a density of 59 lb/ft³.

⁹ Poultry operations using litter (solid pack) must provide an estimate of yearly manure production

Existing and Proposed Manure Storage Facility Dimension Table

If applicable, indicate the dimensions of any existing manure storage facility (MSF) that will be used to store manure from the proposed project:

CELL	Existing Manure Storage Facility Dimensions							Storage Capacity (days)
	Width (ft)	Length (ft)	Depth (ft)	Height (ft) (Above Grade)	Slope (H:L)			
					Inside	Outside		
Primary	4	105	8	0		1	:	3
Secondary	4	105	8	0		1	:	3
Tertiary	20	40	8				:	5
Circular Tank		Diameter (ft)	Depth (ft)	Height (ft) (Above Grade)				
		164	12					251

Permit/Registration # Circ. Tank LM-0648

Existing and Proposed Manure Storage Facility Dimension Table

If applicable, indicate the dimensions of any existing manure storage facility (MSF) that will be used to store manure from the proposed project:

CELL	Existing Manure Storage Facility Dimensions							Storage Capacity (days)	
	Width (ft)	Length (ft)	Depth (ft)	Height (ft) (Above Grade)	Slope (H:L)				
					Inside	Outside			
Primary	6	78	8	0		1	:		3
Secondary	4	108	10	0		1	:		4
Tertiary	4	108	10				:		4
7+4+									
Circular Tank		Diameter (ft)	Depth (ft)	Height (ft) (Above Grade)					
								0	

Permit/Registration # _____

Existing and Proposed Manure Storage Facility Dimension Table

If applicable, indicate the dimensions of any existing manure storage facility (MSF) that will be used to store manure from the proposed project:

CELL	Existing Manure Storage Facility Dimensions							Storage Capacity (days)	
	Width (ft)	Length (ft)	Depth (ft)	Height (ft) (Above Grade)	Slope (H:L)				
					Inside		Outside		
Primary	4	108	10	0		1	:		4
Secondary	4	108	10	8		1	:		4
Tertiary							:		0
Circular Tank									
		Diameter (ft)	Depth (ft)	Height (ft) (Above Grade)					
									0

Permit/Registration # _____

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:

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.

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

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

Total suitable area available for manure application

783 acres*

Manure Application Field Characteristics Table attached

*1106 acres owned and available for spreading; 3 fields not soil sampled in fall 2014

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 km² is greater than two times the annual crop removal rate of P₂O₅ in that area. Currently the rural municipalities of Hanover and La Broquerie are considered to be "*certain areas*".

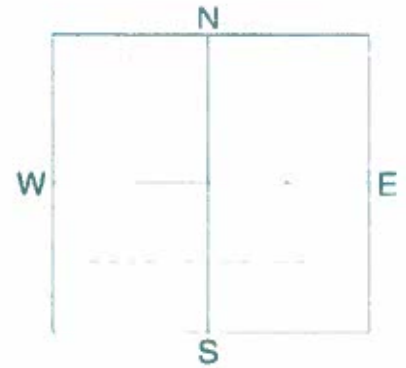
A livestock operation is considered to be located within a "*certain area*" if any part of the operation is located within the "*certain area*". This may include, but not limited to, barn(s), confined livestock area(s), field storage location(s), manure storage facility(ies), and/or spread filed(s).



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

SOIL TEST REPORT

FIELD ID **1**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **7-8E** RANGE
 SECTION **18** QTR NE ACRES **65**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
LACTARIA HOLSTEINS

