

## 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:

007 Livestock Feeders

Operation location (project site): W 1/2 35-5-22 WPM

Rural Municipality (RM) of Cameron

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

W 1/2 - 35-5-22 WPM.

Manitoba Premises Identification Number: \_\_\_\_\_

Municipal tax roll number(s): \_\_\_\_\_

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

Location Map attached

Title of SW-35-5-22 WPM + NW-35-5-22 WPM  
Have been consolidated on the same title  
Certificate. This was completed July 26<sup>th</sup>, 2013.  
I do not have updated Roll #.

# R.M. OF CAMERON

MAP REVISED

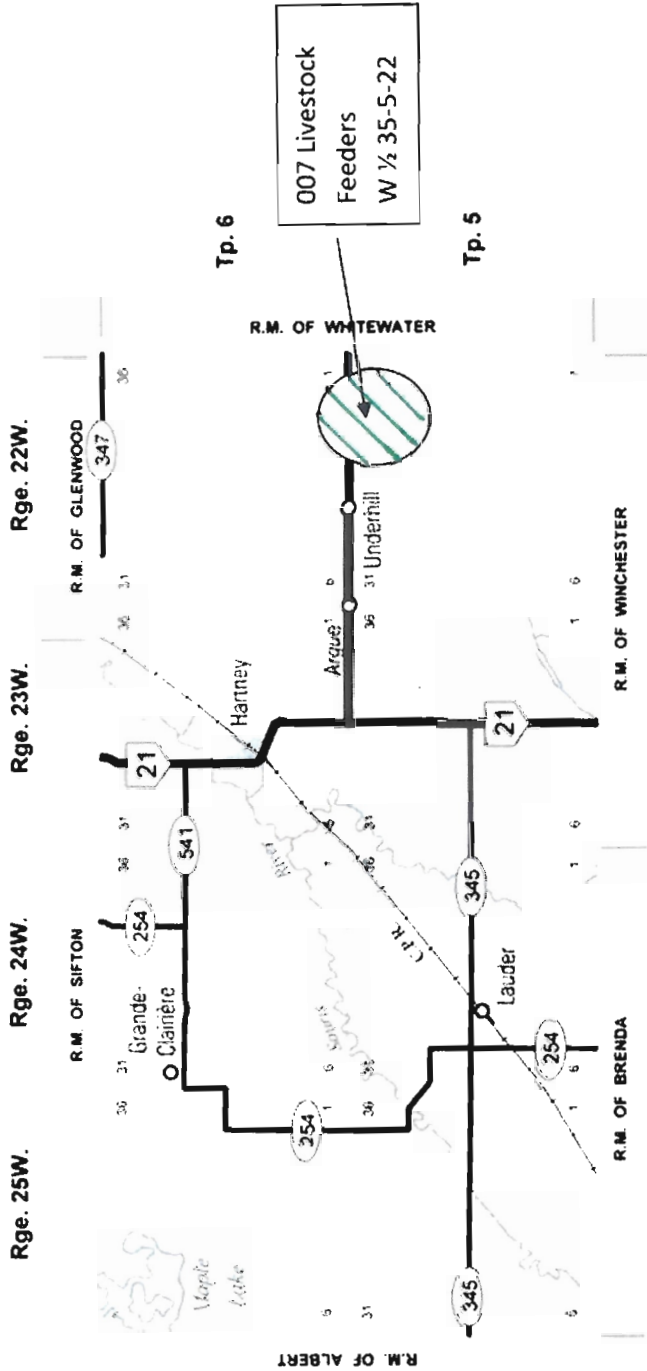


MANITOBA  
TRANSPORTATION AND GOVERNMENT SERVICES  
HIGHWAY PLANNING AND DESIGN BRANCH  
DRAFTING SECTION  
WINNIPEG  
NOVEMBER, 2001

SCALE IN KILOMETRES  
0 5

### LEGEND

- PROVINCIAL TRUNK HIGHWAYS (thick line with '26' in a circle)
- PROVINCIAL ROADS (thin line with '201' in a circle)
- ACCESS ROADS (dashed line)
- RAILWAYS (line with cross-ticks)



## 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			2	-	
	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	2,400	1,100	0.5	1,750.00	245
	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>1,750.00</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)



**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.

New pens are being constructed current  
buildings are staying as is

**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)
<u>BACKGROUNDER</u>	<u>2400 + 1100</u>	<u>1750</u>
	<u>3500 total</u>	

- 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

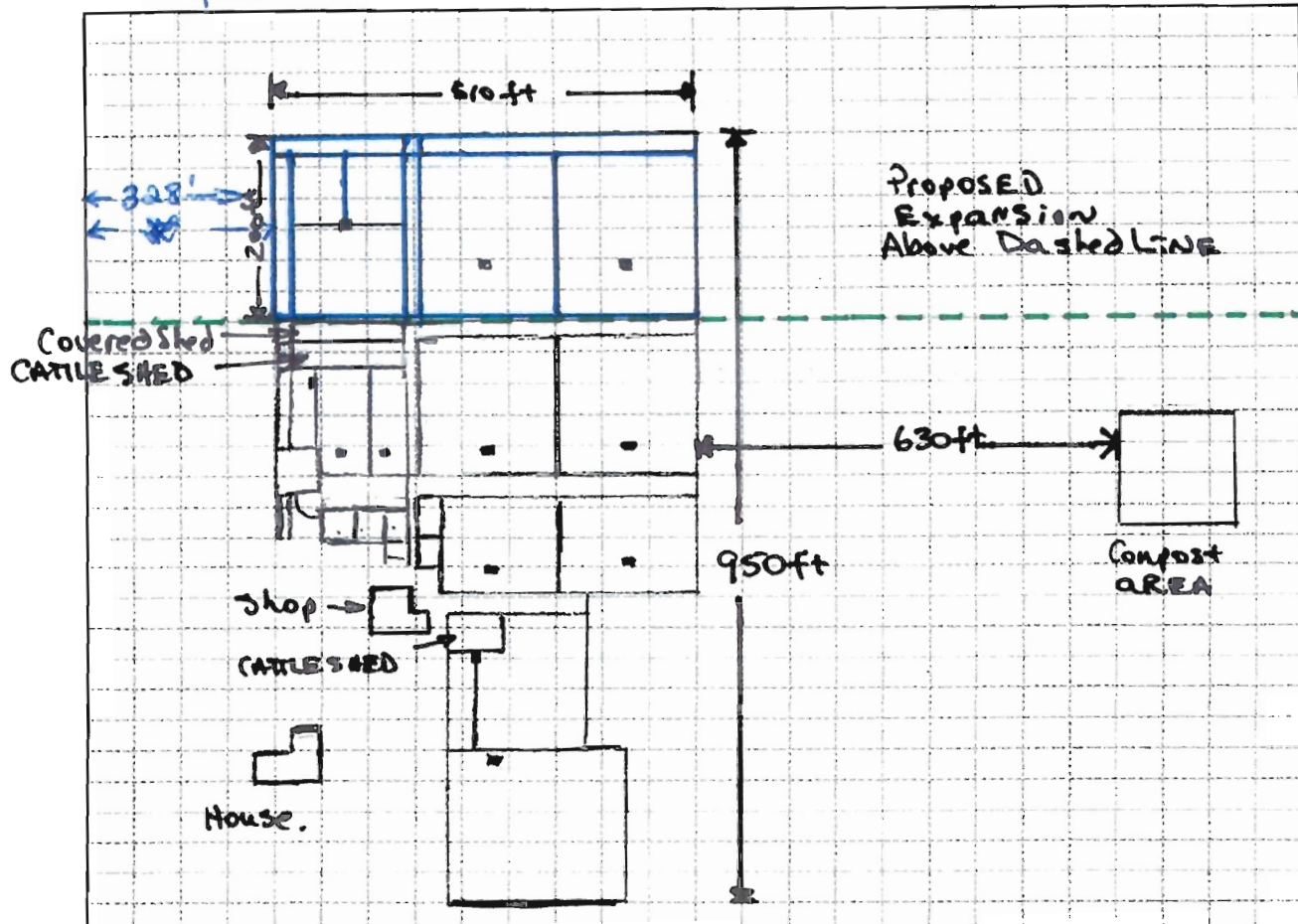
A permit under the Livestock Manure and Mortalities Management Regulation is not required for an indoor housing area or barn unless there is a manure storage facility within the building (an under barn storage capable of storing manure for 30 days or more).

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 SITE PLAN GUIDE

\* proposed expansion will adhere to the 328 ft setback of property line.



### Please indicate the following:

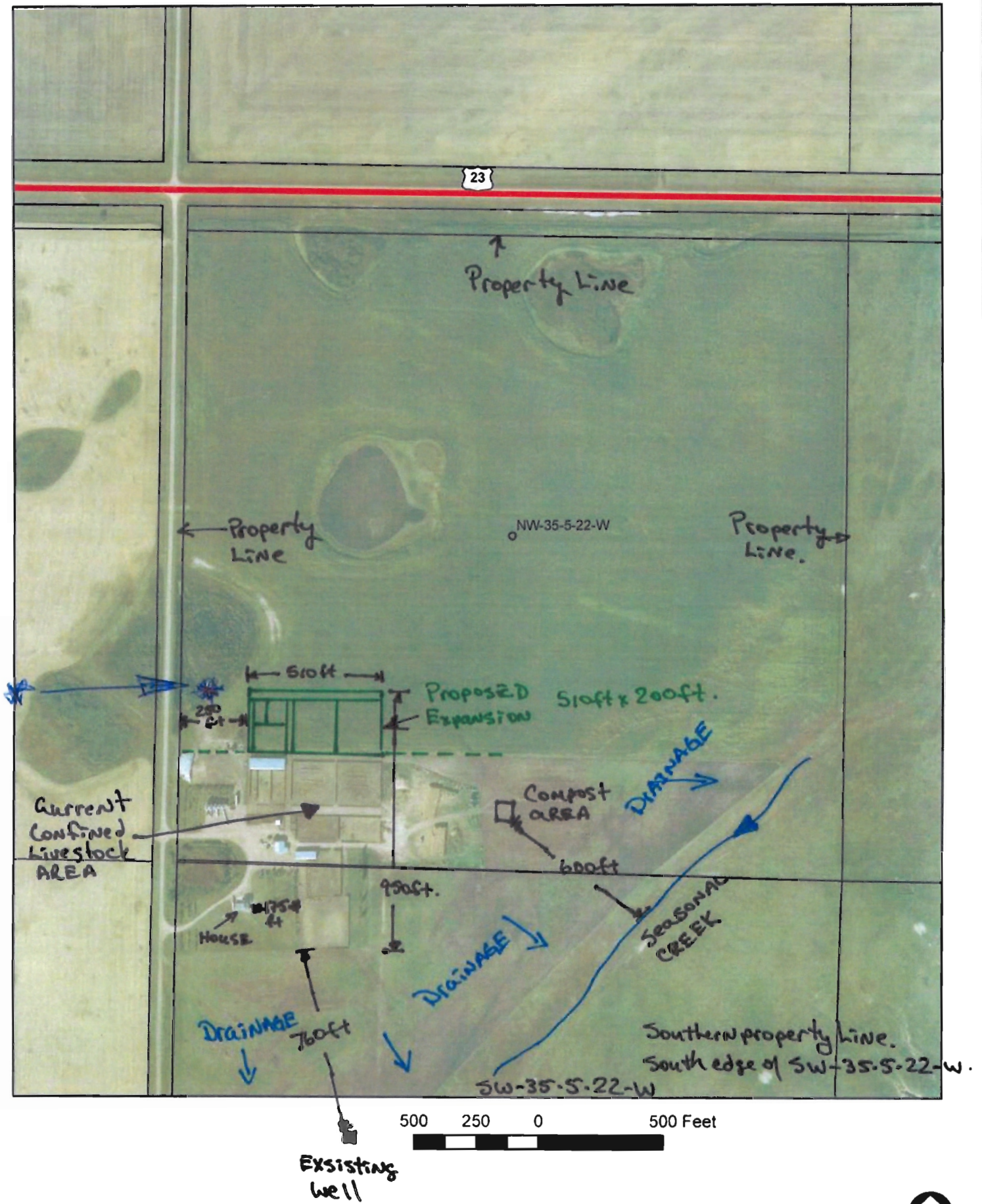
1. Approximate distances between existing and proposed animal confinement and manure storage facilities and dwellings, shelterbelts, manure storage, water source locations, drainage patterns, water courses, bedrock outcrops, sinkholes, gravel pits, quarries, and existing and abandoned well(s) or spring(s), property lines
2. Approximate distance between proposed dead animal disposal site and water courses
3. Property dimensions
4. Municipal or provincial roads and provincial trunk highways
5. Drainage patterns
6. Scale size (Suggested scale: one square = 50 feet/15 metres)

Please see Project Site Plan Example for assistance.

