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:
Red River Pullet Farms Ltd.
Operation location (project site): 2 30100 Cam-Mart Road
Rural Municipality (RM) of Hanover
Legal description: section, township, range or river lot(s) NE 6-4-6 E
Manitoba Premises Identification Number: MB 1035196
Municipal tax roll number(s): 270250.000
Show the location of the operation (project site) on a location map. (See <u>Location Map</u> for example).

Location Map attached (Appendix 1)

4.0 Nature of Project ?					
New operation					
Expansion of existing of	peration				
, ,	s will be replaced or demolishe v they will be reused or expand				
Existing building from a former hog farm with 395 animal units will be renovated and reused to house 115,000 pullets. In addition, a new barn will be constructed					
on the site to house 35,0	00 pullets, for a total of 150,	000 pullets. 			
5.0 Proposed Type and Size State the proposed type and s	of Operation ? ize of the operation. (See Anim	nal Units Calculation Table.)			
Type of operation	Existing number of	Total Animal Units			
(Column B from Animal Units Calculation Table)	animals (Column C from Animal	(Column F from Animal Units Calculation Table)			
Omis Calculation Table)	Units Calculation Table)	Onits Calculation Table)			
Pullets		495			
Animal Units Calculation Table attached (Appendix 2)					
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 <i>The Environment Act</i> .					
Confined Livestock Area: ☐ outdoor seasonal feeding area ☐ feedlot ☑ not applicable					
Indoor Barn/Animal Housin	ng				
Indoor Barn/Animal Housing Indoor Animal Housing: a 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 <u>Project Site Plan example</u> and the Project <u>Site Plan Guide</u> for help creating your site plan.

Project Site Plan attached (Appendix 3)

7	Λ	Fnv	iron	mont	al Farm	Plan	nina
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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 (new operation)

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 <u>Nutrient Management Regulation</u> (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.

<u>Nutrient Buffer Zone</u> 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.

			6
Water source for operation:	☐ pipeline (public) ☐ proposed well ☐ river ☐ dugout (dimension	 water co-operative existing well lake	
If using an existing well, prothe property. Logs can be obticalling (204) 945-7418 in Wi	vide a copy of the water tained from Manitoba Co	onservation and Water Ste	
(Appendix 4)			

Source Water Analysis Reports

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 (n/a) (New pullet operation on the site of a former hog operation, with existing well) Will livestock have direct access to surface water (not including dugouts)? yes no
will investock have direct access to surface water (not including dugouts)? yes yes
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.
To calculate the total water use, go to the <u>Water Requirement Calculation Table</u> . Maximum daily use: 6,000 imperial gallons or litres Maximum annual use: 10 cubic decameters
To calculate the total water use, go to the Water Requirement Calculation Table. Maximum daily use: 6,000 imperial gallons or litres Maximum annual use: 10 cubic decameters (2,190,000 imperial gallons/year)
To calculate the total water use, go to the <u>Water Requirement Calculation Table</u> . Maximum daily use: 6,000 imperial gallons or litres Maximum annual use: 10 cubic decameters

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 Storage includes leachate collection Earthen storage has between 400 and 500 days storage Steel/concrete tank has between 250 and 500 days storage Manure storage facility meets required setbacks Field storage (solid manure) locations are changed annually Field storage meets required setbacks All application fields are soil tested annually for nitrate-N and Olsen phosphorus All manure is applied according to a manure management plan Licensed commercial manure applicator is used to apply manure Abandoned wells have been properly sealed		n/a n/a (see note below) n/a n/a n/a (Livestock Operator)
Other:		
Manure storage facility meets all required setbacks with exception of 100m setb	ack from exist	ting well.
Only 82.3m setback is feasible due to need to situate storage facility within prox	imity to existin	ng barn.

Building in Flood Areas

The <u>Livestock Manure and Mortalities Management Regulation</u> prohibits an operator from putting a manure storage facility within the boundaries of the 100-year flood plain elevation. <u>Manure storage facilities</u> 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 <u>Designated Flood Area Regulation</u> 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	e: "	,
	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 <u>watershed</u> and <u>sub-watershed</u> where the livestock operation and the fields identified for manure application are located?

Name of watershed(s): Rat River; Seine River

Name of sub-watershed(s): Joubert Creek; Lower Seine and Tourond Creek

Name of <u>Integrated Watershed Management Plan</u> for the proposed project site, if applicable: Rat Marsh River Integrated Watershed 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 <u>Livestock Manure and Mortalities Management Regulation</u> 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.)

Please note: RRP proposes to spend more on a facility design that will see the pullet manure dried to solid state, as the volume is less than half (~47%) that of the liquid manure produced by this size of
operation, making it easier and more economical to transport longer distances. liquid volume: solid weight: 77,614 ft 3
Manure Production Calculator Table attached (Appendix 6)
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 (Appendix 7)
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: Wood frame building enclosing concrete storage.
Shelterbelt planting: yes no existing shelterbelt
Other measures (specify):
Manure Treatment Under <i>The Environment Act</i> , 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 ☐ not applicable
(anaerobic decomposition will occur)

	If yes, please describe
	Manure Application Method
	The <u>Livestock Manure and Mortalities Management Regulation</u> 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 (new operation)
	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.
For Grass	Proposed application method: broadcast broadcast and incorporation within 48 hours calculation Pasture only) (All other spread fields) 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 <u>Livestock Manure and Mortalities Management Regulation</u> 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 <u>Livestock Manure and Mortalities Management Regulation</u> and the <u>Nutrient Management Regulation</u> , 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 <u>Setback Requirements From Water Features Table</u>.

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

yes	no no
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Use the Manure Application Field Characteristics Table to determine the following:

Total suitable area available for manure application 1,629.5 acres

Manure Application Field Characteristics Table attached (Appendix 8)

Copies of <u>soil test reports</u> 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. (Appendix 9)

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 availablility 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 <u>Crop Rotation Table</u>). (Appendix 10)

The <u>Livestock Manure and Mortalities Management Regulation</u> 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 P_2O_5 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).

Is the livestock on	peration located in "a	certain areas"?		
yes no	retution tocated in			

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 <u>Land Base Calculator</u> 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	
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	1,606 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 (Appendix 11)

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:

oplication, 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 overapplication 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 ______1,606 _____ 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 <u>Livestock Manure and Mortalities Management Regulation</u> 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 (Rothsay will be contracted for dead stock pickup service)
	composting
	incineration (in approved incinerator only)

Mass Mortalities

lacksquare	A plan	for	mass	mortalities	1 S	ın	place.

What steps will be taken in the case of mass mortalities?
As per Section 15(6) of the Livestock Manure and Mortalities Management Regulation:

- 1. Report the situation to an environment officer and answer any questions regarding the situation.
- 2. Dispose of the mortalities according to the environment director's or an environment officer's instructions.

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 <u>The Planning Act</u>, 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 <u>Provincial Planning Regulation</u> under <u>The Planning Act</u> applies.

Development Plan

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

Name of Planning District	RM of Hanover
Development Plan by-law number	2170
Land use designation of project site	General Agricultural Area
Livestock operation policies – quote supportive policy numbers	3.3.5, 3.3.6, 3.3.9 - 3.3.15
Other Development Plan policies – quote supportive policy numbers	3.3.1, 3.3.2 a)
Non-supportive Development Plan policies	

The Development Plan livestock operation policies support the size and location of the proposed operation. (Subject to conditional use)

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	80 acres	160 ***
Minimum site width	1338 ft.	1000 ft.
Minimum front yard	470 ft.(new barn); 312ft. (existing	barn) 164 ft.
Minimum side and rear yard	368 ft. / 1735 ft.	164 ft./164 ft.

^{***} Existing LOs may be allowed to expand on an existing site of less than 160 acres provided they comply with all environmental regulations and separation distances.

	20
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.	W
	-

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 r separation required i zoning by Provincial Regulation (Check ap box(es)	n distance n the law or l Planning n	If land use feature is less than the minimum separation distance		
	☐ a. ☐ b.	2 c. 3 d.	Provide actual distance	Provide location or name of feature (e.g. Red River)	
Residence/ dwelling		820 ft.	3,880 ft. (1.18 km)	SW 7-4-6 E	
Designated area (non-agricultural)		4,364 ft.	42,700 ft. (13 km)	Rural Residential Area NW 9-5-5 E	
Surface water		328 ft.	330 ft. Proposed Manure Storage to Surface I 470 ft. Proposed Barn to Ditch		
Surface watercourse		328 ft.		d Manure Storage to Surface Drain d Barn to Ditch	
Crown land			None in immediat	e area.	
Wildlife Management Area			None in immediat 14,665 ft. (4.47 km)	e area - nearest is: Red River Wildlife Management Area	
Livestock operation			4,171 ft. (1.27km) 4,479 ft. (1.37km)	NW 7-4-6 E SW 8-4-6 E	
Other significant features/land uses					

If Crown Lands are located within one mile, provide coding. Information can be obtained from the Interdepartmental Operations Crown Lands Plans through the <u>Manitoba</u> <u>Legislative Library</u> 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)
	Manure storage facility	100 m	100.6 m 221 m 82.3 m	Surface Drain Ditch Existing Well
Surface watercourse,	Field storage	100 m	n/a	
sinkhole, spring, or well	Composing site	100 m	n/a	
	Confined livestock area	100 m	n/a	
	Manure storage facility	100 m	112 m	
Property Line	Composing site	100 m	n/a	
	Confined livestock area	100 m	n/a	

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

The setback requirement between the manure storage facility and the well has not been met. This is due to plans to make use of the existing barn and well, and the need to position the new manure storage building in close proximity to both the existing and new barns.

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).