SUBMITTED BY: **TE3016**
PATERSON GRAIN-STEINBACH
385 PTH 12N
STEINBACH, MB **R5G 1V1**

REF # **14155509** BOX # **0**
 LAB # **NW139772**

Date Sampled **10/22/2014**

Date Received **10/25/2014**

Date Reported **1/6/2015**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
Depth	Concentration		Yield Goal	Suggested Guidelines	Yield Goal	Suggested Guidelines	Yield Goal	Suggested Guidelines			
Nitrate	0-6"	11 lb/ac	Corn-Silage	Broadcast	Corn-Grain	Broadcast					
	6-24"	30 lb/ac	YIELD GOAL		YIELD GOAL		YIELD GOAL				
Phosphorus	0-24"	41 lb/ac	15 Tons		160 BU		0				
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
Potassium			Broadcast		Broadcast						
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Chloride			N 85		N 121		N				
	0-6"	66 lb/ac	P ₂ O ₅ 39	Broadcast	P ₂ O ₅ 37	Broadcast	P ₂ O ₅				
Sulfur	6-24"	360 +lb/ac	K ₂ O 114	Broadcast	K ₂ O 136	Broadcast	K ₂ O				
			Cl		Cl		Cl				
Boron			S 0		S 0		S				
			B		B		B				
Zinc		1.64 ppm	Zn 2	Broadcast	Zn 4	Broadcast	Zn				
			Fe		Fe		Fe				
Iron			Mn		Mn		Mn				
			Cu		Cu		Cu				
Manganese			Mg 0		Mg 0		Mg				
			Ume		Ume		Ume				
Copper			Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
			Buffer pH				% Ca	% Mg	% K	% Na	% H
Magnesium		688 ppm	0-6" 8.3		35.4 meq		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
			6-24" 8.2				82.9	16.2	0.5	0.4	
Calcium		5873 ppm	Sol. Salts								
Sodium		30 ppm									
Org.Matter		6.0 %									
Carbonate(CCE)											
Sol. Salts	0-6"	0.37 mmho/cm									
	6-24"	0.7 mmho/cm									

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

Crop 1: Nitrogen is credited 30 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 soil tests. Crop Removal: P2O5 = 34 K2O = 125 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

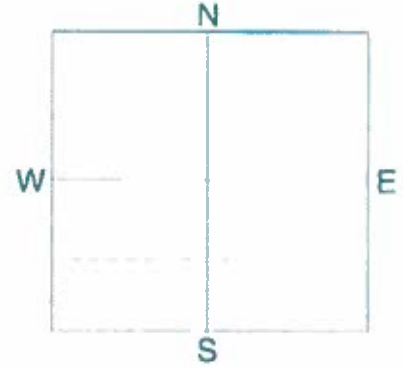
Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 64 K2O = 43 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



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SOIL TEST REPORT

FIELD ID 4+4N
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP 7-8E RANGE
 SECTION 7 QTR NE ACRES 180
 PREV. CROP Soybeans



SUBMITTED FOR:
LACTARIA HOLSTEINS

SUBMITTED BY: TE3016
PATERSON GRAIN-STEINBACH
385 PTH 12N
STEINBACH, MB R5G 1V1

REF # 14155511 BOX # 0
 LAB # NW139781

Date Sampled 10/22/2014

Date Received 10/25/2014

Date Reported 1/6/2015

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
				Corn-Silage		Corn-Grain					
			YIELD GOAL		YIELD GOAL		YIELD GOAL				
			15 Tons		160 BU		0				
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
			Broadcast		Broadcast						
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Nitrate	0-6" 20 lb/ac 6-24" 27 lb/ac	.....	N 79		N 115		N			
Phosphorus	Olsen 38 ppm	.....	P ₂ O ₅ 15	Band (2x2) *	P ₂ O ₅ 15	Band (2x2) *	P ₂ O ₅			
Potassium	185 ppm	.....	K ₂ O 47	Broadcast	K ₂ O 22	Broadcast	K ₂ O			
Chloride			Cl		Cl		Cl				
Sulfur	0-6" 58 lb/ac 6-24" 84 lb/ac	.....	S 0		S 0		S			
Boron			B		B		B				
Zinc	2.81 ppm	.....	Zn 0		Zn 0		Zn			
Iron			Fe		Fe		Fe				
Manganese			Mn		Mn		Mn				
Copper			Cu		Cu		Cu				
Magnesium	428 ppm	.....	Mg 0		Mg 0		Mg			
Calcium	4336 ppm	.....	Lime		Lime		Lime			
Sodium	49 ppm	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Org.Matter	2.8 %	Buffer pH				% Ca	% Mg	% K	% Na	% H
Carbonate(CCE)					25.9 meq		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
Sol. Salts	0-6" 0.29 mmho/cm 6-24" 0.2 mmho/cm	0-6" 8.1 6-24" 8.3				83.6	13.8	1.8	0.8	