Please include an ortho (aerial) photo of the project site.



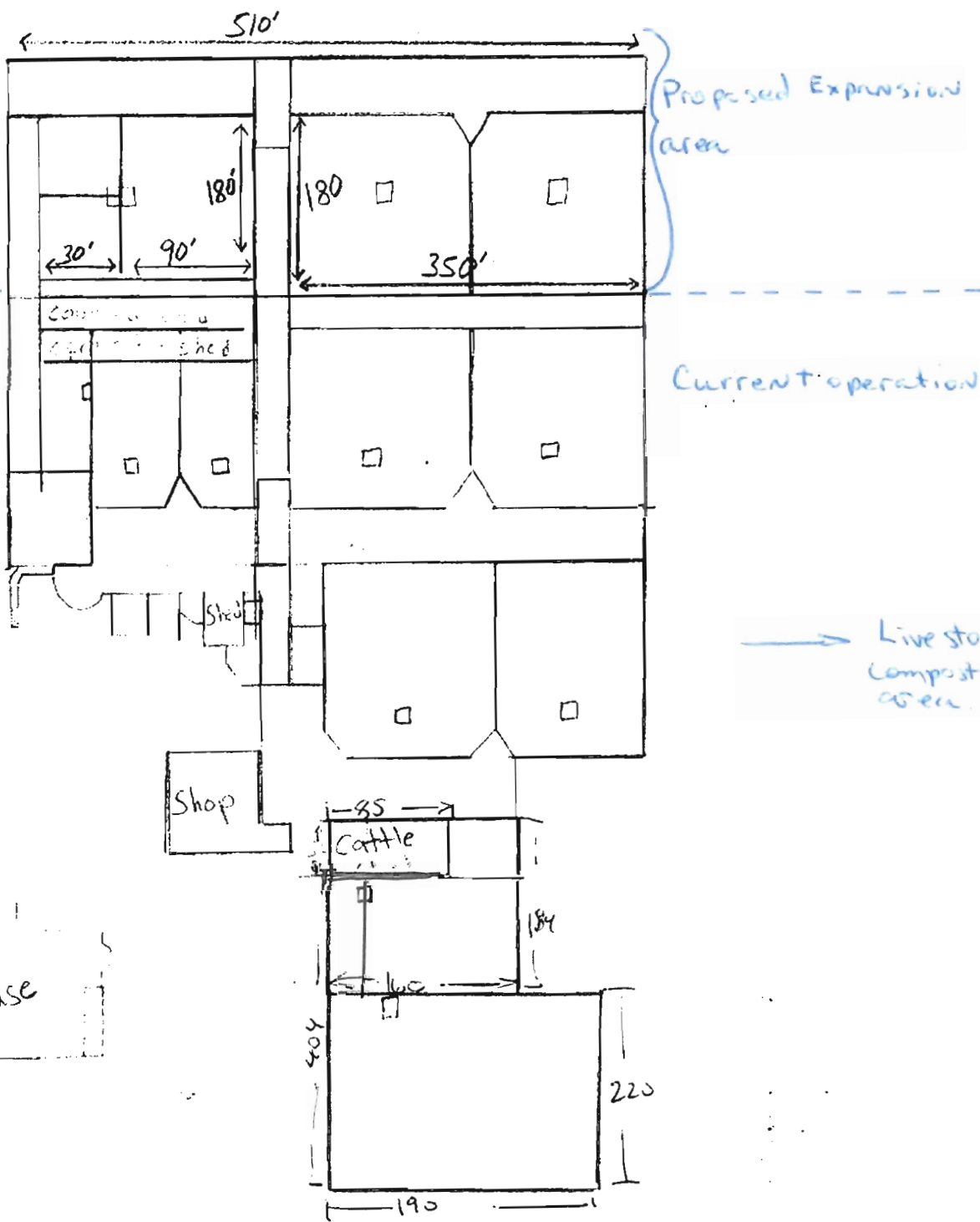
# RM of Cameron - NW 35-5-22WPM



\* Proposed expansion will be set back to 328ft off property line \*



8/20/17



N  
+  
E  
C

• Livestock composting area Approx 1000ft east of Shop.

• Distance of well from Shop is approx 1000ft South of Shop

□ Well

### 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 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 |
| <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.



2013 Jul 24  
WELL INFORMATION REPORT



Well PID: 75920

Location: SW35-5-22W  
UTMX:402141 UTM Y:5476574 XY Accuracy:2 VERY ACCURATE [<50M] [ORTHO MAPPED]  
UTMZ:454 Z Accuracy:4 FAIR - Shuttle at Centroid

Owner: C BOND  
Driller: Paddock Drilling Ltd.  
Well Name:  
Date Completed: 1993 Jun 29  
Well Use: PRODUCTION  
WATER USE: Domestic, Livestock  
Well Status: ACTIVE Aquifer: SAND AND GRAVEL

REMARKS:

WEST SOURIS RIVER CONSERVATION DISTRICT (WSRCD) 2001 WATER SAMPLING PROGRAM.

WELL LOG (Imperial units)

From	To(ft.)	Log
0.0	9	STICKY BROWN CLAY
9.0	11	SHALE GRAVEL, FINE
11.0	16	STICKY GREY CLAY
16.0	25	SHALE GRAVEL, FINE TO COARSE

WELL CONSTRUCTION

From	To(ft)	Const.Method	Inside Dia. (in)	Outside Dia. (in)	Slot Size(in)	Type	Material
0.0	13.0	casing	30.0			CORRUGATED	FIBERGLASS
13.0	25.0	perforations			0.040	SAW CUT	FIBERGLASS
0.0	25.0	gravel pack					WASHED S.

Top of Casing: 2.0 ft below ground

PUMPING TEST

Date : 1993 Jun 29 Pumping 249.9 Imp. gallons/minute  
Water level before test : 3.0 ft below ground  
Water level at end of test : 14.0 ft below ground  
Test duration: 1:00:00

### 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: \_\_\_\_\_

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

Fenced off

### 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: 31,500  imperial gallons or  litres

Maximum annual use: 11,497,500  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)
<b>Beef/Dairy/Bison</b>				
Feeder/heifer/steer (600 lb.)	3,500	5	9	31,500
Feeder (900 lb.)		7	12	-
Feeder (1250 lb.)		10	15	-
Cow/calf pair		12	15	-
Dry cow		10	12	-
Milking cow		25	30	-
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>31,500</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
31,500	11,497,500	IG
143,199	52,267,635	litres
0.143	52	cubic decametres (dam <sup>3</sup> )

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 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 type="checkbox"/>	<input type="checkbox"/>
Manure storage facility meets required setbacks	<input 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"/>
Abandoned wells have been properly sealed	<input type="checkbox"/>	<input type="checkbox"/>

Other:

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### 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): Central Ass. basin + Lower Souris River

Name of sub-watershed(s): Elgin Creek

Name of Integrated Watershed Management Plan for the proposed project site, if applicable: \_\_\_\_\_

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.)



Animal Type (A)	Animal Sub-Type (B)	References (C)	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> )(ft <sup>3</sup> GxH) (I)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gall) (J)
			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)	Yearly Manure Production (ft <sup>3</sup> /year/bird space)				
Dairy (milking cows <sup>4</sup> and associated livestock)	Free Stall	Table 6, pg 59 FPGs for Dairy 1995	Semi-Solid <sup>5</sup>	3.5					0.0	
			Solid	3.4						
			Liquid <sup>6</sup>	3.5					0.0	
			Semi-Solid <sup>7</sup>	3.6					0.0	
	Tie Stall									
	Loose Housing									
	Milking Parlour Manure and Washwater									
Beef	Beef cows including associated livestock	pg 117, FPGs for Hogs 1998	Solid	1.2		0.73		625,975.00		
	Backgrounder (200 day)									
	Summer pasture / replacement heifers									
	Feeder cattle									
Pigs	Sows - farrow to finish (234 - 254 lbs)	MAFRI website FPGs for Pigs 2007	Liquid	2.3					0.0	
	Sows - farrow to wean (up to 11 lbs)		Liquid	0.8					0.0	
	Sows - farrow to nursery (51 lbs)		Liquid	1					0.0	
	Weanlings - Nursery (11 - 51 lbs)		Liquid	0.1					0.0	
	Grower / Finisher (51 - 249 lbs)		Liquid	0.25					0.0	
Chickens	Type of Operation	Table 3, pg 85 FPGs for Poultry 2000	Yearly Manure Production							
			Broilers - floor <sup>8</sup>	1.23						
			Broiler breeder hens <sup>9</sup>	2.3						
			Broiler breeder pullets <sup>10</sup>	0.99						
			Roasters - floor <sup>11</sup>	1.16						
			Layers - cage <sup>12</sup>	2.33						0.0
			Layers - floor <sup>13</sup>	1.69						
			Layers - solid pack <sup>14</sup>	0.71						0.0
			Pullets - cage <sup>15</sup>	0.75						
			Pullets - floor <sup>16</sup>	0.75						
Turkeys	Type of Operation	Table 3, pg 85 FPGs for Poultry 2000	Broilers <sup>17</sup>	2.83						
			Heavy toms <sup>18</sup>	5.58						
			Heavy hens <sup>19</sup>	3.32						

Sizing 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:**

- <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 days.
- <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> Making 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> Open third floor floor, two-thirds slatted floor. Manure and litter removed from barn at 40% 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> Poling operations using litter (solid pack) must provide an estimate of yearly manure production.



liquid volume: \_\_\_\_\_ solid weight: \_\_\_\_\_

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

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: \_\_\_\_\_

Shelterbelt planting:  yes  no  existing shelterbelt

Other measures (specify): \_\_\_\_\_

### 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

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

**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	NE 34-5-22	Cameron	0	160	20	140	2T	29	23	Rural Policy Area	Agricultural
2	SE 34-5-22	Cameron	0	160	20	140	2T	18	19	Rural Policy Area	Agricultural
3	S 35-5-22	Cameron	0	320	80	240	5M	10	21	Rural Policy Area	Agricultural
4	NE 35-5-22	Cameron	0	160	60	100	5W	18	23	Rural Policy Area	Agricultural
5	NW 35-5-22	Cameron	0	160	40	120	2T	153	17	Rural Policy Area	Agricultural
6	N 25-5-22	Cameron	0	320	20	300	3T	33	9	Rural Policy Area	Agricultural
7	W 22-5-22	Cameron	L	320	30	290	3T	30	12	Rural Policy Area	Agricultural
8	E 5-5-22	Cameron	A	320	60	260	3T	10	8	Rural Policy Area	Agricultural
9	NE 8-5-22	Cameron	A	160	20	140	3T	9	7	Rural Policy Area	Agricultural
10	N 17-5-22	Cameron	A	320	60	260	3T	10	8	Rural Policy Area	Agricultural
11	SW 18-5-22	Cameron	A	160	10	150	3T	18	9	Rural Policy Area	Agricultural
12											
13											
14											
15											
16											
17											
18											
19											
20											
<b>Total Net Acreage for Manure Application:</b>						2140					

- 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. 8m, 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.