Location and Land Use Map for Red River Pullet Farms Ltd. & one spread field - Appendix 12 Other Spread Field Maps - Appendix 13

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.

	Estimated Average Number of times per day accessing		Access from PTH/PR onto site will mainly require a Left or Right Hand Tum Please check one				Access onto PTH/PR from site will mainly require a Left or Right Hand Turn Please check one			
Vehicle Type	Provincial Provincial Road Highway		Trunk h	incial Highway TH)	Provincial Road (PR)		Provincial Trunk Highway (PTH)		Provincial Road (PR)	
	(PTH)	(PR)	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
Truck (half ton)	1 to 2/day	1 to 2/day	V			V		V	/	
Tractor Trailer	2 to 3/week	2 to 3/week		V	V		/			>
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 (Appendix 14)

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 Repo	ort?
☐ Yes ☑ No				

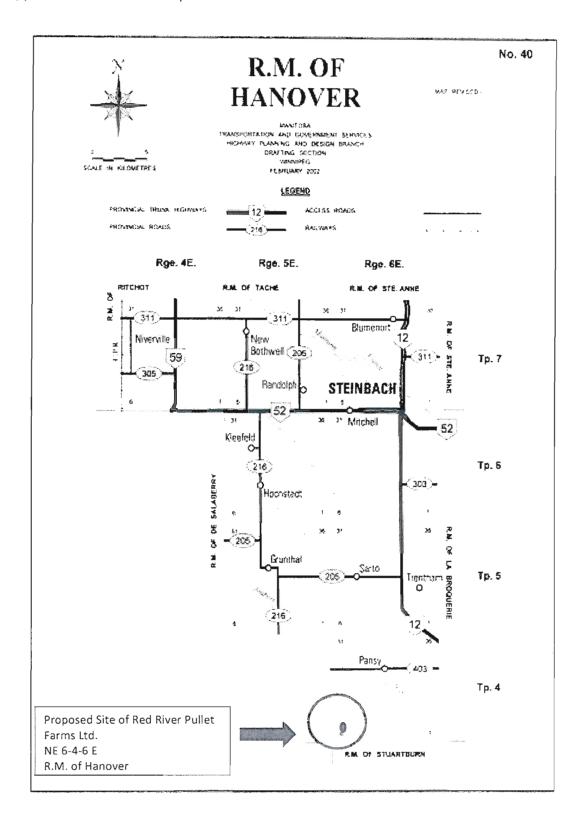
Response from Conservation Data Centre Report - Appendix 15

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:
Copy of RM of Hanover Conditional Use Application
Water Well Log for existing well at NE 6-4-6E (Appendix 4)

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



Appendix 2 - Animal Units Calculation Table

Α	В	С	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 Confinemen Period (Days
	Mature cows (lactating and dry) including associated livestock			2		
	Mature cows (lactating and dry)			1.35	-	
	Heifers (0 to 3 months)	<u></u>		0.16		
Dairy ¹	Heifers (4 to 13 months)			0.41	-	
	Heifers (> 13 months)			0.87	-	
	Bulls			1.35	-	
	Veal calves			0.13	-	
	Beef cows including associated livestock			1.25	-	
Beef	Backgrounder			0.5	-	
	Summer pasture / replacement heifers			0.625	-	
	Feeder cattle			0.769	-	
	Sows - farrow to finish (234-254 lbs)			1.25	-	
	Sows - farrow to weanling (up to 11 lbs)			0.25	- 1	
Pigs	Sows - farrow to nursery (51 lbs)			0.313	-	
rigs	Boars (artificial insemination units)			0.2	-	
	Weanlings, Nursery (11-51 lbs)			0.033		
	Growers / Finishers (51-249 lbs)			0.143	_	
	Broilers			0.005	-	
	Roasters			0.01	-	
Chickens	Layers			0.0083	-	
Cilickells	Pullets		150,000	0.0033	495.00	
	Broiler breeder pullets			0.0033	-	
	Broiler breeder hens			0.01	-	
	Broilers			0.01	-	
Turkeys	Heavy Toms			0.02		
	Heavy Hens			0.01	-	
Horses	Mares			1.333	-	
Sheep	Ewes			0.2	-	
- Olicep	Feeder lambs			0.063		
Other Livestock	Type:					
C.I.C. EIVOCOCK	Type:				-	
				Total AUs	495.00	

Footnotes:

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. <u>www.gov.mb.ca/agriculture/contact/agoffices.html</u>

¹ 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 yeal calves are always calculated separately.

Appendix 4 - Water Well Log

line

Well PID: 104317
Location: NE6-4-6E
UTMX:662615.5 UTMY:5460707 XY Accuracy:No Accuracy
Owner: PLANATE HOGGLYWOOD INC (FORMER OWNER OF SITE)
Driller: Echo Drilling Ltd.
Well Name:

Date Completed: 1997 Jun 06 Well Use: PRODUCTION
Water Use: Domestic
Well Status: ACTIVE

Aquifer: SAND AND GRAVEL

REMARKS:

WELL	LOG	(Imperial units)
From	To(ft	.) Log
0.0	7	SAND
7.0	21	TILL
21.0	27	SAND
27.0	33	TILL
33.0	35	SAND
35.0	57	GREY CLAY
57.0	93	TILL
93.0	121	SAND
121.0	130	TILL

WELL CONSTRUCTION

Inside Outside Slot

From	To(ft)	Const.Method	Dia.(in)	Dia.(in)	Size(in)	Туре	Material
0.0	108.0	CASING	5.0			INSERT	PVC
108.0	118.0	PERFORATIONS			0.015	WIRE WOUND	S. S.
100.0	118.0	GRAVEL PACK				NO. 20-40	SILICA

S.

0.0 100.0 CASING GROUT

BENTONITE

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 1997 Jun 06 Pumping 12.0 Imp. gallons/minute Water level before test : 15.0 ft below ground

Water level at end of test : 28.0 ft below ground

Test duration:

Test Zone: from 108.0 ft to 118.0 ft

Appendix 5

Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	IG/day per animal in summer	IG/day (Imperial gallons per day)
Beel/Qary/Bison				
Feeder/heifer/steer (600 lb.)		5	9	-
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	-
Horses	***************************************			***************************************
Horses		8	11	-
Hogs	***************************************		******	
Sow (Farrow/wean)		6	.5	-
Dry Sow/Boar			4	-
Feeder			3	-
Nursery (33 lb.)			2	-
Chickens			****************	
Broilers		0.0)35	-
Roasters/Pullets	150,000	0.	04	6,000
Layers		0.0)55	-
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)	6,000

For beet, 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)

U	nit Conversion	is
Total per day	Total per year	Unit
6,000	2,190,000	IG
27,276	9,955,740	litres
0.027	10	cubic
		decametres
		(dam³)

Enter this number on page 7 of Application Form.

Conversion Factor: 1 IGPM = 4.546 l/m



	, ,				3.32		2000	Heavy loris	idineye
					מא מ		Table o, by oo,	Dicial o	Turkous
					2.83		Table 3 no 85	Broilers 6	
	-							Pullets – solid pack ⁹	
				*************************************	0.75			Pullets – floor ⁶	
483,533.3	77,614	150,000	266	0.71	0.71			Pullets – cage ⁸	
							_	Layers – solid pack ⁹	
					1.68		2000	Layers - floor '	
0.0	,				2,33		FPGs for Poultry	Layers – cage °	Chickens
		181 101 101 101 101 101 101 101 101 101			1.16		Table 3 no 85	Roasters - floor "	
					0,99			Broiler breeder pullets ⁶	
					2.3			Broiler breeder hens '	
					1.23			Broilers – floor ⁶	
for Semi-Solid and Liquid Manure (Imp Gal)	Volume (ft³) (F/365xGxH)	Number of Birds " (Capacity)	Production Period 2 (Days)	Operation Manure Production 1 (ft³/year/bird space)	Default Manure Production (ft³/year/bird space)	Default Ma (ft³/yea		Type of Operation	Animal Type
Total Manure Volume	Total Manure)	ction	Yearly Manure Production		7 P		
0.0					0.25	Liquid		Grower / Finisher (51 - 249 lbs)	
0.0					0.1	Liquid	7007	Weanlings, Nursery (11 - 51 lbs)	
0.0						Liquid	FPGs for Pigs	Sows - farrow to nursery (51 lbs)	Pigs
0.0					0.8	Liquid	MAFRI website,	Sows - farrow to wean (up to 11 lbs)	
0.0	ī				2.3	Liquid		Sows - farrow to finish (234 - 254 lbs)	
					1.1	Solid		Feeder cattle	
					0.85	Solid	Hogs 1998	Summer pasture / replacement heifers	-
					0.73	Solid	pg 117, FPGs for	Backgrounder (200 day)	Repf
					1.2	Solid		Beef cows including associated livestock	
				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5	Liquid		Milking Parlour Manure and Washwater	
					3.0	Solid	-	Loose Housing	
0.0					3.6	Liquid ⁵			
					3.5	Solid	1995	Tie Stall	livestock)
0.0					3.6	Semi-Solid ⁵	EPGs for Dairy		and associated
0.0					3.5	Liquid ⁵	Table 6 pa 50		7
					3.4	Solid		Free Stall	
0,0					3.5	Semi-Solid ⁶			
				(F)	(E)	5	2		
for Semi-Solid and Liquid Manure (Imp Gal)	Total Manure Volume (ft²) (FxGxH)	(Capacity)		Operation Manure Production 1	Default Manure Production	Manure Type	References	Animal Sub-type (B)	Animal Type (A)
Total Manure Volume		Nimber of Animale	Droduction Deriod		Daily Manure Production	Daily N			1
A STATE OF THE STA			,						

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:

¹ ENTER the manure production estimate for your operation. If no estimate is available, use the default value provided in colum 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 250

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.