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

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 30 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 soil tests. Crop Removal: P2O5 = 34 K2O = 125 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

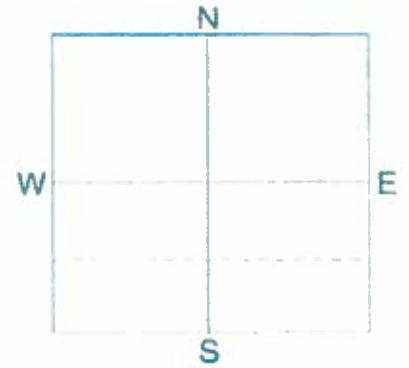
Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 64 K2O = 43 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



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SOIL TEST REPORT

FIELD ID **5**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **7-8E** RANGE
 SECTION **7** QTR NW ACRES **80**
 PREV. CROP **Alfalfa**



SUBMITTED FOR:
LACTARIA HOLSTEINS

SUBMITTED BY: **TE3016**
PATERSON GRAIN-STEINBACH
385 PTH 12N
STEINBACH, MB RSG 1V1

REF # **14155474** BOX # **0**
 LAB # **NW139743**

Date Sampled **10/22/2014**

Date Received **10/25/2014**

Date Reported **1/6/2015**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
			Alfalfa		Alfalfa		Alfalfa			
Nitrate	0-6"	14 lb/ac	YIELD GOAL		YIELD GOAL		YIELD GOAL			
	6-24"	9 lb/ac	5 Tons		6 Tons		7 Tons			
	0-24"	23 lb/ac	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
Phosphorus	Olsen	18 ppm	Broadcast		Broadcast		Broadcast			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Potassium		107 ppm	N	0	N	0	N	0		
			P ₂ O ₅	34 Broadcast	P ₂ O ₅	40 Broadcast	P ₂ O ₅	47 Broadcast		
Chloride			K ₂ O	168 Broadcast	K ₂ O	202 Broadcast	K ₂ O	235 Broadcast		
			Cl		Cl		Cl			
Sulfur	0-6"	44 lb/ac	S	0	S	0	S	0		
	6-24"	222 lb/ac	B	1 Broadcast	B	1 Broadcast	B	1 Broadcast		
Boron		1.1 ppm	Zn	0	Zn	0	Zn	0		
Zinc		2.59 ppm	Fe	0	Fe	0	Fe	0		
Iron		47.8 ppm	Mn	0	Mn	0	Mn	0		
Manganese		2.0 ppm	Cu	1 Broadcast (Trial)	Cu	1 Broadcast (Trial)	Cu	1 Broadcast (Trial)		
Copper		0.53 ppm	Mg	0	Mg	0	Mg	0		
Magnesium		481 ppm	Lime		Lime		Lime			
Calcium		5636 ppm	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Sodium		34 ppm	Buffer pH			% Ca	% Mg	% K	% Na	% H
Org. Matter		5.1 %			32.6 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
Carbonate(CCE)		4.4 %	0-6" 8.1			86.4	12.3	0.8	0.5	
Sol. Salts	0-6"	0.34 mmho/cm	6-24" 8.3							
	6-24"	0.4 mmho/cm								

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

Crop 1: Nitrogen is credited 25 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 soil tests. Crop Removal: P2O5 = 30 K2O = 230 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 25 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 soil tests. Crop Removal: P2O5 = 60 K2O = 300 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

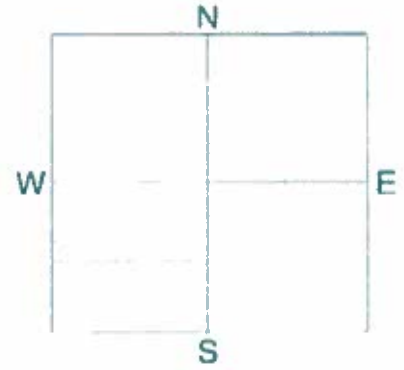
Crop 3: Nitrogen is credited 25 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 70 K2O = 350 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



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SOIL TEST REPORT

FIELD ID **6**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **7-7E** RANGE
 SECTION **1** QTR NE ACRES **80**
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:
LACTARIA HOLSTEINS