# A & L Canada Laboratories Inc.

Report Number: C13284-10607  
Account Number: 04077

2136 Jetstream Road, London, Ontario, N5V 3P5  
Telephone: (519) 457-2575 Fax: (519) 457-2664

To: STEVE BEAUMONT  
406 MCDIARMID DR  
BRANDON, MB R7B 2H4

For: CLIVE BOND

04077-N67

Grower Code: 04077005  
Farm: 007 LIVESTOCK FEEDERS  
Field: BONDS

204-725-2814

Report Date: 2013-10-16 Print Date: 2013-10-19

## SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descript:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm	Potassium Bray-P1	Magnesium Mg ppm	Calcium Ca ppm	pH	pH Buffer	CEC meq/100g	% K	% Mg	% Ca	% H	% Na
CBSE34-A	SE 34-5-22	6	35929	3.3	19 M	29 M	415 M	5670 VH	7.8	7.8	32.6	2.1	10.6	87.1	0.3	
CBSE34-B	SE 34-5-22	24	35930	1.7	93 L	93 L	1250 H	7200 H	8.0	8.0	46.8	0.5	22.3	77.0	0.5	

Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc ppm Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al*	K/Mg Ratio	ENR	Chloride Cl ppm	Sodium Na ppm
CBSE34-A	12 VL 22	7 L 13							2 L	46	0.0 G	0.20	45		26 VL
CBSE34-B	52 VL 281	1 VL 5										0.02	29		55 L

OE VL = VERY LOW L = LOW M = MEDIUM H = HIGH VH = VERY HIGH \* G = GOOD, M = MARGINAL, MT = MODERATE PHYTO-TOXIC, T = PHYTO-TOXIC, ST = SEVERE PHYTO-TOXIC

**SOIL FERTILITY GUIDELINES (lbs/ac)**

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
CBSE34-A	Corn Silage Western Corn Silage Western	12 tons	0.0	140	15	10	15	0	35						

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.



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To: STEVE BEAUMONT  
406 MCDIARMID DR  
BRANDON, MB R7B 2H4

For: CLIVE BOND

Grower Code: 04077005

04077-N67

Farm: 007 LIVESTOCK FEEDERS

Field: BONDS

204-725-2814

Report Date: 2013-10-16 Print Date: 2013-10-19

## SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descpt:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm	Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	pH Buffer	CEC meq/100g	% K	% Mg	% Ca	% H	% Na
CBNE34-A	NE 34-5-22	6	35927	4.0	23 M	29 M	325 VH	440 M	4170 H	7.6	7.7	25.4	3.3	14.4	82.0		0.5
CBNE34-B	NE 34-5-22	24	35928	2.5			113 M	685 H	3960 H			26.0	1.1	22.0	76.3		0.9

Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al	K/Mg Ratio	ENR	Chloride Cl ppm	Sodium Na ppm
CBNE34-A	12 VL	7 L	13						2 L	93	0.0 G	0.23	52		30 L
CBNE34-B	40 VL	3 VL	16									0.05	37		53 M

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### SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
CBNE34-A	Corn Silage Western	Corn Silage Western	12 tons	0.0	129	15	10	5	0	35					

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To: STEVE BEAUMONT  
406 MCDIARMID DR  
BRANDON, MB R7B 2H4

For: CLIVE BOND

Grower Code: 04077005

Farm: 007 LIVESTOCK FEEDERS

Field: BONDS

04077-N67

204-725-2814

Report Date: 2013-10-16 Print Date: 2013-10-19

## SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descript:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	CEC	Percent Base Saturations % K % Mg % Ca % H % Na
CBW22-A	W 22-5-22	6	35923	4.1	17 VL	231 H	470 H	3080 H	7.3	19.9	3.0 19.6 77.2 0.4
CBW22-B	W 22-5-22	18	35924	2.2	107 M	107 M	645 H	4730 H	7.9	29.4	0.9 18.3 80.6 0.4

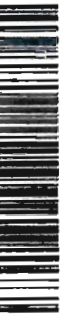
Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Chloride Cl ppm	Sodium Na ppm
CBW22-A	9 VL 16	9 L 16							1 VL	277		20 L
CBW22-B	11 VL 40	4 VL 14										28 L

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### SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P205	K20	Mg	Zn	Mn	Fe	Cu	B
CBW22-A	Barley (Feed)	Canola	40 bu	0.0	99	35	20	0					

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To: STEVE BEAUMONT  
406 MCDIARMID DR  
BRANDON, MB R7B 2H4

For: CLIVE BOND

Grower Code: 04077005

04077-N67

Farm: 007 LIVESTOCK FEEDERS

Field: BONDS

204-725-2814

Report Date: 2013-10-16 Print Date: 2013-10-19

## SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descpt:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH Buffer	pH	CEC meq/100g	% K	% Mg	% Ca	% H	% Na
CBNE35-A	NE 35-5-22	6	35917	6.5	23 M	602 VH	1055 VH	4150 M	7.6	7.6	31.5	4.9	27.9	65.9		1.7
CBNE35-B	NE 35-5-22	24	35918	3.6	44 M	173 M	985 VH	4730 M	7.7	7.7	32.7	1.4	25.1	72.4		1.4

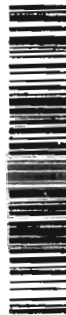
Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al *	K/Mg Ratio	ENR	Chloride Cl ppm	Sodium Na ppm
CBNE35-A	26 VL	4 VL	7						4 G	51	0.0 G	0.18	78		121 H
CBNE35-B	30 VL	2 VL	11									0.06	48		108 H

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### SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
CBNE35-A	Pasture	Pasture	3 tons	0.0	72	25	0	0	0	45					

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Report Number: C13284-10607  
Account Number: 04077

To: STEVE BEAUMONT  
406 MCDIARMID DR  
BRANDON, MB R7B 2H4

For: CLIVE BOND

04077-N67

Grower Code: 04077005  
Farm: 007 LIVESTOCK FEEDERS  
Field: BONDS

204-725-2814

Report Date: 2013-10-16 Print Date: 2013-10-19

Page: 1

## SOIL TEST REPORT

Sample Number	Legal Land Descript:	Depth	Lab Number	Organic Matter	Phosphorus - P Bicarb	Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	pH Buffer	CEC meq/100g	Percent Base % K	Percent Base % Mg	Percent Base % Ca	Saturations % H	Saturations % Na
CBNW35-A	NW 35-5-22	6	35925	4.0	17L	27L	224H	495H	3350M	7.2	7.8	22.6	2.5	18.3	74.3	4.5	0.4
CBNW35-B	NW 35-5-22	24	35926	2.8			111L	745H	6470H			39.0	0.7	15.9	83.0		0.6

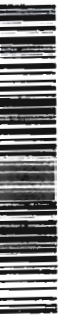
Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %Al	Aluminum Al ppm	Saturation %AI	K/Mg Ratio	ENR	Chloride Cl ppm	Sodium Na ppm
CBNW35-A	9VL 16	16M 29							2L	190	0.0G	0.14	52		19L
CBNW35-B	23VL 124	23H 124										0.04	40		52L

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### SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P205	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
CBNW35-A	Wheat HR Winter	Corn Silage Western	12 tons	0.0	86	15	10	0	0	40					

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# A & L Canada Laboratories Inc.

Report Number: C13284-10607  
Account Number: 04077

2136 Jetstream Road, London, Ontario, N5V 3P5  
Telephone: (519) 457-2575 Fax: (519) 457-2664

To: STEVE BEAUMONT  
406 MCDIARMID DR  
BRANDON, MB R7B 2H4

For: CLIVE BOND

Grower Code: 04077005

Farm: 007 LIVESTOCK FEEDERS

Field: BONDS

04077-N67

204-725-2814

Report Date: 2013-10-16 Print Date: 2013-10-19

## SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descript:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	pH Buffer	CEC meq/100g	Percent Base Saturation % K % Mg % Ca % H % Na
CB26-A	26-5-22	6	35921	3.8	9 VL	16 VL	555 H	3660 M	7.3	7.3	24.7	2.0 18.7 74.1 5.4
CB26-B	26-5-22	24	35922	2.3	108 L	193 H	690 M	6460 H	7.8	7.8	38.8	0.7 14.8 83.3 1.4

Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %p	Aluminum Al ppm	Saturation %Al *	K/Mg Ratio	ENR	Chloride Cl ppm	Sodium Na ppm
CB26-A	215 VH 387	12 M 22							1 VL	147	0.0 G	0.11	50		309 VH
CB26-B	98 VH 529	2 VL 11										0.05	35		123 H

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### SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P205	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
CB26-A	Corn Silage	Western Wheat	Red Spring	50 bu	0.0	30	15	0	0	0	0				

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 406 MCDIARMID DR  
 BRANDON, MB R7B 2H4

For: CLIVE BOND

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Farm: 007 LIVESTOCK FEEDERS

Field: BONDS

04077-N67

204-725-2814

Report Date: 2013-10-16 Print Date: 2013-10-19

## SOIL TEST REPORT

Page: 1

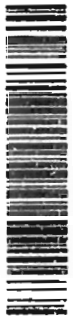
Sample Number	Legal Land Descript:	Depth	Lab Number	Organic Matter	Phosphorus - P Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	Buffer meq/100g	CEC	Percent Base Saturations			
												% K	% Mg	% Ca	% H
CBS35-A	S 35-5-22	6	35919	5.8	21 M	467 VH	760 H	3690 M	7.4	26.8	26.8	4.5	23.6	68.8	3.4
CBS35-B	S 35-5-22	24	35920	2.0	117 L	1390 H	7200 M		7.7	50.9	50.9	0.6	22.8	70.8	6.2

Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al*	K/Mg Ratio	ENR	Chloride	
														Cl	ppm
CBS35-A	128 VH	230	3 VL	5					3 L	85	0.0 G	0.19	71	212 VH	
CBS35-B	534 VH	2884	1 VL	5								0.03	32	721 VH	

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Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	SOIL FERTILITY GUIDELINES (lbs/ac)											
					N	P205	K20	Mg	Ca	S	Zn	Mn	Fe	Cu	B	
CBS35-A	Pasture	Pasture	3 tons	0.0	79	25	0	0	0	0	0					

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# A & L Canada Laboratories Inc.