⁶ Default manure production estimates for semi-solid and liquid dairy manure include manure and washwater from the milking parlour.

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

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

Appendix 7 (Proposed Only - 3rd page)

Existing and Proposed Manure Storage Facility Dimension Table

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

	Exi	Existing Manure Storage Facility													
		mensions Storage Capacity (days) ft ft ft The properties of the													
CELL	Width	Length	Depth		Slope	e (H:L)									
CELL	*********		D C p til	(Above Grade)	Inside	Outside									
Primary	ft	ft	ft	ft											
	ft	ft	ft	ft											
Secondary															
	ft	ft	ft	ft											
Tertiary															
			Г	Γ	I										
Circular	Tank	Diameter	Height												
		ft	ft	ft											

Permit/Registration #		
remilitreustiation #		

If available, indicate the dimensions of any $\underline{\text{proposed}}$ manure storage facility (MSF) that will be used to store manure from the proposed project:

	Prop	osed Manu	ire Storage	Facility D	imensio	ons	Storage
CELL	Width	Length	Depth	Height	Slope	(H:L)	Capacity (days)
				Grade)	Inside	Outside	(uays)
Primary	Primary 40 ft		6 ft	ft			250
Secondary	ft	ft	ft	ft			
Tertiary	ft	ft	ft	ft			
Circular	Tank	Width Length Depth (Above Grade) Inside Outside 40 ft 200 ft 6 ft ft ft ft ft Diameter Height Depth					
Circular	1 GIIIX	ft	ft	ft			

The construction, modification or expansion of any manure storage structure requires a permit from Manitoba Conservation as per the *Livestock Manure and Mortalities Management Regulation (M.R. 42/98)*.

Appendix 8

Manure Application Field Characteristics Table

In the attached Spread Field Characteristics Table and spread agreements that follow, you will note the fields identified have primarily been secured with a father and son farming partnership, run by Benoit and Curtis Catellier. As two of the seven spread fields farmed by the Catelliers are rented from neighbours, supporting spread field agreements have also been signed with the property owners.

The spread fields farmed by the Catelliers include seven parcels of land in close proximity to each other and are all within the Agriculture 2 Zone of the RM of De Salaberry, to the south of St. Malo. While one field [SW/NW 16-4-4E (E1/2)] and part of another [(E1/2) 9-4-4E] are just beyond the 10-mile limit, these fields share property lines with the others and therefore represent no additional challenge to reach. Furthermore Phosphorus levels on the land farmed by the Catelliers, range from 2 to 8 ppm, and all parties are very keen to have the nutrients for the land. They have therefore signed 10-year spread agreements with Red River Pullets Ltd.

Lastly, given plans to produce solid manure from the proposed Red River Pullet Farms operation, the volume of waste to be hauled is less than half that of the same sized operation producing liquid manure. Therefore estimated hauling costs associated with using these fields are also economically rational.

Appendix 8 MANURE APPLICATION FIELD CHARACTERISTICS TABLE

	∞	8	7	7	_{>} ග	5A.7	C)	SRIT	4	5,47	_ ω	5.A		2	S. P.	_		Field	
(Tony Wiens)	SE 8-4-6E		(E ½) SW/NW 16-4-4E		SE 16-4-4E (Curtis Catellier)	(Curtis Catellier)	SE/NW (E1/2) 9-4-4E		NE/NW/SE 4-4-4E (Curtis Catellier)	(Ber	NW/SW (N ½)		<u>ි</u>	SE 3-4-4E		(Benoit Catellier)	11011	d Legal Description	Α
Hanover	RM of		RM of De Salaberry	,	RM of De Salaberry		RM of De Salaberry		RM of De Salaberry		RM of De Salaberry		Salaberry	RM of De		Salaberry		Rural Municipality	В
>	>		Þ		Α		⊳		⊳		≻		⊳		>	Þ		O/L/A	၁
	115		160		160		240		480		233		160	200		160		Total Acreage	D
drain	Land within unmapped		Land within Order 1 Drain		Land within Order 1 Drain		8m – Order 3 Drain		8m - Order 3 Drain, abandoned yard		8 m – Order 3 Drain, Bush,	:	unmapped drain	Bush, land within	drain, dwelling, bush	Land within Order 2 Drain,		Setbacks, including features	ш
	114.7		159.4		158.8		238.4		467.6		214.7		143./	2 07 7		132.2	Spondanon	Net Acreage for Manure	٦
	5P / 3P/ 5W		3W		3W		3W / 2M / 2W		2M / 2W / 3W		2M / 2W / 3MI / 5WI	WC	ZM / ZW / 3M / 5W / 3MI /	04 104 104 154 154 104 1		2M / 2W / 3M / 5W / 5M	01000	Agriculture Capability Class and Subclass	9
	12		33		35		22		44		34		77			21	2 1 11 01 00	Soil Nitrate (Ib/acre)	н
	55		8		ω		2		6		4		U	'n		8		Soil Phosphorus (ppm Olsen P)	-
By-Law 2170	General Agriculture Area	(amended by Bylaw 2289-11)	Agriculture 2 By-Law 2194-04	(amended by Bylaw 2289-11)	Agriculture 2 By-Law 2194-04	(amended by Bylaw 2289-11)	Agriculture 2 By-Law 2194-04	(amended by Bylaw 2289-11)	Agriculture 2 By-Law 2194-04	(amended by Bylaw 2289-11)	Agriculture 2 By-Law 2194-04	(amended by Bylaw 2289-11)	By-Law 2194-04	Agriculture 2	(amended by Bylaw 2289-11)	By-Law 2194-04	Agriculture 9	Development Plan Designation	J
RM of Hanover Zoning By-Law 2171	"A" Agricultural Zone	RM of De Salaberry Zoning By-Law 2290-il	"A-2" Agriculture 2 Zone	RM of De Salaberry Zoning By-Law 2290-if	"A-2" Agriculture 2 Zone	RM of De Salaberry Zoning By-Law 2290-il	"A-2" Agriculture 2 Zone	RM of De Salaberry Zoning By-Law 2290-11	"A-2" Agriculture 2 Zone	RM of De Salaberry Zoning By-Law 2290-W	"A-2" Agriculture 2 Zone	RM of De Salaberry Zoning By-Law 2290-11	A-z Agriculture z zone	"A O" Accionate of Zono	RM of De Salaberry Zoning By-Law 2290-∤	"A-2" Agriculture 2 Zone		Zoning	**

Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish).

Total Net Acreage for Manure Application:

1,629.5

- Identify the Rural Municipality in which the parcel is located.
- Enter the total acreage for the parcel.
 - Indicate how the land has been secured for manure application: O Own / L Lease / A Agreement
- ± O J In D C B > 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). 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.
- Enter the agriculture capability class and subclass ratings for the acreage available for manure application.

 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. 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. Please indicate the Development Plan and its by-law number in addition to the map designation for each field

Appendix 9

Manure Spreading Agreements and Soil Tests

			3100		E SPREADING AG		
etween				gare		reafter referred to as "U	vestock Operator"
	(Please Print	ŧ)		(Signa	- /- / // -		
nd:				(Signa		reafter referred to as: "Landowner" or	"I and Renter"
ate:	Cycl Plessa Prin	<u>y</u>	4 - 1	(San	sure) op	Landownier of C	Land Norther
he dura	ition of this agreemer	nt is of _	10	years, beginnin	g at the above date.		
espor	sibilities of the La	indowne	r or the	Land Renter			
and f	ercels selected	as pote	ntial fie	ids to receiv	ve manure		
Field	Legel Location	(Chec	k One)	Nominal Size Area svallable for		Cropping Intentions	Preferred Application
		Owned	Rented	(acres)	spreading (acres, exclusive of setbacks)		Time
4	SE 3-4-4E	√		160	143.7	Soybeans	Fail
27	NE/NW/SE 4-4-4E	V		480	467.6	Spring Wheat	Fall
26	SE/NW (E 1/2)	✓		240	238.4	Spring Wheat	Fall
agreene as a will in	es to purchase manure pacified below by the Li	nutrient at vestock O in 48 hours	a rate of \$ perstor; of broadc	per ast applications if	allable for spreading 1000 gal or tonne, con sgreed to as part of the manus		
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SUBMITTED FOR:

Soil Analysis by Agvise Laboratories Getto //www.agvise.com) Northwood (701) 587-6010 Bensen; (320) 843-4109

S	OIL TEST	REPORT	
FIELD ID	-/1	F127727 P (P) -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	
SAMPLE (D	7		
MAY CLET	L		
COUNTY	•		
TWP	4	PANCS	ΔF

SECTION 3 QIR SE ACRES. PREV. CROPWhoat-Spring

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SUBMITTED BY: CA041	8	,	
CARGILL-MORRIS	į.		
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BOX 460	REL #	685952 SOX 4	O
MORRIS, MB ROG 1KO	LAST	NW71665	

Trace Sampled

CURTIS CATELLIER

Date Received 09/25/2013

Date Reported 10/11/2013

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	0-24"	22 lb/ac			sug	GESTE	O GUIDELIN	15	590	055750	chicering	5	(41R	KINI~	e Gulipe	L/ME:
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maga i ka sati ji	**** * *** * ***		/		N	153			N	424			١:	147		
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· · · iver		0.73 ppm			Mn	0			MH.	a			M ₁ -	20 S		
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Calecon	:	4797 ppm			Mg	Ò			Mg	0		4	۲ų		:	
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	0-6".	0.65 mmha/cm	******		Şolt p	H [Buffer pH		on Exch	-	V6 13-8:5	e yaka	rzcio	астур	i cal ital	ನಿರ್ಧಾ
C. f. Suer	6-24"	0.88 mmhp/cm							Capacit		% C a	. o/o №	92	No K	Vo Na	9/3 H
Taken.			*	Australia de la	0 61 7 6 24" B				37.0 mc	q	(49.75) 54.8	32.6	- 1	3.2	(144) 1.4	(6-5)

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

Cop 1. 11 Chloride yield deta is limited for this crop. * Caution: Sood Placed Perfiller Can Cause Injury * Many crops may respond to a starter acquission of P.4.1. come a legit soil tests. Crop Komoval: #205 = 45 K20 = 23 AGVISE Band/Maintenance guidelines will build P.6.K test levels to the mediage dange over many years and man installa them.