SUBMITTED BY: **TE3016**
PATERSON GRAIN-STEINBACH
385 PTH 12N
STEINBACH, MB **R5G 1V1**

REF # **14155581** BOX # **0**
 LAB # **NW184827**

Date Sampled **11/17/2014**

Date Received **11/28/2014**

Date Reported **1/6/2015**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice					
			Soybeans		Soybeans		Corn-Grain					
			YIELD GOAL		YIELD GOAL		YIELD GOAL					
			40 BU		50 BU		160 BU					
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
			Band		Band		Band					
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION				
			N	***	N	***	N	145				
			P ₂ O ₅	11 Band *	P ₂ O ₅	14 Band *	P ₂ O ₅	15	Band (2x2) *			
			K ₂ O	29 Band *	K ₂ O	36 Band *	K ₂ O	59	Band *			
			Cl		Cl		Cl					
			S	0	S	0	S	0				
			B		B		B					
			Zn	0	Zn	0	Zn	0				
			Fe		Fe		Fe					
			Mn		Mn		Mn					
			Cu		Cu		Cu					
			Mg	0	Mg	0	Mg	0				
			Lime		Lime		Lime					
			Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)					
							% Ca	% Mg	% K	% Na	% H	
			0-6" 7.8		27.3 meq		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
			6-24" 8.2				80.8	17.4	0.9	0.9		
			0-6" 23 lb/ac									
			6-24" 24 lb/ac									
			0-24" 47 lb/ac									
Nitrate												
			Olsen	21 ppm								
Phosphorus												
Potassium				97 ppm								
Chloride												
			0-6" 96 lb/ac									
			6-24" 360 +lb/ac									
Sulfur												
Boron												
Zinc				2.30 ppm								
Iron												
Manganese												
Copper												
Magnesium				568 ppm								
Calcium				4407 ppm								
Sodium				56 ppm								
Org.Matter				4.5 %								
Carbonate(CCE)												
			0-6" 0.51 mmho/cm									
			6-24" 0.58 mmho/cm									
Sol. Salts												

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

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

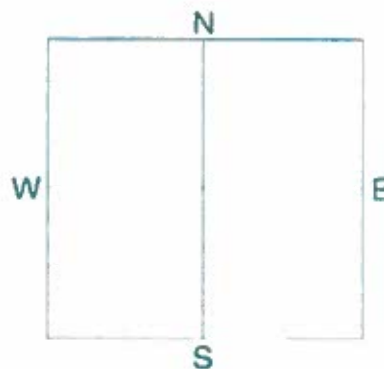
Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 64 K2O = 43 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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

SOIL TEST REPORT

FIELD ID 8
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP 7-8E RANGE
 SECTION 6 QTR NE ACRES 80
 PREV. CROP Alfalfa