Report Number: C13226-10022  
Account Number: 04077

2136 Jetstream Road, London, Ontario, N5V 3P5  
Telephone: (519) 457-2575 Fax: (519) 457-2664

To: STEVE BEAUMONT  
406 MCDIARMID DR  
BRANDON, MB R7B 2H4

For: CLIVE BOND

Grower Code: 04077005

Farm: 007 LIVESTOCK FEEDERS

Field: BONDS

04077-N54

204-725-2814

Report Date: 2013-08-16 Print Date: 2013-08-21

## SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descript:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm	Potassium Bray-P1	Magnesium Mg ppm	Calcium Ca ppm	pH	pH Buffer	CEC meq/100g	Percent Base % K	Saturations % Mg	% Ca	% H	% Na
CBE5	E 5-5-22	6	41867	4.0	8 VL	14 VL	365 M	4200 VH	7.8	24.4	24.4	1.4	12.5	86.0	0.3	
CBE5	E 5-5-22	24	41868	2.6		67 L	595 H	4770 H	8.1	29.0	29.0	0.6	17.1	82.1	0.4	

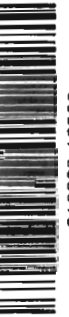
Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al	K/Mg Ratio	ENR	Chloride Cl ppm	Sodium Na ppm
CBE5	8 VL 14	3 VL 5							1 VL	231	0.0 G	0.11	52		19 VL
CBE5	7 VL 38	1 VL 5										0.04	38		29 L

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### SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P205	K20	Mg	Ca	S	Zn	Mn	Fe	Cu	B

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Account Number: 04077

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To: STEVE BEAUMONT  
406 MCDIARMID DR  
BRANDON, MB R7B 2H4

For: CLIVE BOND

Grower Code: 04077005

Farm: 007 LIVESTOCK FEEDERS  
Field: BONDS

04077-N54

204-725-2814

Report Date: 2013-08-16 Print Date: 2013-08-21

## SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descript:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm	Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	pH Buffer	CEC meq/100g	% K	% Mg	% Ca	% H	% Na
CBNE8	NE 8-5-22	6	41865	2.8	7L	13L	133 M	500 M	5780 VH	7.8	7.8	33.4	1.0	12.5	86.5	0.1	0.1
CBNE8	NE 8-5-22	24	41866	2.4		81L	81L	500 H	4320 H	8.0	8.0	26.0	0.8	16.1	83.2	0.2	0.2

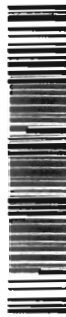
Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc ppm Zn	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %p	Aluminum Al ppm	Saturation %Al*	K/Mg Ratio	ENR	Chloride Cl ppm	Sodium Na ppm
CBNE8	8 VL 14	2 VL 4							1 VL	65	0.0 G	0.08	40		9 VL
CBNE8	5 VL 27	1 VL 5										0.05	36		9 VL

OE VL = VERY LOW L = LOW M = MEDIUM H = HIGH VH = VERY HIGH \* G = GOOD, M = MARGINAL, MT = MODERATE PHYTO-TOXIC, T = PHYTO-TOXIC, ST = SEVERE PHYTO-TOXIC

### SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P205	K20	Mg	Ca	S	Zn	Mn	Fe	Cu	B

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.



This report is not an original A&L Canada report. This report was printed from the A&L Data-Web, some data may have been altered by the end user. A&L Canada is a laboratory accredited by Standards Council of Canada / CAEAL and OMAF





# A & L Canada Laboratories Inc.

Report Number: C13226-10022  
Account Number: 04077

2136 Jetstream Road, London, Ontario, N5V 3P5  
Telephone: (519) 457-2575 Fax: (519) 457-2664

To: STEVE BEAUMONT  
406 MCDIARMID DR  
BRANDON, MB R7B 2H4

For: CLIVE BOND

04077-N54

Grower Code: 04077005  
Farm: 007 LIVESTOCK FEEDERS  
Field: BONDS

204-725-2814

Report Date: 2013-08-16 Print Date: 2013-08-21

## SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descript:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	CEC meq/100g	Percent Base Saturations		
											% K	% Mg	% Ca
CBN17	N 17-5-22	6	41861	3.5	8 VL	11 VL	350 M	4130 VH	7.6	24.1	2.0	12.1	85.8
CBN17	N 17-5-22	24	41862	2.4		71 L	405 H	2400 H	8.0	15.6	1.2	21.7	77.1

Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al*	K/Mg Ratio	ENR	Chloride	
														Cl ppm	Na ppm
CBN17	19 VL 34	3 VL 5							1 VL	279	0.0 G	0.17	47	15 VL	
CBN17	5 VL 27	1 VL 5										0.06	36	10 VL	

OE VL = VERY LOW L = LOW M = MEDIUM H = HIGH VH = VERY HIGH \* G = GOOD, M = MARGINAL, MT = MODERATE PHYTO-TOXIC, T = PHYTO-TOXIC, ST = SEVERE PHYTO-TOXIC

### SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P205	K20	Mg	Ca	S	Zn	Mn	Fe	Cu	B

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.



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To: STEVE BEAUMONT  
406 MCDIARMID DR  
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For: CLIVE BOND

Grower Code: 04077005

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Farm: 007 LIVESTOCK FEEDERS

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204-725-2814

Report Date: 2013-08-16 Print Date: 2013-08-21

## SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descript:	Depth	Lab Number	Organic Matter	Phosphorus - P Bicarb	Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	Buffer	CEC meq/100g	% K	% Mg	% Ca	% H	% Na
CBSW16	SW 16-5-22	6	41859	3.7	9 L	16 L	129 M	520 H	4000 H	7.6		25.1	1.3	17.3	79.7		1.9
CBSW16	SW 16-5-22	24	41860	2.2			76 L	1115 H	7120 H	7.9		46.6	0.4	20.0	76.5		3.4

OE VL = VERY LOW L = LOW M = MEDIUM H = HIGH VH = VERY HIGH \* G = GOOD, M = MARGINAL, MT = MODERATE PHYTO-TOXIC, T = PHYTO-TOXIC, ST = SEVERE PHYTO-TOXIC

### SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal Tons/Acre	Lime Tons/Acre	N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
CBSW16															
CBSW16															

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.



This report is not an original A&L Canada report. This report was printed from the A&L Data-Web, some data may have been altered by the end user.  
A&L Canada is a laboratory accredited by Standards Council of Canada / CAEAL and OMAF

Use the Manure Application Field Characteristics Table to determine the following:

**Total suitable area available for manure application**

21 34 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.

<p><b>Total minimum area required for manure application at two times crop removal, for operations outside of Hanover and La Broquerie</b></p>	<p>2134 Acres</p>
<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>	<p>3163 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)

### 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 3163 acres/hectares (one times crop removal from table above) may be required for the long term environmental sustainability of the operation.

*I have included also the nitrogen # being 2134 Acres  
one time requirement + 1582 Acres being the 2x P<sub>2</sub>O<sub>5</sub> land  
requirement*



## Mass Mortalities Plan 007 Livestock Feeders

In the case of Mass mortalities that exceed the capacity of the composting area, 007 Livestock Feeders will without delay contact a Provincial Environment officer (Peter Crocker; 204-761-7965 cell 204-726-6565 office) and provide the officer with any information about the situation that the officer requests.

Following contact of the Provincial Environment Officer, 007 Livestock Feeders will dispose of the mortalities according to the director's or environment officer's instructions.

Rothsay 555-607 Dawson Rd. N Winnipeg, MB. R2J 0T2

Ph. 204-233-7347

**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?

\_\_\_\_\_ CALL to Environment officer  
 \_\_\_\_\_ followed by Call to Rothsay Rendering.  
 \_\_\_\_\_  
 \_\_\_\_\_

**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	DENNIS County
Development Plan by-law number	12
Land use designation of project site	Rural Policy Area
Livestock operation policies – quote supportive policy numbers	3.3.3.1 3.3.3.7 3.3.3.6
Other Development Plan policies – quote supportive policy numbers	Part 2 + 3.
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?

AG - General Agricultural Zone	Project site dimensions	Minimum zoning bylaw site requirements
Minimum site area	320 AC	80 AC
Minimum site width	5280 ft	1000 ft
Minimum front yard	250 ft	125 ft
Minimum side and rear yard	500 - 500	25ft + 25ft.

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 checked="" 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	3446	3446	4500 ft	Dwelling Located @ NW-36-5-22
Designated area (non-agricultural)	13,779 ft	13,779	17,160 ft	ELGIN MB
Surface water	328 ft	328	625 ft.	Seasonal Creek South of Feedlot
Surface watercourse	328	328	625 ft	Seasonal Creek South of Feedlot
Crown land	N/A	N/A	> 5 miles	NO Crown land
Wildlife Management Area	N/A	N/A	> 5 miles	No Wild Life Mgmt AREA
Livestock operation	N/A	N/A	> 5 miles	
Other significant features/land uses	N/A	N/A	> 5 miles	

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	N/A #1	Seasonal Creek South of Feedlot
	Field storage	100 m	>100M	Seasonal Creek South of Feedlot
	Composting site	100 m	200M	Seasonal Creek South of Feedlot
	Confined livestock area	100 m	200M	Seasonal Creek South of Feedlot
Property Line	Manure storage facility	100 m	N/A	There is no Manure Storage Facility.
	Composting site	100 m	350M	Front Property Line
	Confined livestock area	100 m	<100M #2	Front Property Line.

\* Proposed expansion will be set back to 100 m of property line \*  
 If any setback distances have not been met, please provide explanation below:

1. #1 N/A There is NO Manure storage facility so there for no actual distance.

2. #2 Actual distance is between 250-300 ft. Hard to be exact because property line is not readily defined.

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	4.8	4.8	✓		✓			✓		✓
Tractor Trailer	1.1	1.1	✓		✓			✓		✓
Other – Specify Fuel truck TRACTOR	1.9	1.9	✓		✓			✓		✓

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





Steve Beaumont &lt;stevebea@gmail.com&gt;

**Livestock Expansion**

1 message

**Friesen, Chris (CWS)** <Chris.Friesen@gov.mb.ca>  
To: "stevebea@gmail.com" <stevebea@gmail.com>

Wed, Jul 31, 2013 at 11:11 AM

Steve

Thank you for your information request. I completed a search of the MB Conservation Data Centre rare species database which resulted in the following occurrences:

Chestnut-collared Longspur (*Calcarius ornatus*), S1S2, ESA: Endangered, SARA: Threatened, COSEWIC: Threatened

Ferruginous Hawk (*Buteo regalis*), S1S2, ESA: Endangered, SARA: Threatened, COSEWIC: Threatened

Further information on this ranking system can be found on our website at <http://www.gov.mb.ca/conservation/cdc/consranks.html> and these designations can be found at <http://web2.gov.mb.ca/laws/statutes/ccsm/e111e.php>, <http://www.cosewic.gc.ca/> and [http://www.sararegistry.gc.ca/default\\_e.cfm](http://www.sararegistry.gc.ca/default_e.cfm).

The information provided in this letter is based on existing data known to the Manitoba CDC of the Wildlife and Ecosystem Protection Branch at the time of the request. These data are dependent on the research and observations of our scientists and reflects our current state of knowledge. An absence of data does not confirm the absence of any rare or endangered species. Many areas of the province have never been thoroughly surveyed, however, and the absence of data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present. The information should, therefore, not be regarded as a final statement on the occurrence of any species of concern nor should it substitute for on-site surveys for species or environmental assessments. Also, because our 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 passes before it is utilised.

Third party requests for products wholly or partially derived from the Biotics database 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 data from our database, as the Manitoba Conservation Data Centre; Wildlife and Ecosystem Protection Branch, Manitoba Conservation.

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 contact me directly at (204) 945-7747.

Chris Friesen  
Biodiversity Information Manager  
Manitoba Conservation Data Centre  
204-945-7747  
[chris.friesen@gov.mb.ca](mailto:chris.friesen@gov.mb.ca)

02/08/2013

# R.M. OF CAMERON

MAP REVISED.