Cop 2: * Couldon: Seed Placed Fortilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil rest. The risk of the development of iron obtorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P205 = 44 K20 * 15 AGVIZE Bane/ Haintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond as hiftegen to flette testing less than 60 black with a limited soybean history.

Cop. 1: A Caption: Send Placed Pertilizer Can Cause Injury * Many crops may respond to a storter application of P & X even on high self-tasts, complication of P & X even on high self-tasts, complication of P & X even on high self-tasts, complication of P & X even on high self-tasts, complication of P & X even on high self-tasts, complication of P & X even on high self-tasts (complication of P & X even on high self-tasts).



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SOIL TEST REPORT

FIELD ID 27 SAMPLE ID FIELD NAME 27

SECTION 4

COUNTY

TWP

RANGE 4E

QTR N1/2 ACRES 470

PREV."CROP Soybeans

SUBMITTED FOR:

CURTIS CATELLIER

Date Sampled

SUBMITTED BY: CA0418 CARGILL-MORRIS 2 MILE ROAD

BOX 460 MORRES, MB

ROG 1KO

Date Received 10/28/2013

Date Reported 3/18/2014

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V V}-	remais in order from it - 2 controls	ner pared on a real pared on the second		bri FR.
	- 100 - 100 W			
l _{ano} ,	B SENSITERIA STATEMENT THE TRANSPORT	S	September September 5	
REF #	741459	BOX #	0	
AB #	WW130X	22		

Nutrient In	The Soil	Interpretation	11/1	it Cro	p Choice	2n	d Cra	p Choice	Ho -	3	rd Cr	op Cho	ice -
A. 700 (7.28)		MON CON MUS BIOT		Can	ol u- bu		Soy	snank."		POSITION OF	(F) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	Oats	
0-6- 6-241	8 lb/ac 36 lb/ac		200	Yreu	GOAL		Yield	SON		*********	YLA	D GOAL	
	30 10/30		4.8.2	50	BU	Annually satisfair regular	50	ซับ		merchayley on	1,2	8u	antinimon a copp o hay
0-24"	44 lb/ac		SUG	sesrec	GUIDELINES	SUGG	GESTED	GUIDELTNE	s	SUC	Geste	o chiba	LIMES
Autrate to Solithan				Band	/Maint.	-	Band	moint.		Promotion of the	ban	d/Maint.	
			LB/A	CRE	APPLICATION	1,15//	CRE	APPLICAT	ON	1.8/	ACRE	Pady	CATION
Olsen	6 ррт		K.N.	116		N.	***	of the projection of the		a N	51	inne fahrende meg are g	and the second of the second
Pateefuh	142 рот	38	9,04	48	Band *	P203	54	Band *		P:Ot	36	Bar	nd #
0-24	125 lb/sc		16:0	23	Band *	K20	75	⊭and *		300	34	B in ≠	7G *
Chlande		And the second	284		Not	Class	٥		-1	CATE	0	THE RESERVE OF THE PARTY OF THE	a dayment ar
0-B 0-24	66 lb/ac 360 +lb/ac	The state of the s	CI.		Available	2.2				Ç.			er ennement en visse
5000		Total	S	10	Sand	/ SI	t)			S.	0	-	a estimative a
Zerical Character of Park Character of the Control	1.4 ppm		B	٥		8.04	0			9.	0		
range and the second	0.72 ppm 23.9 ppm		20	3	Band (Triel)	Ze	3	Sand (Tri	11)	2n	3	Sand	(Trial)
Manushawk	1.5 ppm			0		Pa.	o		j	Fer	5		
Copper The Copper	0.81 ppm	2 48.	Mo	0		Mn	0		-	Ma	9		
Magnesium * This is	941 ppm		Cu	0		Cu	۵	2		.Cu-	9	1	A SERVICE OF
Calcialo	5288 ppm		Inc	o		MO	0			-1 4 g	3	•	montana
Sodium	41 ppm	177.05 77.05	ume			Ume				Ume			
Ong Moster	3.7 %		2 p 10 45)		Car	ion Exci	2000	W. Bas	e Sa	turati	on (Ty	pical Ra	nga)
Csconarc(CCE)	2.9 %		Soil	H 4B	uffer pH	Capaci	er readily and	% Cs	4/0	Ng	1/0 K	96 (48)	Va H
6-24 6-24	0.49 mmho/cm 0.94 mmho/cm		0-61 8	-		34.8 me	q	(65-75) 75.9	(15- 32	20)	(1 - 7) 1.0	(0 5) Q.3	(0-5)

Commonts: Texture is not estimated on high pH soils.

Crop 1: ** Chieride yield data is limited for this crop. * Caution: Seed Placed fortilizer Can Cause Injury * Nitrogen is credited 13 lbs. for this provious crop. Historical Crop 1: ** Chieride yield data is limited for this crop. * Caution: Seed Placed fortilizer Can Cause Injury * Nitrogen is credited 13 lbs. for this provious crop. Historical Crop 2: * Caution: Seed Placed fortilizer Can Cause Injury * Nitrogen is credited 13 lbs. for the previous crop, Nitrogen credits may need to be adjusted to seed on the conditions. Many crops may respond to a starter application of P a K even on high soil tests. The risk of the development of fron chlorodis on suybname to the field is moderate based on the balt and carbonate levels. Crop Removate P205 = 44 K20 = 75 AGVISE Band/Maintenance culdelibra will build P & X test levels to the medium renge over many years and then meintain them. Saybasee may respond to nitrogen on fields testing less than 60 lb/ac, with a limited saybean history.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 the for the previous crop. Nitrogen credits may need to be adjusted before conditions. Many crops may respond to a starter application of P & K even on high solitests. Crop Removal: P205 = 30 K20 = 23 A GVISE Sand/Platerenonce guidelines will build P & K test levels to the medium range over many years and then maintain them.



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SOIL TEST REPORT

FIELD ID 26 SAMPLE ID FIELD NAME 26 COUNTY

SECTION 9

TWP

RANGE 4E QTR 5E & ACRES 240

PREV. CROP Soybeans

SUBMITTED FOR:

CURTIS CATELLIER

Date Sampleo

SUBMITTED BY: CA0418 CARGILL-MORRIS

2 MILE ROAD BOX 460

MORRIS, MB

REF # MON H 741458 # 3AJ

NW130181

Date Received 10/28/2013

ROG 1K0

Date Proported 3/18/2014

**************************************		The second secon	4.2.4					**			and the second
Nutrient In	The Soil	Interpretation	1st Cr	op Choice	2n	d Cro	p Choice		3rd Cr	op Choi	ce
		West Law Med High	Ca	nola-bu		Soyl	e 6015	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Qots.	2011
76. 0-67	7 lb/ac		Yre	O GOAL		YICLD	GOAL		Yıtı	O GOAL	
	15 lb/ac		.50	BU	-	SO.	30		. 12	ı, pu	and the second
0-24	22 ib/ac		SUGGESTE	D GUIDELINES	SUGO	estro	GUIDELINE	5 5	KGESTE	a Guioe	INES
Nitrate Laggerta			Ban	d/Maint,		. Band/	Maint.		538	d/Moinc.	And the sections
13.197	ļ		LB/ACRE	APPLICATION	:::L8/A	CRE	APPLICATI	ON L	MACRE	APPLIC	ATION
Olegn	2 ppm	कुरू । #.स.च्य	N 138	21-12-12-12-12-12-12-12-12-12-12-12-12-1	N	401		- I	6.0	-	e more vide
Properties	200	property and the second	PO 58	Strod .	P ₂ O ₅	82	Esn# =	2.0	42	Bun	d w
	289 ppm 16 lb/ac		Ko 0		K₂O:	n	Company Canalage	36,6	Colect.	Bei (Stari	ind tor)=
0-6: 6-24	16 lb/ac 264 lb/ac			Not	1 cu	0			3300	Grand	Cast
Sothy boron	1 7 ave		25 15	Band	s	. 5	Sand (Tris	interpretation	Viditaly and provide	Marriel (Trial)
COC	1.3 ppm 0.48 ppm	ART	В		0.0	0			12.94		
LOS CONTRACTOR OF THE PARTY OF	31.0 ppm		2n 2	Band (Yrail)	2	2	Band (Tre	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Sand (Friai?)
	0.9 ppm		Fo. O		r _Q	a	1	76	()		
Copper	1.8 ppm		MG 2	Band	Mn	2	Band	M	2	821	ලන් කෙරු දැනුණු
Magnesium	1575 ppm		Cur o		Ċυ	0		Č,	0	1	
Calcium	6670 ppm	職機	Mg o		Mg	o		M.	0	j {	
Sodium	51 ppm		Uma.		Lime			Llm		1	
OrsMetter	4.2 %	Marie .			on Exch		0/a Bas	Satura	ion (Ty	pical Rar	ige)
Cardonate(CCE)	4.4 %		SellipH	Buffer pH	Capacit	THE PERSON NAMED IN	% Ca	% Mg		95 No.	A second order
0-6- 16-24 201-54(9)	0.53 mmho/cm 0.52 mmho/cm	947 165- 2014	0-6" 8.0	The state of the s	47.4 me	đ	(55-75) 70,3	(15-20) 27,7	(1-73 3.56	(0.5) \$3.5	(6-5)

General Comments: Texturn is not estimated on high pil soils.