SUBMITTED FOR:
LACTARIA HOLSTEINS

SUBMITTED BY: TE3016
PATERSON GRAIN-STEINBACH
385 PTH 12N
STEINBACH, MB RSG 1V1

REF # 14155476 BOX # 0
 LAB # NW139754

Date Sampled 10/22/2014

Date Received 10/25/2014

Date Reported 1/6/2015

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice						
Depth	Concentration		Alfalfa	YIELD GOAL	Alfalfa	YIELD GOAL	Alfalfa	YIELD GOAL					
Nitrate	0-6" 6 lb/ac 6-24" 6 lb/ac	**	5 Tons	6 Tons	7 Tons	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
	0-24" 12 lb/ac		Broadcast		Broadcast		Broadcast		Broadcast				
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen 39 ppm	.....	N 0		N 0		N 0		N 0			
Potassium	243 ppm	.....	P ₂ O ₅ 0		P ₂ O ₅ 0		P ₂ O ₅ 0		P ₂ O ₅ 0			
Chloride			K ₂ O 32	Broadcast	K ₂ O 38	Broadcast	K ₂ O 45	Broadcast	K ₂ O 45	Broadcast			
Sulfur	0-6" 38 lb/ac 6-24" 42 lb/ac	.....	Cl		Cl		Cl		Cl			
Boron	2.2 ppm	.....	S 0		S 0		S 0		S 0			
Zinc	2.52 ppm	.....	B 0		B 0		B 0		B 0			
Iron	41.7 ppm	.....	Zn 0		Zn 0		Zn 0		Zn 0			
Manganese	1.9 ppm	.....	Fe 0		Fe 0		Fe 0		Fe 0			
Copper	0.74 ppm	.....	Mn 0		Mn 0		Mn 0		Mn 0			
Magnesium	518 ppm	.....	Cu 1	Broadcast (Trial)	Cu 1	Broadcast (Trial)	Cu 1	Broadcast (Trial)	Cu 1	Broadcast (Trial)		
Calcium	4600 ppm	.....	Mg 0		Mg 0		Mg 0		Mg 0			
Sodium	93 ppm	.....	Lime		Lime		Lime		Lime			
Org.Matter	3.5 %	.....	Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Carbonate(CCE)	5.2 %	0-6" 8.5		8-24" 8.5		28.3 meq		% Ca	% Mg	% K	% Na	% H
Sal. Salts	0-6" 0.29 mmho/cm 6-24" 0.2 mmho/cm							(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
									81.1	15.2	2.2	1.4	

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

Crop 1: Nitrogen is credited 25 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 soil tests. Crop Removal: P205 = 50 K2O = 250 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 25 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 soil tests. Crop Removal: P205 = 60 K2O = 300 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

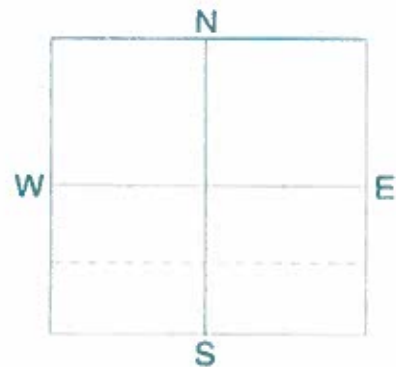
Crop 3: Nitrogen is credited 25 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 70 K2O = 350 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID 9
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP 7-8E RANGE
 SECTION 8 QTR NW ACRES 160
 PREV. CROP Alfalfa



SUBMITTED FOR:
LACTARIA HOLSTEINS

SUBMITTED BY: TE3016
PATERSON GRAIN-STEINBACH
 385 PTH 12N
 STEINBACH, MB RSG 1V1

REF # 14155475 BOX # 0
 LAB # NW139748

Date Sampled 10/22/2014

Date Received 10/25/2014

Date Reported 1/6/2015

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
Nitrate	0-6"	6 lb/ac	Alfalfa		Alfalfa		Alfalfa			
	6-24"	6 lb/ac	YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24"	12 lb/ac	5 Tons		6 Tons		7 Tons			
Phosphorus	Olsen	8 ppm	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Broadcast		Broadcast		Broadcast			
Potassium	63 ppm	.....	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
			N 0		N 0		N 0			
Sulfur	0-6" 6-24"	18 lb/ac 36 lb/ac	P ₂ O ₅ 82	Broadcast	P ₂ O ₅ 98	Broadcast	P ₂ O ₅ 114	Broadcast		
			K ₂ O 212	Broadcast	K ₂ O 254	Broadcast	K ₂ O 297	Broadcast		
Boron	1.4 ppm	.....	Cl		Cl		Cl		
			S 10	Broadcast (Trial)	S 10	Broadcast (Trial)	S 10	Broadcast (Trial)		
Zinc	1.15 ppm	.....	B	0	B	0	B	0	
			Zn 0		Zn 0		Zn 0			
Iron	24.0 ppm	.....	Fe 0		Fe 0		Fe 0		
			Mn 0		Mn 0		Mn 0			
Manganese	1.3 ppm	.....	Cu 3	Broadcast	Cu 3	Broadcast	Cu 3	Broadcast	
			Mg 0		Mg 0		Mg 0			
Copper	0.24 ppm	.....	Lime		Lime		Lime		
Magnesium	504 ppm	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			0-6" 8.3		30.8 meq	% Ca	% Mg	% K	% Na	% H
Calcium	5270 ppm	0-6" 8.3		30.8 meq	65-75	15-20	1-7	0-5	0-5
			6-24" 8.7			85.5	13.6	0.5	0.4	
Sodium	28 ppm	Sol. Salts							
Org.Matter	3.9 %	.....							
Carbonate(CCE)	5.9 %	.....							