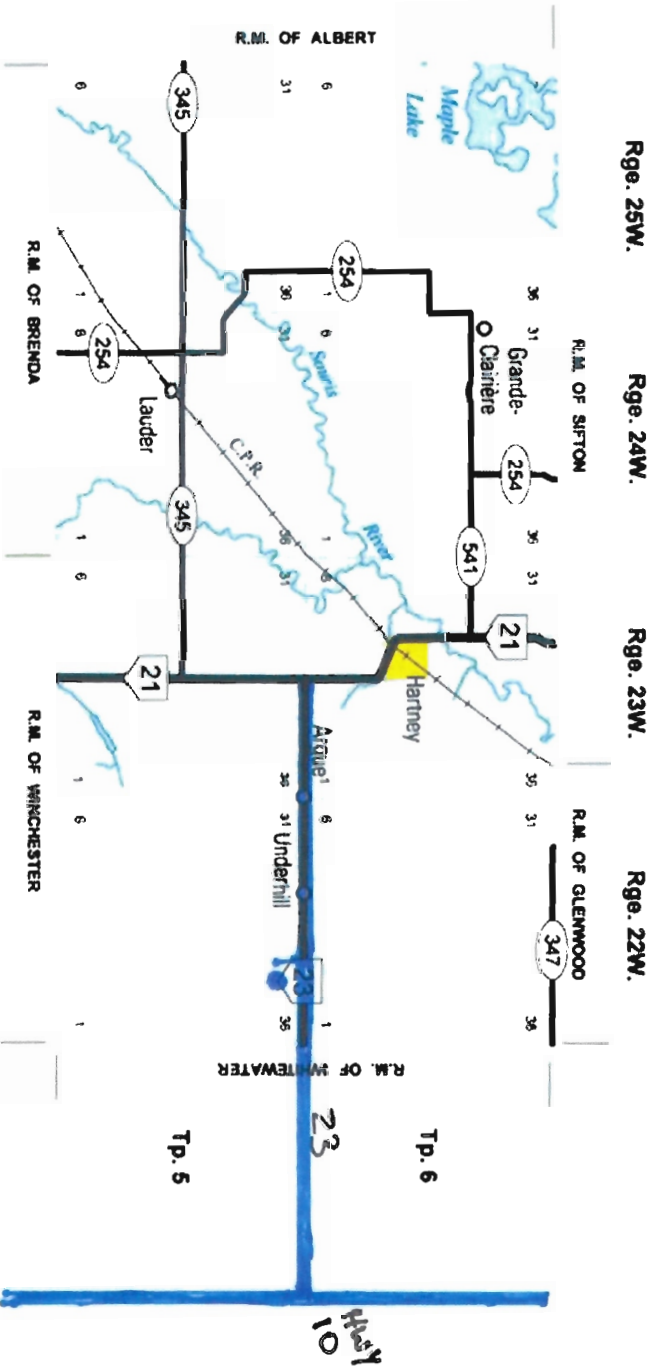


SCALE IN KILOMETRES  
0 5

MANITOBA  
TRANSPORTATION AND GOVERNMENT SERVICES  
HIGHWAY PLANNING AND DESIGN BRANCH  
DRAFTING SECTION  
WINNIPEG  
NOVEMBER 2001

### LEGEND

- PROVINCIAL TRUNK HIGHWAYS
- PROVINCIAL ROADS
- ACCESS ROADS
- RAILWAYS



#### 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: Feb. 28, 2019

Signature: 

**SITE ASSESSMENT: Contact Information and  
Privacy and Publication Notice**

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

**Operator Contact Information**

Name of Operation: 007 Livestock Feeders

Corporation Name (if applicable): \_\_\_\_\_

Contact Name: Anthony Beard

Mailing Address: Box 84

City/Town: Elgin Province: MB Postal Code: R0K 0T0

Phone No: 204-483- Fax No: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Design Consultant/Advisor Contact Information**

Company Name: Steve Beaumont

Contact Person: Steve Beaumont

Mailing Address: 406 McDiarmid Dr.

City/Town: Brandon Province: MB Postal Code: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_ E-mail: Steve.bea@gmail.com

204-573-0455 204-725-2814

√ Please indicate the primary project contact above

**Privacy and Publication Notice**

Why the information is being collected ("purposes")

The Technical Review Committee ("TRC") requires the information (including any personal information) contained in this form, in your Site Assessment and in your Supporting Documents in order to review your submission and to prepare its report.

Our legal authority to collect the information

The authority to collect this information is found in *The Planning Act*, the *Technical Review Committee Regulation* and *The Freedom of Information and Protection of Privacy Act*.

Information collected will not be used or disclosed for other purposes unless you consent or we are authorized to do so by *The Planning Act*, the *Technical Review Committee Regulation* or *The Freedom of Information and Protection of Privacy Act*.



What information will be published and where it will be published

**As required by subsection 5(1) of the *Technical Review Committee Regulation* in order to enable public comment on your application, your complete Site Assessment and Supporting Documents** (Location Map, Animal Unit Calculation Table, Water Requirement Calculation Table, Manure Storage Calculation Table, Existing and Proposed Manure Storage Facility Dimension Tables (if applicable), Manure Application Field Characteristics Table, application field soil sample results, Land Base Calculator, Project Site Plan, Land Use & Spread Field Map, Truck Haul Routes and Access Points Map):

- **will be posted on a public website;** and
- sent to the applicable planning district office or municipal office where any interested member of the public may view it.

Please note: This "Site Assessment: Contact Information and Privacy and Publication Notice" form will not be posted or sent to the applicable planning district or municipality.

If you have questions about the collection, use, disclosure or publication of the information please contact the Technical Review Coordination Unit at Manitoba Local Government, phone number: (204) 945-8353.

Verification of Accuracy of Information

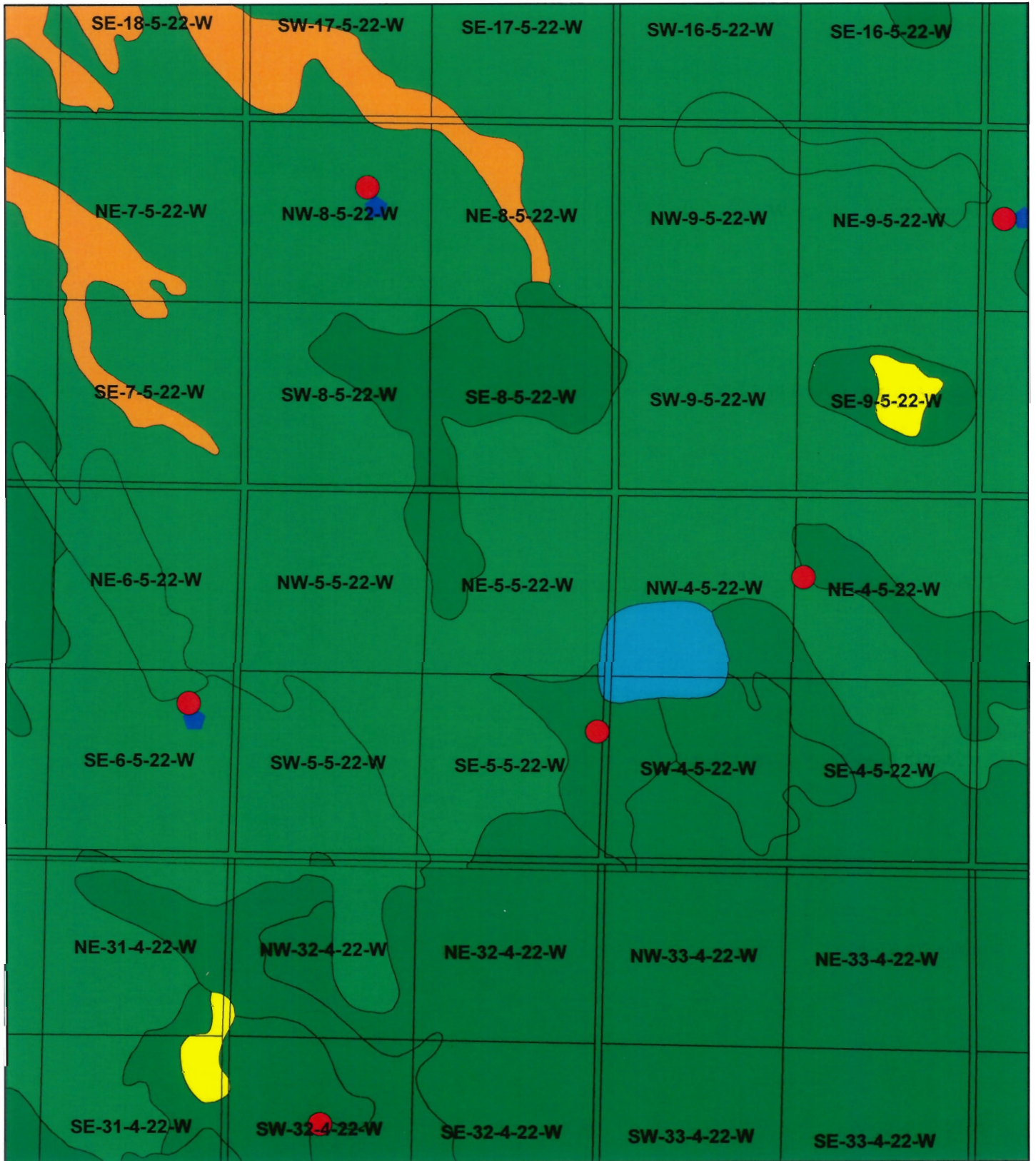
I do hereby verify that the information contained in the attached Site Assessment and Supporting Documents is accurate and complete to my knowledge.

Date: March 21 / 14

Signature: 

<b>For Office Use Only</b>
Date of Receipt of completed Site Assessment including all Supporting Documents: _____
Confirmation of Receipt Sent: _____
Please forward completed Site Assessment and Supporting Documents to: Technical Review Coordination Unit Room 604 – 800 Portage Avenue Winnipeg MB R3G 0N4

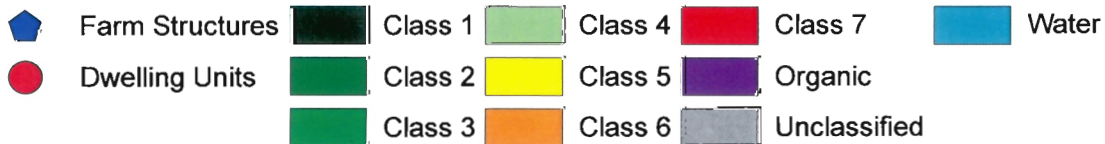
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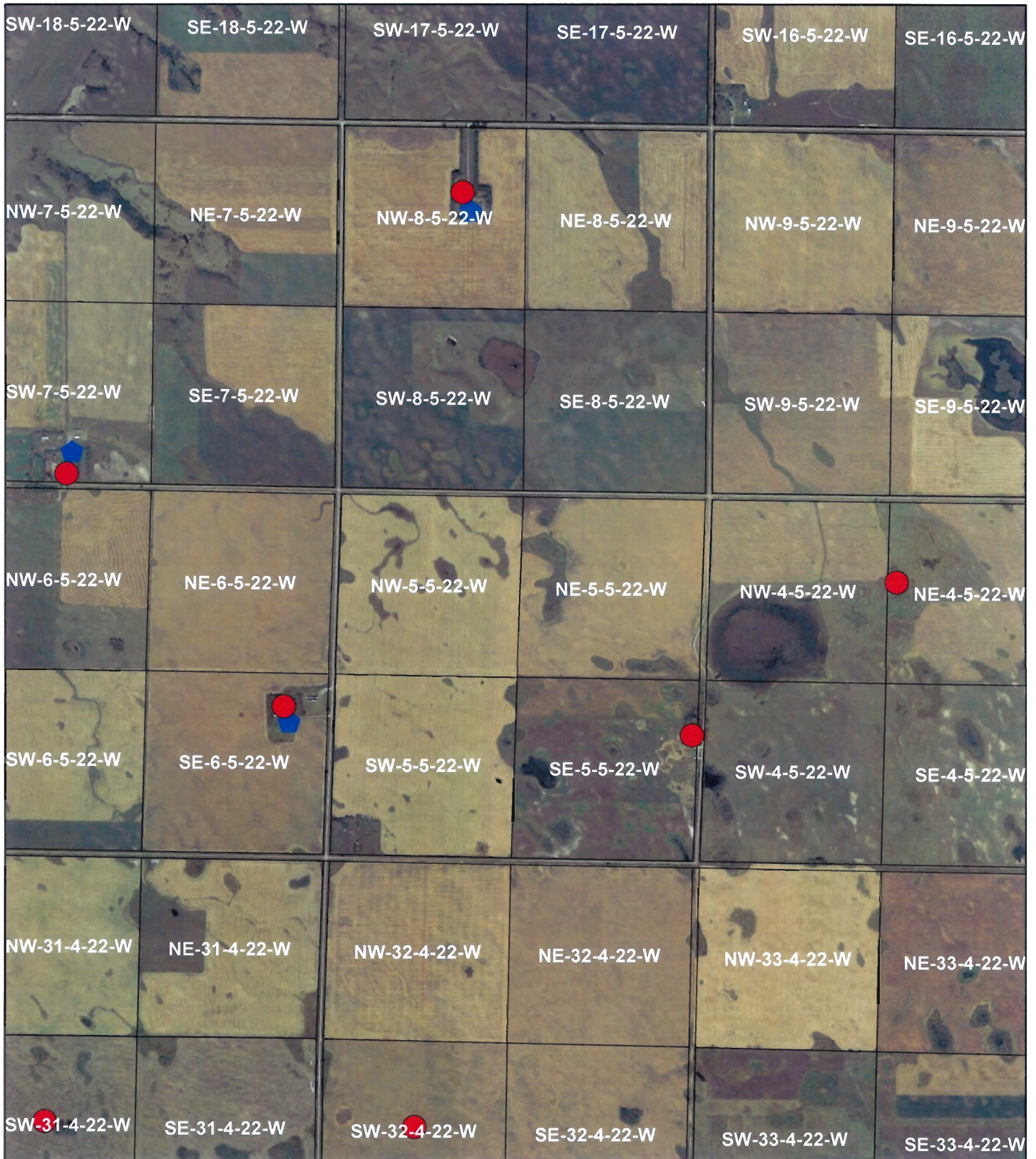