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 by for the previous crop. Nitrogen and data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 by for the previous crop. Nitrogen is credited 15 by for the previous crop. Nitrogen is credited 15 by for the medium range over many years and then maintain them.

Crop 2: * Caution: Sood Placed Pertilizer Can Cause Xnjury * Nitrogen is credited 15 by 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. The risk of the development of high chlorosis on soybeess print field in high based on the sult and carbonate levels. Crop Removals P205 a 44 K20 = 73 AGVISE Band/Maintenance guidelines will build P & K test levels to the modules recipied to histogen on fields testing less than 60 by ac with a Finited soybean highery.

Crop 3: 31 lbs of 0-0-00 x 24 by of Chloride * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen and them seed 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 at 30 K20 at 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then meintain them.

		LIVESTOCH	(MANURI	E &PREADING AG	REEMENT	
Between:	Red River Pullet Fa	rms Ltd.	ful De	CAL HO	reafter referred to as "Liv	estock Operator*
Detween.	(Please Print	1)	(Signa			
And:	Curtis Catellier		wills		reafter referred to as:	,
Date:	and Please Prin	p 	(Signa	ature)	"Landowner" or 👿	"Land Renter"
The dura	tion of this agreemen	nt is of	years, beginning	g at the above date.		
	sibilities of the La		Land Renter			
Land P	arcels selected	as potential fle	lds to receiv	ve manure		
Field	Legal Location	(Check One)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
		Owned Rented	(ecres)	spreading (acrea, exclusive of setbacks)		Time
22	SE 16-4-4E	✓	160	158.8	Spring Wheat	Falt
21	(E 1/2) SW/NW 16-4-4E	✓	160	159.4	Soybeans	Fall
	downer or Land Re			roposed)		
- T	sep this document and					
*	otify the Livestock Oper					
	es to purchase manure pecified below by the Li		per	☐ 1000 gal or ☐ tonne, con	ditional to manure being ap	plied with the method and
			est applications if	agreed to as part of the manual	re application method (belov	w).
ļ	nsibilities of the Li					
] — —	Application Deta		-			
	Time of Application			Summer Fall		
	Application Method	□ Broad	,	Broadcast and incorporate with	in 48 hours	
		☐ Injecti	on 🗆 I	rrigation/Sprinkler		
Applicat		4				
Custom A	: Operator Applicator	Name of a	policator:			
ı	d Manure Application					
The Live	estock Operator: (C	heck where applic	able/proposed	l)		-
will k	een track of these reco	arde, but will not disclo	se them without t	the consent of the Landowner a	and the Land Renter:	
				lable to both the Landowner an		
 	•	-		vailable to both the Landowner	•	
_	alculate the manure app					
		nmendations for plant				
		nmendations for plant	-			
Bacf/Dair	general soil fertility/Hog/Poultry Producer	•	s per the Soil Fe	rtility Guide (Manitoba Agriculti	ure and Food) or the Farm	Practices Guidelines for
	rovide a proof of calibra		oreading equipme	ent;		
			_	pated dates and rates of applica	ation in volume and crop nu	trient (N, P, K);
_				grologist, along with field map(
				downer and the Land Renter, if		

		LIVE	STOC		E SPREADING AG	REEMENT	
Between:	Red River Pulle		Ltd.			reafter referred to as 'L	ivestock Operator
And:	(Please Prin	nt)		(Sight	1 doust He	reafter referred to as:	
Respons	(Please Printing of this agreeme	nt is ofandowne	r or the	and Curtis Cate years, beginnin Land Renter	support of the spread agree ellier who has an agreement g at the above date.		ed River Pullet Farms Ltd.
	arcels selected					Carolina Intentiona	Preferred Application
Field	Legal Location		k One)	Nominal Size (acres)	Area available for spreading	Cropping Intentions	Time
		Owned	Rented	(,	spreading (acres, exclusive of setbacks) 158.8 Spring Wheat		
22	SE 16-4-4E		√	160	158.8	Spring Wheat	Felf
21	(É 1/2) SW/NW 16-4-4E		✓	160	159.4	Soybeans	Fall
will ke will no agreed time as sp will inc Respon:	ecified below by the L corporate manure with sibilities of the L pplication Deta Time of Application Application Method or Operator	any other representation of the nutrient at divestock Opinin 48 hours ivestock	related recordates those a rate of \$ perator, of broade Operator Sprin Broad	ords in his files; se fields will be av per ast applications if or g clast ion		re application method (believe application method application method (believe application method application method (believe application method application method application method (believe application method application method application method application method (believe application method application method application method application method (believe application method application method application method application method application method (believe application method application method application method application method (believe application method application meth	
The Live	y all costs for soil test rry out a manure anal lculate the manure ap the soil test reco	Check whe ords, but will ting and the sysis test an optication rai mmendation ity recommenders in Manito	ere application of the results of the results of the results of the results for each one for plant one for plant one for plant one series	cable/proposed see them without to will be made avail its will be made at field on the basis to nitrogen requires to phosphorus requires as per the Soil Fe	the consent of the Landowner at lable to both the Landowner an vailable to both the Landowner of (check only one): ments, or uirements, or rtility Guide (Menitobe Agriculta	d the Land Renter; and the Land Renter;	Practices Guidelines to
					pated dates and rates of applica	ation in volume and crop n	utrient (N, P, K),
	-				grologist, along with field map(
will pro	ovide a copy of overal	li manure m	anagemen	it plan to the Land	downer and the Land Renter, if	applicable.	



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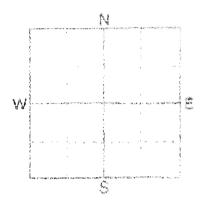
SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME 22 COUNTY

TWP RANGE 45

SECTION 16 QTRSE ACRES 160

PREV. CROP Soybeans



REF # 741444 BOX # LAB # MW137443

em is made access to province of decisions

SUBMITTED FOR:

CURTIS CATELLIER

CARGILL-MORRIS 2 MILE ROAD **BOX 460** MORRIS, MB

Cable Sampled

Date Received 10/29/2013

ROG 1KO

SUBMITTED BY: CA9418

Date Reposted 2/18/2014

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· into-e	14 (b/ac	元 章 200		VIEL	GOAL		YIELD	GOAL		The state of the s	900	0.6946	WATER COLD
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0-24	35 lb/ac	30 (2) 30 (2)	5U G 0	esvec	GUIDELINES	SUGG	ESTED	GUIDELING	5	sug	GESTE	a Charl	Nec
Nicoto Tilliani	}			Cand	/Maint.	-	Bana	Maint.		alphanting participal compo	Ben	6/Mont	grani urbinggran
And Market Street	r company		LB/A	CRE	APPLICATION	- 48/1	CRE	APPLICATO	on	1,3//	icae	APPLIC	ATTON.
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0.24	32 lb/ac		*30	0		60	ø			K:0	1.0	Sa, (Start	
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TON CONTRACTOR AND ADDRESS OF THE PARTY OF T	30.4 ppm		SAZ AVA	3	Band (Trist)	Zn	3	Band (Triz	1)	Zo	g france.	Band (7	read?
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Cascion	7423 ppm	Establish Manager	Mg	0		30 Marin	٥		_	Ne	10	f ************************************	
APPENDING THE PROPERTY OF	34 ppm		1.00			Uma-	intersections.	onnonnu p. , pikajij Na		Lime		Taken V DEED TO MAKE ON	
S-FAN ATTAC	4.9 %	Paragraphic Control of the Control o			-	Bon Excel	Mariga:	% Bas	a 5 a	buratio	ri (Ty	pical Ran	ge)
Cerpenare(CC.d)	10.3 %	274 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	501		uffer pH	Capaci	y	% Ca	Me	Mg	4.10	V-11-	% 14
0-6 6-24	0.48 mmho/cm 0.51 mmho/cm		0·5" \$ 0-24" 8			50.1 me	۹	(65-75) 2/3.3	(15-		1.5	(0-5) (0.3)	(8, 45)

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

Crop 1: * Chloride yield data is firmled for this crop. * Caution: Seed Placed Partitizer Can Cause Injury * Nitrogen le crodited 15 lighter Clis previous gree, Afficiency 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 touts. Crep Removal: #305 × 45 K20 × 28 AGVISE Band/Maintenance guidelines will build P & K test lovels to the medium range over many years and then maintain thom.

তে যে ? Caution: Send Placed Fertilizer Can Caude Injury * Nitrogen is credited 15 like for the previous crop. Nitrogen credits many noed to be adjusted Seand as the Caropa: * Caution: Send Placed Fertilizer Can Caude Injury * Nitrogen is credited to like the previous crop. Nitrogen credits many noed to be adjusted Seand as the Caropa Continues on soyboars এচাই he fleed Whigh head on the salt and Carbonate levels, Crop Removal: P205 = 44 K20 = 75 AGVISE Sand/Maintenance guidelines will boild P & K task ভূপাৰ to the Sealine common the salt and Carbonate levels, Crop Removal: P205 = 44 K20 = 75 AGVISE Sand/Maintenance guidelines will boild P & K task ভূপাৰ to the Sealine common the salt and the maintain them. Soybeans may respond to attrogen on felial testing leas than 60 by/ac, with a limited soybeans himself. Crop Seand and Christian Caropa Caude Injury * Nitrogen is credited 15 libe for the provious crop. Nitrogen continues 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: 9205 a 30 K20 a 23 ACMISSE. East/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.



Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010 3ensen: (320) 843-4109

s	OIL TEST	T REP	DRT	}
FIELD ID	21			
SAMPLE 10	, 51			
FIELD VAN	16			
COUNTY				:
TWP	4		RANGE	4E
SECTION	16	QTR	E1/2 OF	ACRUS

SUBMITTED FOR:	SUBMITTED CARGILL-MORRIS	BY: CA0418	1 8					
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GPS,	MORRIS, MB	R0G 1K0	\ \A=, #	WW71664	Fs			
	, L		1					

PREV. CROPWheat-Spring

Orac Sampkid

Date Received 09/25/2013

pate Reported 10/11/2013

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Coneral Commental Texture is not estimated on high pH solls.

Cop P 1 1 Charded yield data is limited for this crop. * Caution; Seed Placed Fortilizer Can Cause Injury * Many crops may respond to a scarter application of P 多米 cross on high soft tests. Crop Removal: P205 = 45 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the inciding range area assary your and disconsistions show.

		LIVES	TOC	K MANURI	E SPREADING A	GREEMENT	
Between	Red River Pullet Fa	arms Ltd.		Jula	orl	Hereafter referred to as *Li	vestock Operator*
And:	Benoit Catelllar	<u></u>		Signer Der Cald	us	Hereafter referred to as:	3 and Ponter
Date:	cyn Please Pri	<u>I</u>	10	(Signa	•	ES ESTINGWINES OF C	Cand Nation
The dura	tion of this agreeme	nt is of	<u>U</u> :	years, beginning	g at the above date.		
Respon	sibilities of the L	<u>andowner</u>	or the	Land Renter			
Land P	ercels selected	as poten	tiai fie	lds to recelv	e manure		
Field	Legal Location	(Check	One)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
		Owned	Rented	(acres)	spreading (ecres, exclusive of setbacks)		Time
3	NE 3-4-4E	V		160	132.2	Soybeans	Fall
will ke will no agree time as si will in	pacified below by the L corporate menure with asibilities of the L	any other rel rator of the d nutrient at a ivestock Ope iin 48 hours o ivestock (ated reco ates those rate of \$_ rator; f broadca	rds in his files; e fields will be ave per l st applications if	allable for spreading 1000 gal or 1000 gal or 10000 gal	onditional to manure being application method (belo	
Field A	application Deta	ils			,		
	Time of Application Application Method	(☐ Spring ☐ Broad ☐ Injection	cast 🔻 B	ummer Fall roadcast and incorporate wire rigation/Sprinkler	thin 48 hours	
Applicat Livestock Custom A Anticipate	Operator			pplicator:			
will k	ay all costs for soil test	ords, but will r	ot disclos results w	e them without the	ne consent of the Landowner able to both the Landowner a allable to both the Landowner	and the Land Renter,	



Soil Analysis by Advise Luberatories (fattp://www.agvise.com) Northwood: (701) 587-6010

Benson: (320) 843-4109

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	way on the same and the same	RANGE QTR NE	QTR NE ACRES	RANGE 4E VV QTR NE ACRES

SUBMITTED FOR:

BEN CATELLIER

SUBMITTED BY: CA0418 CARGILL-MORRIS 2 MILE ROAD BOX 460 MORRIS, MB **ROG 1KO**

REF C 685944 NW71642 CAB #

Gate Sampled

Date Received 09/25/2013

Date Reserved 19/11/2013

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,	6-74"	0.89 mmho/cm	A Section of the				Спра	CITY	90 Cs	ا مولاقا ا	Ms :	物格	% N3	物书
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Cross 3: 2m Chirolide visid data is firmled for this crop. * Caution: Sood Placed Pertilizer Can Calino Injury * Many crops may respect the extensive semplication of M B. N. seem to high to be tests. Crop Removal: P205 * 45 K20 = 23 AGVISE Band/Maintenance guidelines will build P B. K. tast lovals recommended sealing sealing was and then maintain them.

Crop 2: * Courion: Soud Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P B. N. even on high soil tests. The stake placed development of iron colorous on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P205 * 44 K20 * 75 AGVISE band/ state placed for the salt and carbonate levels. Crop Removal: P205 * 44 K20 * 75 AGVISE band/ state placed for the salt and carbonate levels. Crop Removal: P205 * 44 K20 * 75 AGVISE band/ state placed for the salt and carbonate levels. Crop Removal: P205 * 44 K20 * 75 AGVISE band/ state placed for the salt and carbonate levels. Crop Removal: P205 * 44 K20 * 75 AGVISE band/ state placed for this salt and carbonate placed for this placed for the salt and carbonate placed for the placed for the salt and carbonate placed for the placed for the salt and carbonate placed for the plac

Strop 3: - Caution: heed Placed Fortilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil texts. Crop Magazaki # 20: - 20 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then manyalin them.

Spread Agreement #5 - See supporting agreement #6 with land owner - Pat Huebner

		LIVE	STOC		E SPREADING AG	BREEMENT	
Between:	Red River Pullet Fa	arms Ltd.		mark	D ml He	reafter referred to as "Li	vestock Operator*
	(Please Prin	nt)		(Signa			·
And:	Benoit Catallier			Ben on		ereafter referred to as:	
Date:	Open 10	114		(Signa	sture)	"Landowner" or 🖼	"Land Renter"
The dura	tion of this agreeme	nt is of	0	years, beginnin	g at the above date.		
Respon	sibilities of the L	andowne	r or the	Land Renter			
					ve manure		
Field				Nominal Size	Area available for	Cropping Intentions	Preferred Application
			Rented	(acres)	spreading	'. '	Time
5	NW/SW (N 1/2) 3-4-4E		√	240	214.7	Winter Wheat	Fall
will no agree time as sp will ind	offy the Livestock Ope to purchase manure ecified below by the L corporate manure with sibilities of the L	nutrient at ivestock Opin 48 hours	dates those rate of \$ perator; of broadc	e fields will be av	☐ 1000 gal or ☐ lonne, con		
riejo A	• •		e	- 0			
	Application Method	on				in 48 hours	
			☐ Injact	ion 🗀 I	migation/Sprinkler		
		4					
	•	Ď	Name of	applicator:			
nticipate	d Manure Application	Starting Dat	te:				
he Live	stock Operator: (C	heck whe	re applic	able/proposed)		_
						and the Land Penter	
Sharper of Series (acres) spreading (acres, exclusive of setbecks) 5 NW/SW (N 1/2) 240 214.7 Winter Wheat The Landowner or Land Renter: (Check where applicable/proposed) Will keep this document and any other related records in his files; will notify the Livestock Operator of the dates those fields will be available for spreading agrees to purchase manure nutrient at a rate of \$ per 1000 gall or tonne, conditional to manure being application as specified below by the Livestock Operator; will incorporate manure within 48 hours of broadcast applications if agreed to as part of the manure application method (below) Responsibilities of the Livestock Operator Field Application Details Time of Application Spring Summer Fall							
						and the series restrict;	
eet/Dain	•	•		as per the Soil Fe	rtility Guide (Manitoba Agriculti	ure and Food) or the Farm	Practices Guidelines
				preading equipme	ent;		
	•					ation in valums and crap nu	trient (N, P, K);
	•			_			•
	المعادد كالمار معاد المادانية	• •			• • • •	,	

Spread Agreement #6 - in support of Agreement #5 made with Benoit Catellier

		LIVESTOCK	MANUR	E SPREADING AC	GREEMENT	
Setween:	Red River Pullet Fa	rms Ltd.	Marcel	D gard Ho	ereafter referred to as "L	vestock Operator"
Dotwoon.	(Please Prin		(Signa			
And:	Pat Huebner		Kat 6		ereafter referred to as:	
	. (Please Prin	1),	(Signa		"Landowner" or \square	
Date:	(de 10/1	9		support of the spread agree ellier who has an agreemen		
The duret	tion of this agreemen	nt is of		g at the above date.	a to rain the tario nomin	
Respons	sibilities of the La	indowner or the l	and Renter			
Land P	arcels selected	as potential fiel	ds to receiv	e manure		
Field	Legal Location	(Check One)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
		Owned Rented	(9CF68)	spreading (agres, exclusive of setbacks)		Time
5	NW/SW (N 1/2) 3-4-4E	✓	240	214.7	Winter Wheat	Fall
		1	***		†	
					 	
	downer or Land Re			oposed)		
* ,	tilfy the Livestock Oper	•	•	ailable for spreading		
	•			☐ 1000 gal or ☐ tonne, cor	nditional to manure being a	pplied with the method and
	ecified below by the Li			-	•	
☐ will inc	corporate manure withi	In 48 hours of broadca	st applications if	agreed to as part of the manu	re application method (bek	JW).
Respon	sibilities of the Li	vestock Operato	<u>r</u>			
Field A	pplication Detai	lls				
	Time of Application Application Method	☐ Broad	east 🔻 E	Summer Fall Broadcast and incorporate with	nin 48 hours	
Applicat	or	□ injectio	on U H	rngation/opnnuer		ı
Livestock	Operator	\checkmark				
Custom A	pplicator d Manure Application S					
Amuchate	u Manure Application s	Starting Date				_
The Live	stock Operator: (C	heck where applica	ble/proposed)		
will ke	ep track of these reco	rds, but will not disclos	e them without t	he consent of the Landowner	and the Land Renter,	
				able to both the Landowner er		
				ailable to both the Landowner		
will ca	iculate the manure app	olication rate for each t	ield on the basis	of (check only one):		
	the soil test recon	nmendations for plant	nitrogen requiren	nents, or		
	the soil test recon	nmendations for plant	phosphorus requ	irements, or		
Beet/Dairy	☐ general soil fertilit Hog/Poultry Producer	•	per the Soil Fer	rility Guide (Manitoba Agricult	ure and Food) or the Farm	Practices Guidelines for
III III W	ovide a proof of calibra	ition for the manure sp	reading equipme	ent;		
Will no	thy the Landowner and	d the Land Renter of c	hanges in anticip	ated dates and rates of applic	ation in volume and crop n	utrient (N, P, K);
	-			grologiat, along with field map		observe;
will pr	ovide a copy of overall	manure management	plan to the Land	lowner and the Land Renter, it	f applicable.	