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

Crop 1: Nitrogen is credited 25 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 soil tests. Crop Removal: P205 = 30 K2O = 250 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 25 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 soil tests. Crop Removal: P205 = 60 K2O = 300 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: Nitrogen is credited 25 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 soil tests. Crop Removal: P205 = 70 K2O = 350 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

CROP ROTATION TABLE

A Expected Crops in the Rotation	B Acreage	C Historical Yield	D Units	E Source of Yield Informat
Alfalfa	319	2.11	t/ac	MMMP crop variety yield
Corn silage	150	12.8 (4.5)	t/ac (t/ac dry matter)	MMMP crop variety yield
Corn grain	234	95.1	bu/ac	MMMP crop variety yield
Soybeans	80	32	bu/ac	MMMP crop variety yield
Total Net Acreage for Manure Application	783 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 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.



Benchmarks for Better Farm Management

Manitoba Management Plus Program

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MMPP Variety Yield Data Browser

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

[Summary](#)

[Raw Data](#)

Search Summary

Your selected search:

Region(s) Selected: STE. ANNE

Crop(s) Selected: ALFALFA

Variety(s) Selected: All

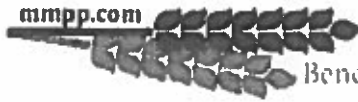
Period Selected: 2003 to 2013

This search returned 46 records from the MASC database, summarized below:

Sum of Farm Varieties:	104 farms
Total Acres:	9,779 acres
Yield per Acre:	2.110 Tons / acre (1.914 tonnes / acre)

[View Raw Data](#)





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Summary

Raw Data

Search Summary

Your selected search:

Region(s) Selected: STE. ANNE

Crop(s) Selected: GRAIN CORN

Variety(s) Selected: All

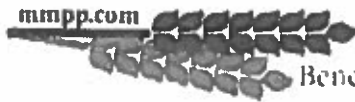
Period Selected: 2003 to 2013

This search returned 117 records from the MASC database, summarized below:

Sum of Farm Varieties:	380 farms
Total Acres:	40,053 acres
Yield per Acre:	95.1 Bushels / acre (2.416 tonnes / acre)

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MMPP Variety Yield Data Browser

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

Summary

Raw Data

Search Summary

Your selected search:

Region(s) Selected: STE. ANNE

Crop(s) Selected: SOYBEANS

Variety(s) Selected: All

Period Selected: 2003 to 2013

This search returned 80 records from the MASC database, summarized below:

Sum of Farm Varieties:	293 farms
Total Acres:	38,190 acres
Yield per Acre:	32.0 Bushels / acre (0.872 tonnes / acre)

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Benchmarks for Better Farm Management

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MMPP Variety Yield Data Browser

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

powered by

Search Summary

Your selected search:

Region(s) Selected: STE. ANNE

Crop(s) Selected: SILAGE CORN

Variety(s) Selected: All

Period Selected: 2003 to 2013

This search returned 77 records from the MASC database, summarized below:

Sum of Farm Varieties:	117 farms
Total Acres:	9,147 acres
Yield per Acre:	12.758 Tons / acre (11.577 tonnes / acre) @ 35% dm content, Yield is 4.5 t/ac

[View Raw Data](#)



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.

Total minimum area required for manure application at two times crop removal, for operations outside of Hanover and La Broquerie	545 acres
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	1089 acres

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)

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 Herd Adjusted for Storage N Loss (lb/yr/herd)	P205 Excreted per Herd Per Year (lb/yr/herd)
Lactating Cows	Liquid Uncovered Earthen	30%	240	1400	1440	1420	365	1	59273	33055
Dry Cows	Manure Pack	20%	30	1440	1440	1440	365	1	4431	1816
Calves, 0-3 months	Manure Pack	20%	60	90	275	183	365	1	265	342
Calves, 4-13 months	Manure Pack	20%	60	275	810	543	365	1	2825	1406
Replacements, > 13 months	Manure Pack	20%	120	810	1250	1030	365	1	11378	4884
Mature Cows, plus associated livestock	Liquid Uncovered Earthen	30%	0	n/a	n/a	n/a	n/a	n/a	0	0