## Canada Land Inventory (CLI) Soils





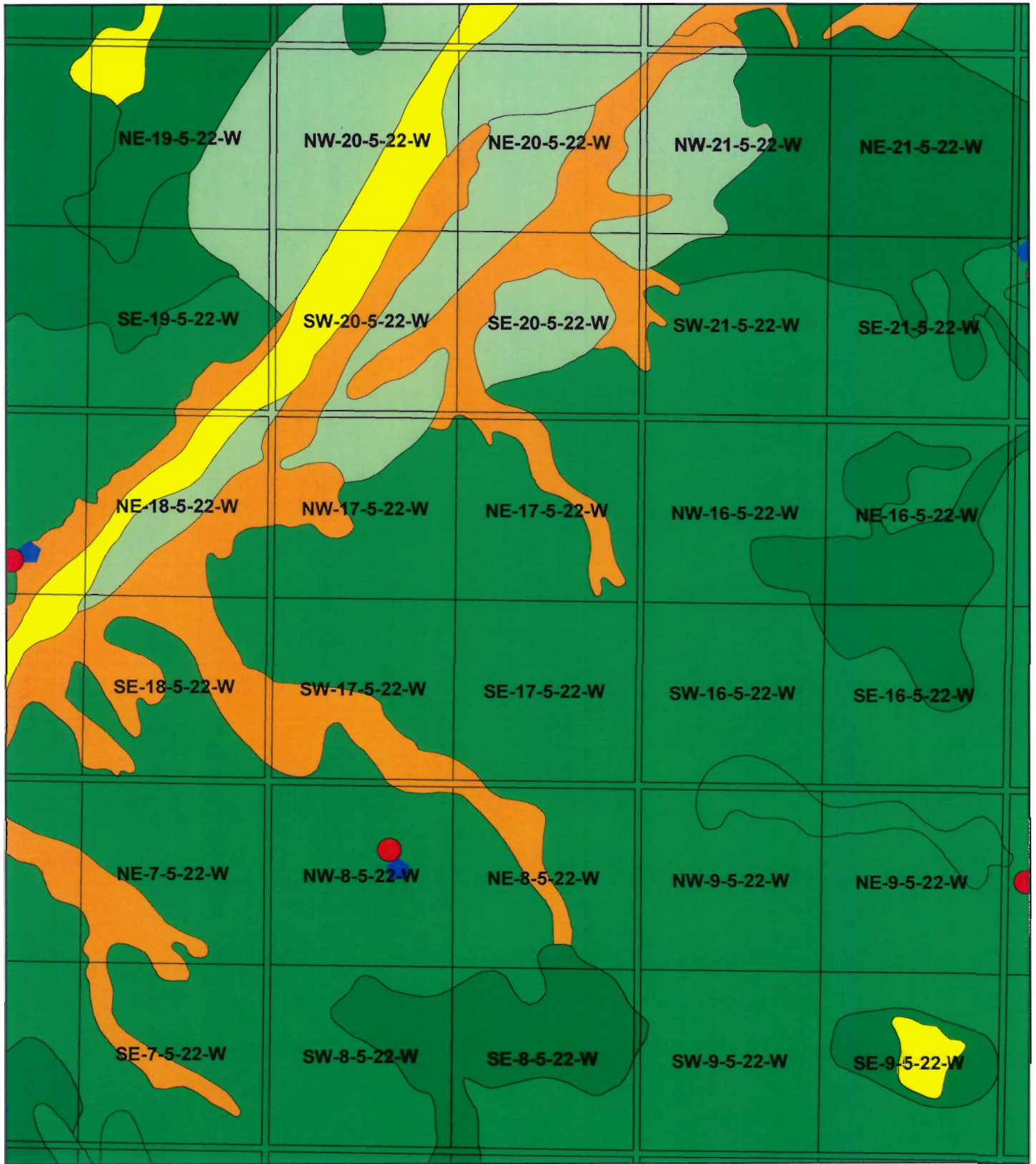
# RM of Cameron



-  Farm Structures
-  Dwelling Units



# RM of Cameron



2,000 1,000 0 2,000 Feet

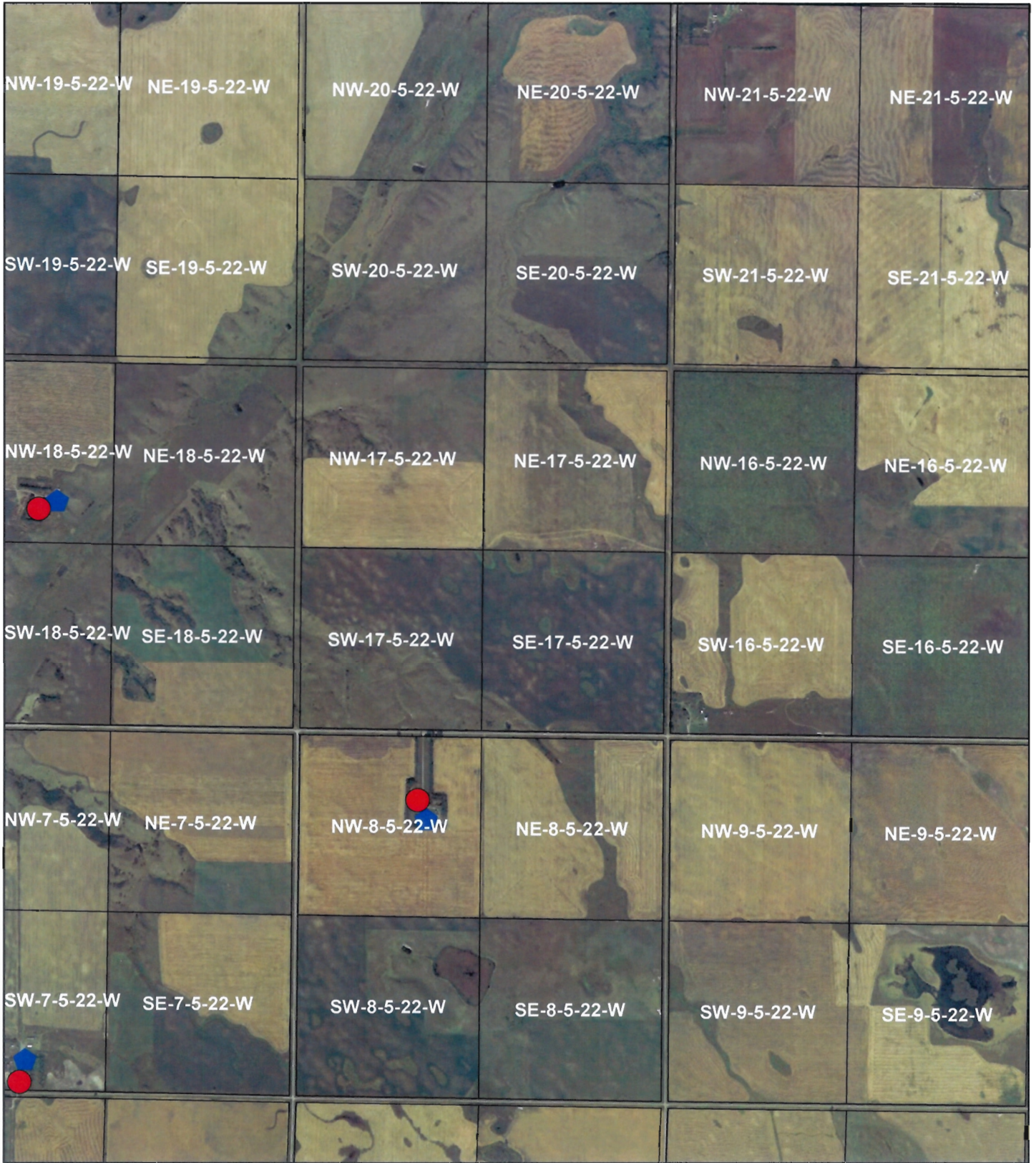


## Canada Land Inventory (CLI) Soils







# RM of Cameron



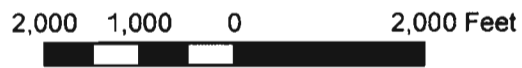
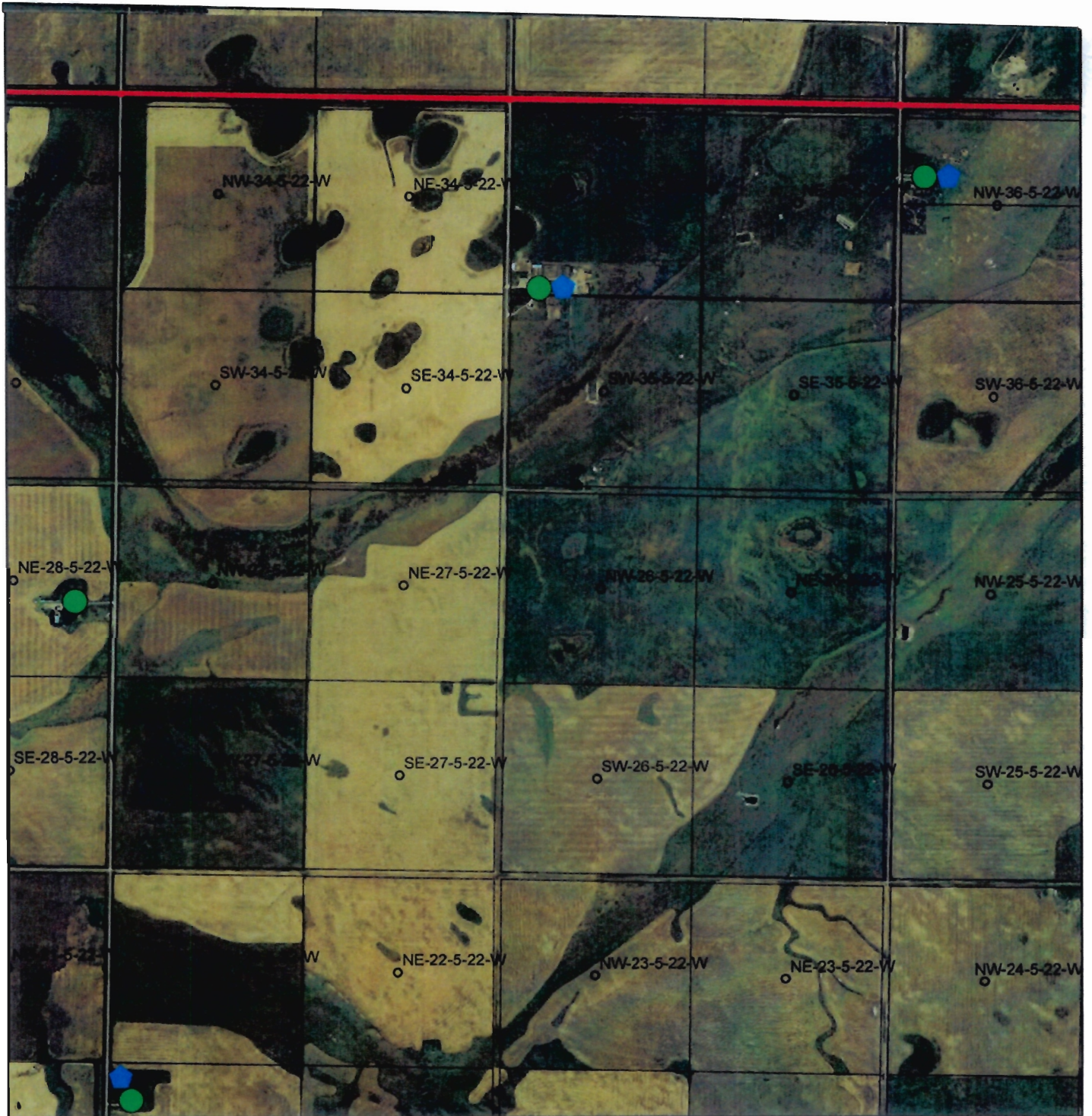
2,000 1,000 0 2,000 Feet