Bull As alysis by Agvise Laboratories Charly (www.agvise.com) Northwood: (701) 587-6010 Benrion: (370) 843-4109

S	OIL TES	T REPOR	T	
FIELD TO	=			1
SAMPLE ID	\sim			ţ
FIELD NAM	Ŀ			1
COUNTY				i
TWP	4	RANGE	4E	
SECTION	3	QTR NW+NS	WACRES.	233
PREV. CROS	d-cloneD9	و		}

SUBMITTED FOR:

BEN CATELLIER

SUBMITTED BY: CA0418 CARGILL-MORRIS

2 MILE ROAD BOX 460 MORRIS, MB

ROG 1KO

RLI 4 669709 LAB # NW64773

80% *

part templed

Date Received 09/20/2013

Date Reported 20/12/2013

The second second second day to compare the second day of											and the second s
			1	st Cro	p Choice	2n	d Cro	p Chalce	31	d Gro	p Cholce
		The second second	GCOM W		t Winter	6	White	-Wienes		Wirest	-Vienter
9-6" 6-24"	19 (b/ac 15 (b/ac	A Comment			D GOA:		YIELO	GQAt		YielC	GCML
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0-24**	34 tb/ac	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				ļ					a a g terri e poggétigo et atrasación co
To the state of th			[15] 500	GESTES	GUIDELINGS	590	GESTER)	COUDECINES	300	GESTED	CARABITARS
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Planten d'e		and the second s	N	158		N	182			206	1
Composidada	mad o6		170.	57	Band *	P2O.,	63	Band +		73	Mac & C
. p-2a ⁻¹	\$2.1b/ac			62	Band *	}		*	1 450	77	Band *
(Critorian		Control of	mineral (14) Transport Transport Transport	ļ	Mano	1,0	69	Bano "			pana :
0-6". 6-2-2"	46 lb/nc) 252 lb/nc		*** CI	} 0		; CI	0			C	;
- e1134		Province Annual Annual br>Annual Annual	F) 5	0		5	D.	dama and	8	C:	! !
Curation (Control of Control of C	1.5 ppm	**************************************	(comp)	D	1		D			\$5.°	:
	0.81 ppm		Zn	3	Band (Trial)	Zn	3	Dane (Trial)	21	þ	Band (Trial)
	10.7 ppm	1 70.00	г.	0		Fv	. 0		the state of		
1Lcporr	1,4 ppm	**************************************	mainsers of the same of					·			\$100 T - 1120
Muspricipanina	0.49 ppm 1062 ppm	Figure 1		٥		Hin	0	P F Management to the second			for the second of a second of
egady error	5655 ppm	The second secon	Cu	2	Band	Co	Z	Sand	i Ku	Я.	#and
Systems			Ma	0		Ма	0		Mg	O	1
Gen Mar	3.9 %	The second secon	time :	Į		Lime			Link		1
Continues Cart	5.0 %			m ministration .		- Acces	manage of a 1 to 14	% Base So	furation	I'rsml	i. .m Bandel
0-6	0.45 mmho/cm	The second secon	େଥି। ୧୯୯ Soll ।	он в	uffer pH :	on Exch Capacit					7
1. 9-24 1. Sunday	0.45 mmho/em;	Carrie	::::::::::::::::::::::::::::::::::::::	i					1		W. Na . W. H
		There was no School Mark St. A.	0 N 8			37.6 me	c ;	75.2 23		3.4	(0 1) (6). 0,6

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

Crop 1. * Caution: Seed Placed Partillior Can Cause Injury * Many crops may respond to a startor application of P & K even on high soil tests. Crop Remarks #205 × 50 K to = 30 AGVISP Rend/Maintenance guidelines will build P & K tost levels to the medium range over many years and then mainten them.

Crop 2: * Caution: Seed Placed Partillior Can Cause Injury * Many crops may respond to a startor application of P & K even on high soil tests. Crop Remarks #205 × 76 K20 + 36 AGVISE Band/Maintenance guidelines will build P & K tost levels to the medium range over many years and short maintenance guidelines will build P & K tost levels to the medium range over many years and short maintenance guidelines will build P & K tost levels to the medium range over many years and short maintenance guidelines will build P & K tost levels to the medium range over many years and short maintenance guidelines will build P & K tost levels to the medium range over many years and short maintenance guidelines will build P & K tost levels to the medium range over many years and short maintenance guidelines will build P & K tost levels to the medium range over many years.

Crep 3: * Castion: Seed Placed Partilizer Can Cause Injury * Many trops may respond to a starter application of P.S. K. even on high suit tests. Crep Removal PROS = 63 KRO = 38 ACVISE Dand/Maintenance quidelines will build P.&. K test levels to the medium range over many years and then examined there.

		LIVESTOC	K MANUR	E SPREADING A	GREEMENT	
Between:	. Red River Pullet Fa	arms Ltd.	Al I	Soul	lereafter referred to as "Li	vestock Operator"
5000000	(Please Prin	nt)	(Signa		iorounio romano de de Li	rootoon operator
And:	Tony Wiens		Em	2	lereafter referred to as:	
	(Please Pnr	74 /	(Signa	ture)	/ "Landowner" or	"Land Renter"
Date:	mouth \$1/	M				
The dura	tion of this agreemer	nt is of _ <u>10</u>	years, beginning	at the above date.		
Respon	sibilities of the La	andowner or the	Land Renter			
Land P	arcels selected	as potential fie	lds to receiv	e manure		
Field	Legal Location	(Check One)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
1		Owned Rented	(acres)	spreading (acres, exclusive of setbacks)		Time
	SE 8-4-6E	1	115	114.7	Grass (Pasture)	Fall
<u> </u>	(W 2/3)	<u> </u>			Olada (Friatoro)	
	:					
İ	ĺ]				
		,			 	
	downer or Land Rea ep this document and a			oposed)		
will no	tify the Livestock Opera	ator of the dates thos	e fields will be ava	ilable for spreading		
			per [🗎 1000 gal or 🔲 tonne, cor	nditional to manure being ap	plied with the method and
	ecified below by the Liv				e e al 10 la	
will inc	corporate manure within	n 48 hours of broadca	ist applications if a	igreed to as part of the manu	re application method (below	v)
Respons	sibilities of the Liv	vestock Operato	ŗ			
Field A	pplication Detai	ls				
	Time of Application			ımmer 💆 Fall		
	Application Method	Broad		oadcast and incorporate with	nin 48 hours	
Applicate	or	☐ Injecti	on L'in	igation/Sprinkler		
Livestock (
Custom Ap						
Anticipated	Manure Application S	tarting Date:				
The Lives	stock Operator: (Ch	neck where applica	able/proposed)			
100				e consent of the Landowner	and the Land Repter	
				ble to both the Landowner ar		
				illable to both the Landowner		
	culate the manure app					
	☐ the soil test recom					
,	A.	mendations for plant				
	i general soil fertility	y recommendations a		lity Guide (Manitoba Agriculti	ure and Food) or the Farm	Practices Guidelines for
-	/Hog/Poultry Producers		readino equinmen	! ·		ļ
20				ted dates and rates of applicated	alion in volume and crop but	rient (N. P. K):
-				rologist, along with field map(
//	•			wner and the Land Renter. if		



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

SOIL TEST REPORT

FIELD ID 1474 SAMPLE ID

FIELD NAME Tony Wiens

COUNTY

TWP

SE8-4-6E RANGE west

ACRES 127

SECTION QTR PREV. CROP Grass/Pasture

SUBMITTED FOR:

Alverick Farms Inc

SUBMITTED BY: EL1911

AGRA-GOLD CONSULTING LTD

CLIFF LOEWEN BOX 156

BLUMENORT, MB

ROA OCO

N W E Ś

REF # 658842 BOX #

LAB# NW41869

Date Sampled 08/22/2013

Date Received 08/26/2013

Date Reported 8/26/2013

Nutrientiin	The Soil	गर्जाहरकातुरकातम	ili	it Cr	op Chole	e	2n	d Cro	p Choic	e	3rd C	rop Cho	olce
0-6"	6 lb/ac	VLow Low Med High	G	ass/F	Pasture								D
6-24"	6 lb/ac	**		YIE	LD GOAL		-	YIELD	GOAL		Y	ELD GOAL	
0-24"	12 lb/ac			4	Tons			0			0		
Nitrate			SUG	GESTI	ED GUIDELI	NES	SUGG	ESTED	GUIDELIN	ES	SUGGEST	ED GUIDI	ELINES
	TO THE STREET AND THE STREET AND THE STREET ASSESSMENT		Ba	ind		2			ı				100
Olsen Phosphorus	55 ppm	******	10/	ACRE	APPLICA	TION	LB/A	COE	APPLICA	rion	LB/ACRE	ACC	CATION
Potassium	175 ppm	******	I	108		HON	N N	CAL	APPLICA		N IN	7974	ICHI IOP
127				0			P ₂ 0s				205		
Chloride			-	-			-	•			205	-	
0-6" 6-24" Sultur		****** ***************	K20	21	Band		K20 CI		- Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andr		20 . Cl	and the second	Montuge or all great place with the
Boron			5	0			5	***************************************	<u> </u>		5		
Zir×.		FILE EN	В	<u> </u>	***************************************		в	***************************************			В		
Iron Billing Billing			Zn				Zn	************			2n		
Manganese			Fe			-	Fe			13	Fe		***************************************
Copper			Mn				Mn				Mex		
Magnesium	***************************************		Cu				Cu				.u		
Calcium			Mg				Mg				4g		
Sodium			Lime				Lime		Connected Add at All Total Accepts #86-16 (1998) A	L	me		***************************************
OrgMatter						Cali	on Exch	2000	% Ba	se Satur	ation (T	ypical Ra	inge)
Carbonate(CCE)	distance		Soil	H	Buffer pH		Capacit		% C a	% Mg	% K	% Na	% H
0-6" 5-24 " Sol. Salts	0.52 mmho/cm 0.32 mmho/cm	*****	0-6" (5-24" (#3*#**********************************					***************************************	