Last revised August 20, 2014

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	2.1	ton/ac	319	9245	38854	38854
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		bu/ac		-	-	-
Corn Grain	0.44	0.97	1.53	lb/bu	95.1	bu/ac	234	9791	21586	34048
Corn Silage	12.7	31.2	31.2	lb/ton	4.5	tons/ac	150	8573	21060	21060
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		bu/ac		-	-	-
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	32	bu/ac	80	2150	9907	13312
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu		bu/ac		-	-	-
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-
Sub Total							783	29759	91407	107274
Estimated Average Removal/Uptake (lb/ac)								38.0	116.7	137.0
Additional Acres										
Crop Planned on Additional Acres										
Total Suitable Acres Available for Manure							783			

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.

Last revised August 20, 2014

Species	Animal Category/Operation type	N (lb/year)	P205 (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	59273	93055
	Dry cow	4431	1616
	Calf, 0-3 months	265	342
	Calf, 4-13 months	2825	1406
	Replacements, >13 months	11378	4984
	Mature Cows, plus assoc livestock	0	0
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
Total		78172	41403

Note:

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

Nutrients Excreted	lbs
Nitrogen	78172
P2O5	41403
Crop Nutrient Use	
	lb/ac
Nitrogen Uptake	137.0
P2O5 Removal	38.0
Land Base Requirements	
	acres
Acres Available	783
Acres for Nitrogen Uptake	571
Acres for 2 x P2O5 Removal	545
Acres for 1 x P2O5 Removal	1089

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 1089 acres acres/hectares (one times crop removal from table above) may be required for the long term environmental sustainability of the operation.

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?

Hauling dead stock to a landfill designated by Manitoba Conservation.

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 Ste Anne
Development Plan by-law number	Zoning By-Law # 10-2010, Dev Plan # 13-2007
Land use designation of project site	Agriculture Zone
Livestock operation policies – quote supportive policy numbers	LOP 5.5.1a, 5.5.2, 5.5.6, 5.5.7
Other Development Plan policies – quote supportive policy numbers	5.1
Non-supportive Development Plan policies	5.5.10

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	320 acres	80 acres
Minimum site width	As determined by council	As determined by council
Minimum front yard	As determined by council	As determined by council
Minimum side and rear yard	As determined by council	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 type="checkbox"/> a. <input type="checkbox"/> b.	<input checked="" type="checkbox"/> c. <input checked="" type="checkbox"/> d.	Provide actual distance	Provide location or name of feature (e.g. Red River)
Residence/ dwelling		820 ft	865 ft	Nearest residence
<u>Designated area</u> (non-agricultural) ?		4364 ft	1.6 mi (8840')	Town of La Broquerie
Surface water		n/a		
Surface watercourse		1000 ft	3700 ft	From the Selne River
Crown land		n/a		
Wildlife Management Area		n/a		
Livestock operation		n/a		
Other significant features/land uses		n/a		

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:

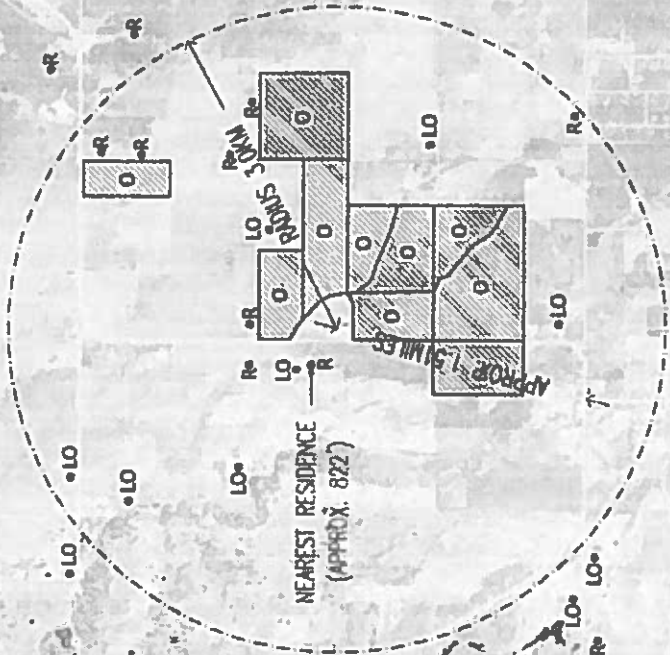
Feature	Structure	Minimum setback distance required	Provide actual distance (m)	Provide location or name of feature (e.g. Red River)
Surface watercourse, sinkhole, spring, or well	Manure storage facility	100 m	150 m	Circular concrete tank to 3 rd order drain
	Field storage	100 m	> 100 m	Location varies yearly
	Composting site	100 m	> 100 m	Location varies yearly
	Confined livestock area	100 m	n/a	
Property Line	Manure storage facility	100 m	125 m	To PR 302
	Composting site	100 m	> 100 m	Location varies yearly
	Confined livestock area	100 m	n/a	