-  Farm Structures
-  Dwelling Units



# RM of Cameron

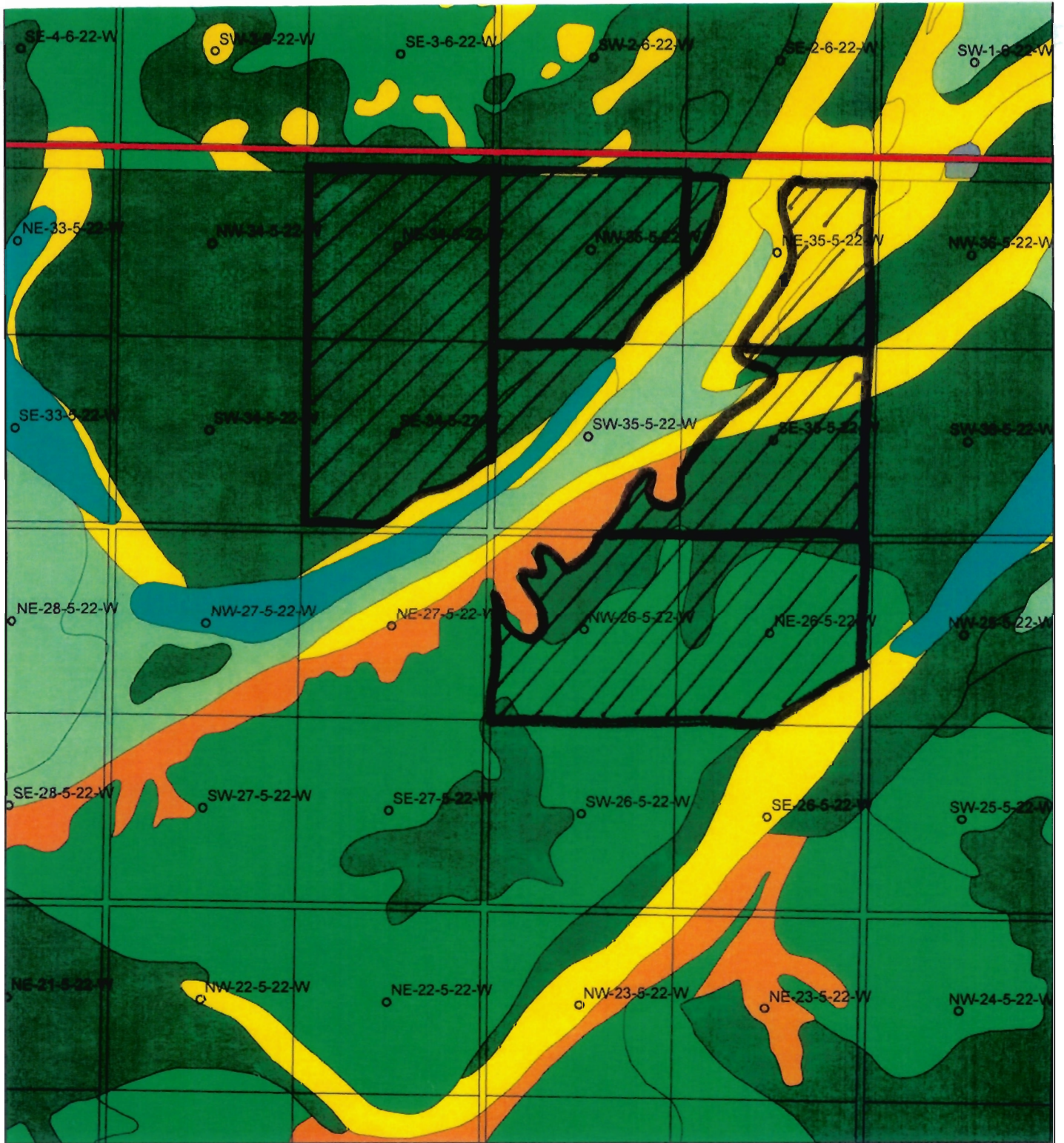


## Legend

-  Dwelling Units
-  Farm Structures



# RM of Cameron



2,000 1,000 0 2,000 Feet

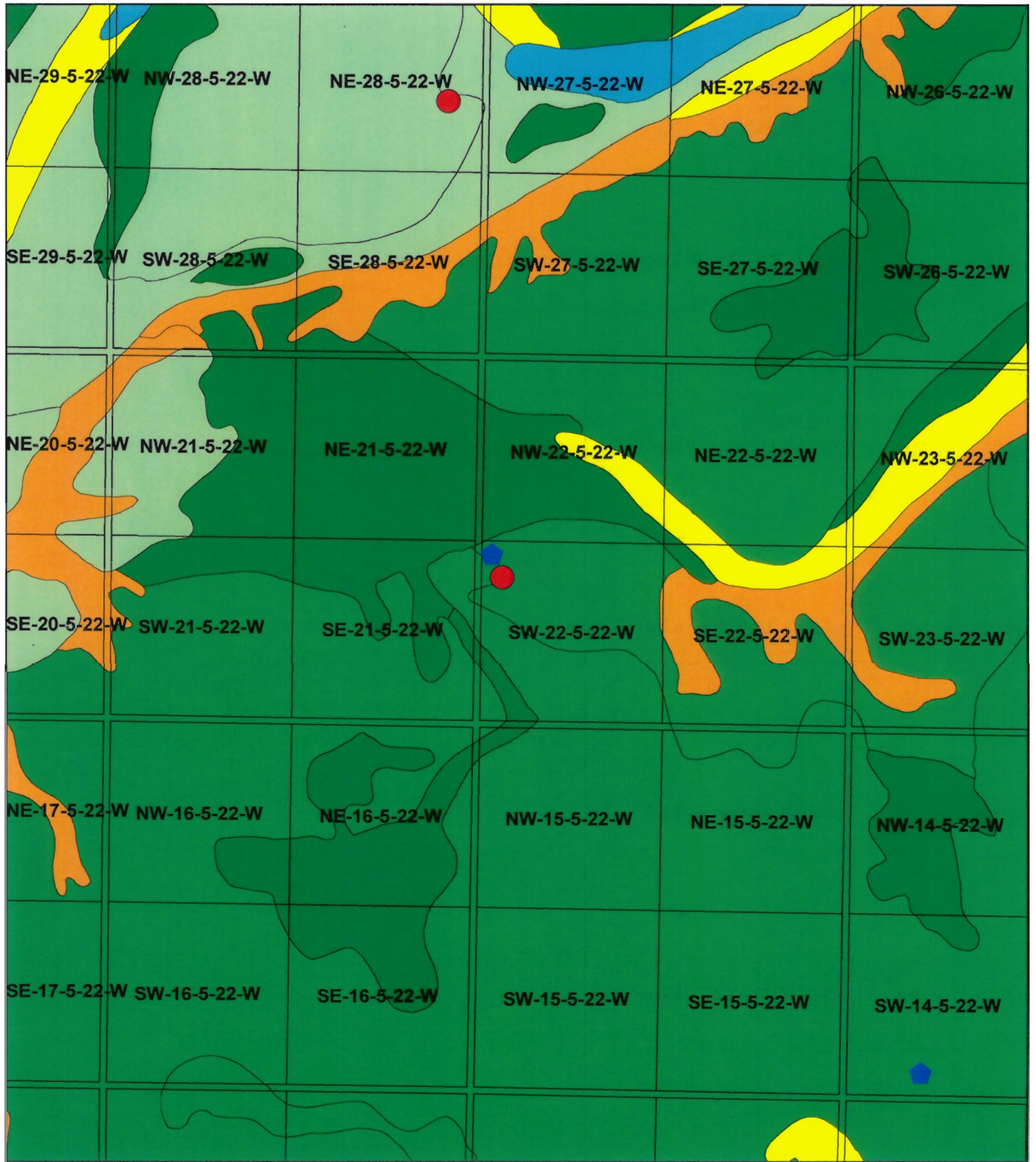


## Legend

- |   |         |   |         |   |         |   |         |  |              |   |           |
|---|---------|---|---------|---|---------|---|---------|--|--------------|---|-----------|
|  | Class 1 |  | Class 3 |  | Class 5 |  | Class 7 |  | Unclassified |  | Spreadare |
|  | Class 2 |  | Class 4 |  | Class 6 |  | Organic |  | Water        |   |           |