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

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](#)). ?



Google



PROJECT NAME	LACTARIA HOLSTEINS W 1/2 7-78E	ISSUED AREA	N/A
SHEET TITLE	LAND USE & SPREAD FIELD MAP	DRAWN BY	R. FLORES SOUTH-MAN ENGINEERING
DATE DRAFT	JUNE 2014	CHECKED BY	N.T.S.
THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WAGNER, MANITOBA, CANADA.		SHEET NUMBER	
		SP-2	

South-Man Engineering

WEST 25-100 DUNDAS ROAD
WAGNER, MANITOBA
R2M 0K0

PH: 204-786-1000
FAX: 204-786-1001
WWW.SOUTHMANENGINEERING.COM

LEGEND:

- LO - LIVESTOCK OPERATIONS
- O - SPREAD FIELDS (OWNED)
- R - RESIDENCE
- - 3km NOTIFICATION AREA
- FOR THE PUBLIC CONDITIONAL USE HEARING

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		1			X						X
Tractor Trailer		3									X
Other – Specify											

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

Were rare species identified in the Conservation Data Centre Report?

Yes

No



		PROJECT NAME LACTARIA HOLSTEINS W ½ 7-7-8E	BUILDING AREA N/A
SHEET TITLE TRUCK HAUL ROUTE		DRAWN BY R. FLORES SOUTH-MAN ENGINEERING	DRAWING SCALE N.T.S.
DATE DRAWN JUNE 2014		SHEET NUMBER SP-3	
THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.			

UNIT 15-1599 DUCLOU ROAD
 WINNIPEG, MANITOBA
 R2Z 0Y3



Peter Grieger <peter.southmaneng@gmail.com>

Lactaria Holsteins

1 message

Friesen, Chris (CWS) <Chris.Friesen@gov.mb.ca>
To: "peter@southmaneng.com" <peter@southmaneng.com>

Fri, Jun 27, 2014 at 1:23 PM

Peter

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
Biodiversity Information Manager
Manitoba Conservation Data Centre
204-945-7747
chris.friesen@gov.mb.ca
<http://www.gov.mb.ca/conservation/cdc/>

-----Original Message-----

From:
Sent: June-25-14 8:18 PM
To: Friesen, Chris (CWS)
Subject: WWW Form Submission

Below is the result of your feedback form. It was submitted by WWW Information Request () on Wednesday, June 25, 2014 at 20:18:14

DocumentID: Manitoba_Conservation

Project Title: Lactaria Holsteins

Date Needed: 2014/07/03

Name: Peter Grieger

Company/Organization: South-Man Engineering

Address: Unit 15 - 1599 Dugald Road

City: Winnipeg

Province/State: Manitoba

Phone: (204) 668-9652

Fax: (204) 668-9204

Email: peter@southmaneng.com

Project Description: Project involves the expansion of an existing livestock operation (dairy) contained within housing and penning facilities as opposed to free range. Information received will be used to evaluate the impact of the operation on rare or endangered species.

Information Requested: Would like to identify the presence of any rare or endangered species which may be impacted by confined livestock within the area.

Format Requested: Microsoft Word Document preferred via email.

Location: Location W 1/2 7-7-8E in the RM of Ste. Anne.

action: Submit

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:

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: March 10, 2015

Signature: *St. A.* South-Man Engineering