# RM of Cameron



2,000 1,000 0 2,000 Feet

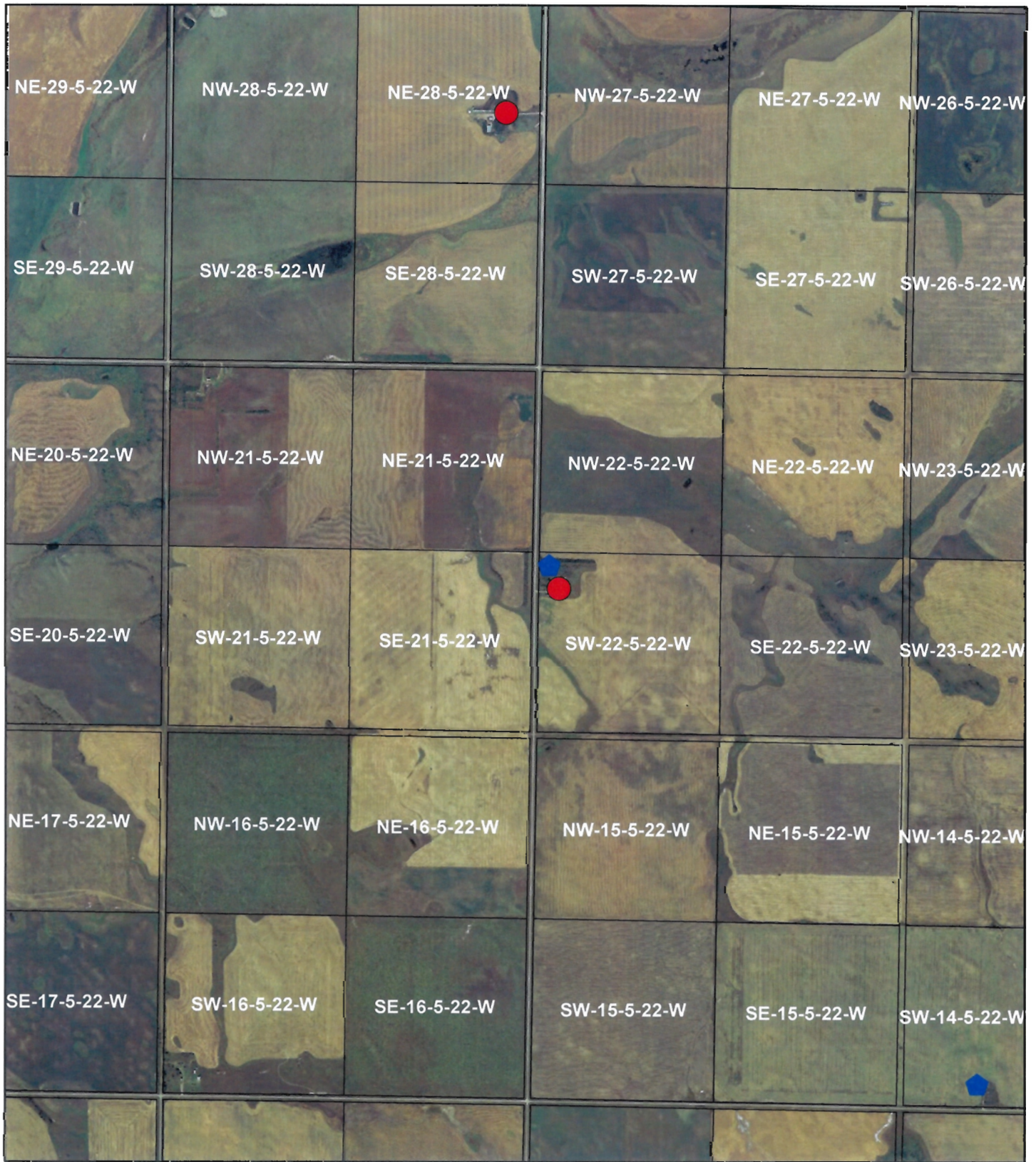


## Canada Land Inventory (CLI) Soils

- |   |   |   |  |   |
|---|---|---|--|---|
|  Farm Structures |  Class 1 |  Class 4 |  Class 7      |  Water |
|  Dwelling Units  |  Class 2 |  Class 5 |  Organic      |   |
|   |  Class 3 |  Class 6 |  Unclassified |   |





# RM of Cameron



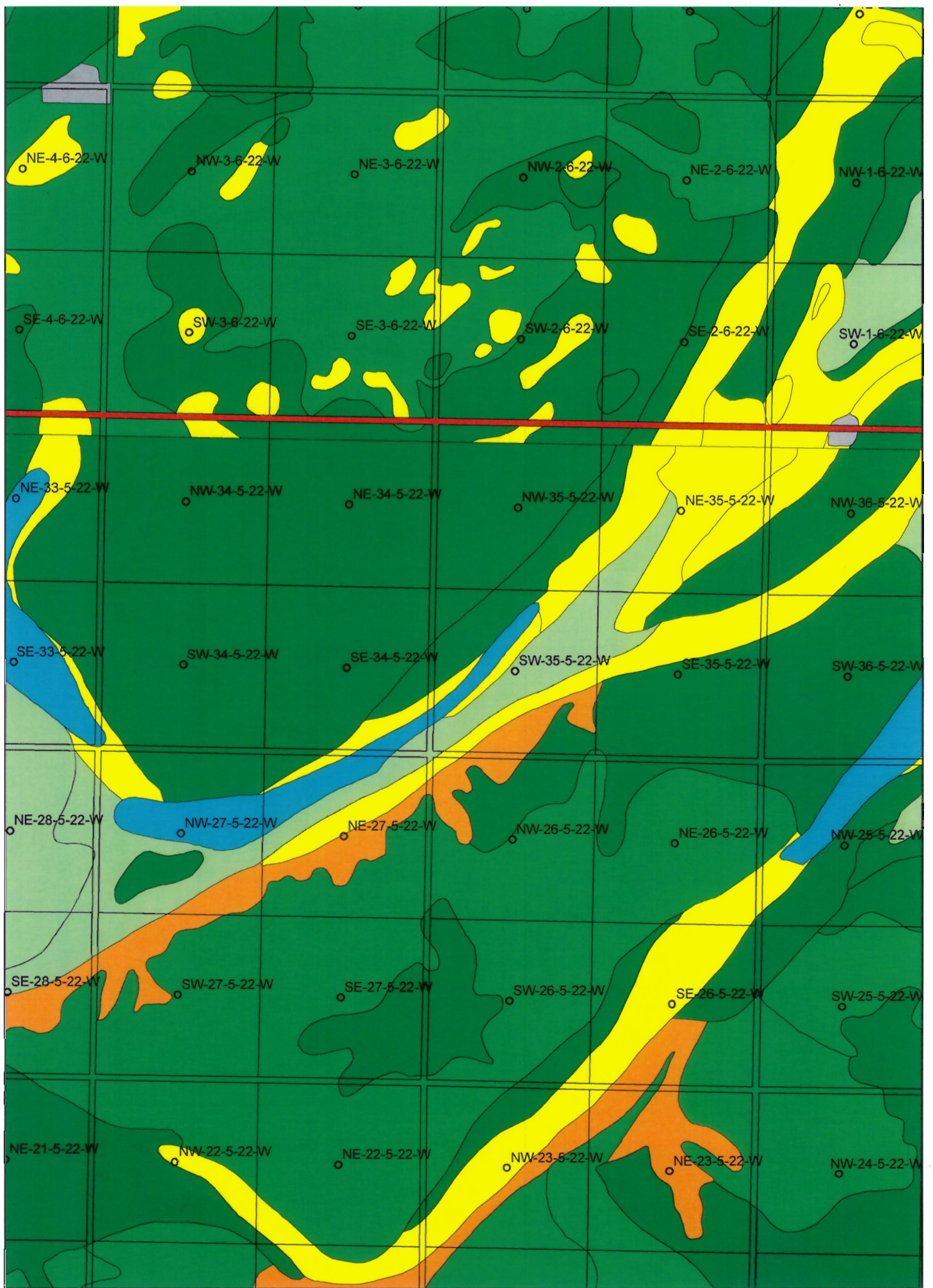
2,000 1,000 0 2,000 Feet



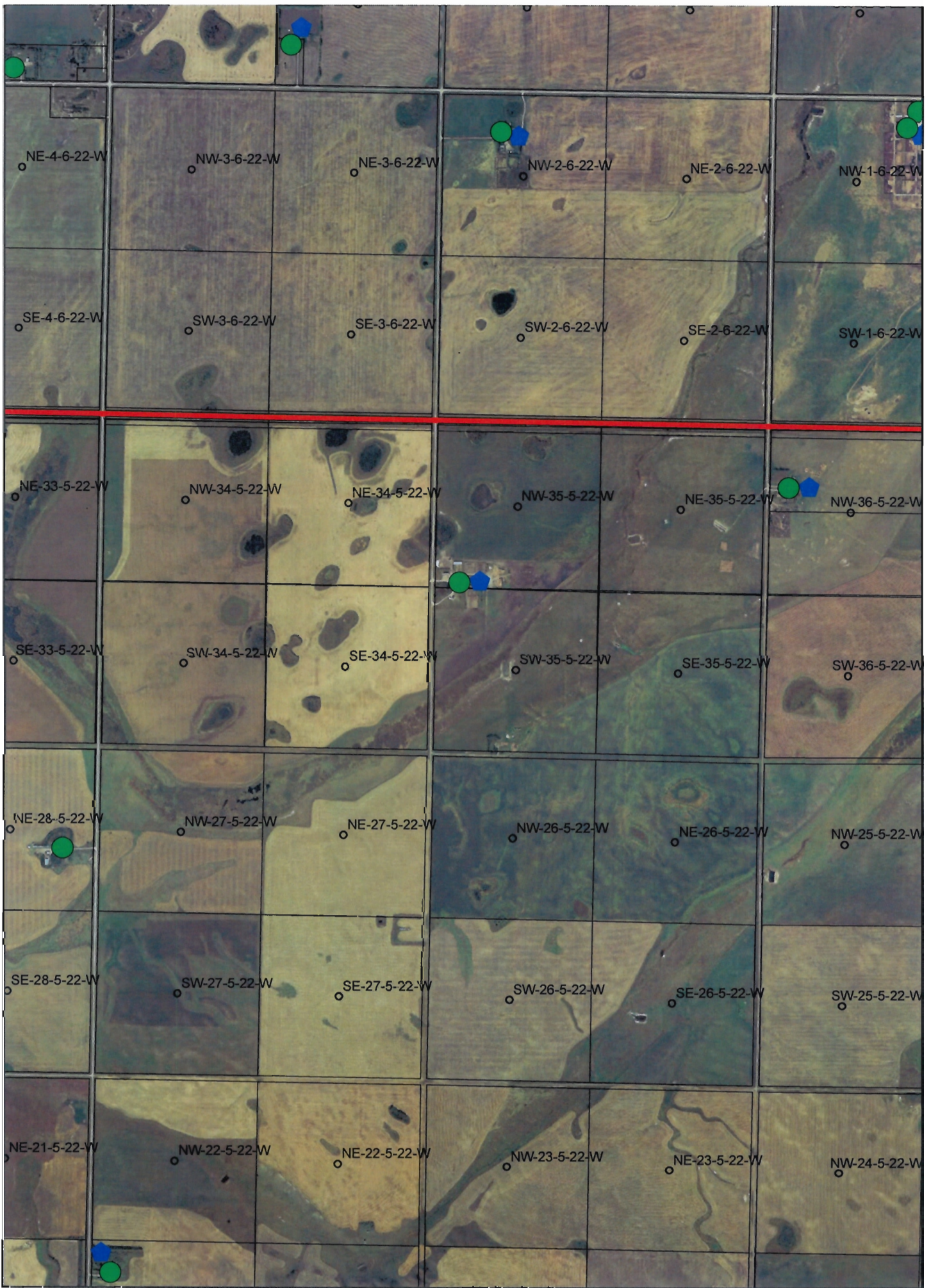
-  Farm Structures
-  Dwelling Units











Land Requirement Estimate (Acres)

Nitrogen	2134
2XP2O5	1582
1XP2O5	3163

Crop	P2O5	Removal		Yield	Units	Acreage	Removal	
		N	Units				P2O5	N
Alfalfa	13.8	58	lb/ton	2.6	ton/ac	100	3588	541070
Barley Grain	0.42	0.97	lb/bu	60.8	bu/ac	160	4086	240962
Canola	1.04	1.93	lb/bu	33.6	bu/ac	450	15725	1019722
Grain Corn	0.44	0.97	lb/bu	20	bu/ac			
Corn Silage	12.70	31.20	lb/ton	4.1	tons/ac	650	33846	4329516
Grass hay	10.00	34.20	lb/ton	2.6	tons/ac	200	5200	462384
Oats	0.26	0.62	lb/bu	89.2	bu/ac	100	2319	128261
Wheat - Spring	0.59	1.50	lb/bu	45.3	bu/ac	320	8553	581152
Wheat - Winter	0.51	1.04	lb/bu	63.4	bu/ac	160	5173	341116
					Total	2140	78489	7644183
				Removal per acre			36.7	97.4

Species	Type	Storage Type	Animal Numbers	Weight In (kg)	Weight Out (kg)	Average Animal Wt (kg)	Days on Feed per Cycle (Days)	Number of Cycles per Year	N Excreted Per 1000 kg Animal per Day	N Excreted Per Animal Per Cycle (kg/cycle)	N Excreted Per Animal per Year (kg/year)	N Excreted Per Herd Per Year (kg/year)	N Excreted Per Herd Adjusted for Storage N Loss (kg N/yr/herd)	N Excreted Per Herd Adjusted for Storage N Loss (lb N/yr/herd)	P205 Excreted Per 1000 kg Animal per Day	P205 Excreted Per Animal Per Cycle (kg/cycle)	P205 Excreted Per Animal per Year (kg/year)	P205 Excreted Per Herd Per Year (kg/year)	P205 Excreted Per Herd Per Year (lb/year)
Feeder	Backgrounder	Solid Stock Pile	3000	350	550	450	245	1	0.408	44.98	44.98	157437	94462	207817	0.14	15.07	15.07	52732	116010