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 = 48 K2O = 180 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Appendix 10

CROP ROTATION TABLE

			1629.5	Total Net Acreage for Manure Application
MASC data - 10 year yield (2003-2013)	bu/acre	1.514	114.7	Нау
MASC data - 10 year yield (2003-2013)	bu/acre	72.8	214.7	Winter Wheat
MASC data - 10 year yield (2003-2013)	bu/acre	48.9	864.8	Spring Wheat
MASC data 10 year yield (2003-2013)	bu/acre	32.1	435.3	Soybeans
Source of Yield Information	Units	Historical Yield	Acreage	Expected Crops in the Rotation
Е	D	С	В	A

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

шÖ

MASC Data - 10 Year Historical Yields (2003 - 2013) for Crop Rotation

Search Summary

Your selected search:

Region(s) Selected: DESALABERRY

Crop(s) Selected: SOYBEANS

Variety(s) Selected: All

Period Selected: 2003 to 2013

This search returned 199 records from the MASC database, summarized below:

Sum of Farm 863 farms

Varieties:

Total Acres: 182,989 acres

Yield per Acre: 32.1 Bushels / acre (0.874 tonnes / acre)

View Raw Data

Search Summary

Your selected search:

Region(s) Selected: DESALABERRY

Crop(s) Selected: RED SPRING WHEAT

Variety(s) Selected: All

Period Selected: 2003 to 2013

This search returned 68 records from the MASC database, summarized below:

Sum of Farm 771 farms

Varieties:

Total Acres: 227,725 acres

Yield per Acre: 48.9 Bushels / acre (1.331 tonnes / acre)

View Raw Data

Search Summary

Your selected search:

Region(s) Selected: DESALABERRY

Crop(s) Selected: WINTER WHEAT

Variety(s) Selected: All

Period Selected: 2003 to 2013

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

Sum of Farm Varieties: 230 farms

Total Acres: 61,733 acres

Yield per Acre: **72.8 Bushels / acre** (1.982 tonnes / acre)

View Raw Data

Search Summary

Your selected search:

Region(s) Selected: HANOVER

Crop(s) Selected: GRASSES

Variety(s) Selected: All

Period Selected: 2003 to 2013

This search returned 55 records from the MASC database, summarized below:

Sum of Farm 145 farms

Varieties:

Total Acres: 8,857 acres

Yield per Acre: 1.514 Tons / acre (1.374 tonnes / acre)

View Raw Data

Land Base Calculator

Operation Name: RED RIVER POR	RIVER PALLET FARMS LAND.										
Livestock Information			Animal	Cycle	Cycles	Output I	Output per head per cycle	Annual Production Nitrogen	oduction gen	Annual Production P ₂ (uction P ₂ O ₅
Species	Туре	Places	Units	(Days)	/ Year	kg N	kg P ₂ O ₅	kg	В	kg	Ы
1 Chickens Pu	Pullets	150000	495	133	2	0.074	0,068	22200	48840	20400	44880
2											
<u>ن</u>											
4									741.77.1177		
5											
o											
7											
8											
9											
10											
		Total AU	495								
Crop Nutrient Removal Information	Removal (lb/ac)	ic)			Bas	Base Total N:		22200	48840	20400	44880
	Nitrogen (N) P ₂ O ₅	2 X P ₂ O ₅		Post	Manur	Post Manure Application N:	ion N:	15540	34188	:	;
 Detailed Rotation (Farm Data) 	86 28	56						Acres	es	Acres	es.
				LAN	ID BA	LAND BASE REQUIRED	RED	2 X P ₂ O ₅ Removal	Removal	1 X P ₂ O ₅ Removal	Removal
Nitrogen Loss from the Barn and Storage								,		,	
1. Fstimated Nilosses	Value (%)			_	Vitroge	Nitrogen (N) based	á	399	9	399	9
	30			Pho	sphoru	Phosphorus (P ₂ O ₅₎ based	ased	8 <u>03</u>	3	1606)6

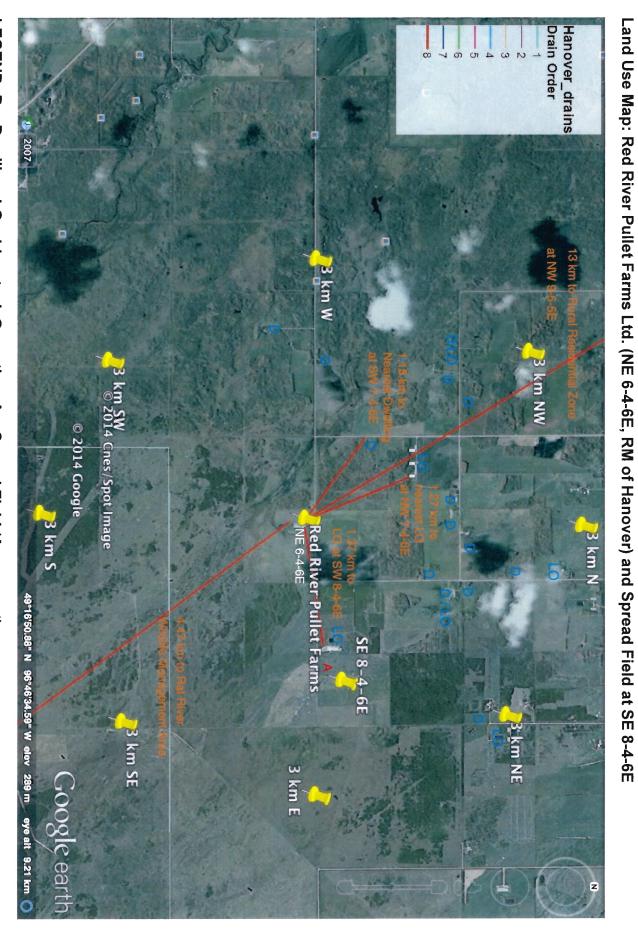
Footnotes

- The nitrogen (N) and phosphorus (expressed as P2O5) land bases provided in the bright yellow boxes are based on nutrient excretion, nutrient removal and N losses during storage. Nutrient removal includes only the quantity of nutrient that is in the harvested portion of the plant and is exported from the field. The land base calculations are not based on nutrient uptake. Nutrient uptake is the total quantity of nutrient taken up by the plant and stored in the roots, leaves and seeds. More information on nutrient removal can be found at http://www.gov.mb.ca/agriculture/soilwater/nutrient/pdf/mmf_manuretillage_factsheet.pdf.
- The N land base assumes zero volatilization losses during field application using best management practices for N conservation. Field N losses from nitrification, denitrification and leaching are also not included
- ω The nutrient excretion values for each livestock category (except sows and turkeys) are adapted from Le Centre de reference en agriculture et agroalimentaire du Quebec - CRAAQ
- 4 The nutrient excretion value for sows is based upon unpublished data for Manitoba
- 5 The nutrient values for turkeys are based upon data from "Farm Practices Guidelines for Poultry Producers in Manitoba, 2000"

Crop Nutrient Removal

Crop Crop Vield Items/ac Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac tons/ac 11.80 34.40 bu/ac 11.80 34.40 tons/ac tons/ac 11.80 1.97 bu/ac 11.80 1.97 bu/ac bu/ac bu/ac 1.04 1.93 bu/ac 12.70 31.20 tons/ac bu/ac wt/ac 1.79 5.02 cwt/ac cwt/ac 1.79 5.02 cwt/ac 1.00 34.20 1.514 tons/ac 114.7 1.1 2.1 1.00 34.20 1.514 tons/ac 114.7 1.1 2.1 1.1 2.1 1.0 2.34 bu/ac bu/ac bu/ac bu/ac 6.7 1.1 2.1 0.69 2.34 bu/ac bu/ac wt/ac 6.7 13.4 0.69 0.32 bu/ac bu/ac 435.3 6.7 13.4 0.69 0.59	85.7	55.9	27.9	1629.5					
Crop Crop Yield Hors/ac Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac tons/ac 11.80 4.40 tons/ac 11.80 4.40 tons/ac 11.80 4.40 tons/ac bu/ac bu/ac 11.80 4.40 1.93 bu/ac bu/ac bu/ac bu/ac 11.80 4.44 0.97 bu/ac bu/ac bu/ac bu/ac 12.70 31.20 bu/ac bu/ac bu/ac bu/ac bu/ac bu/ac bu/ac 1.7 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1 1.1 2.1	10.0	9.8	4.9	214.7	bu/ac	72.8	1.04	0.51	Wheat - Winter
per Unit of Crop Average Crop Unit Acreage Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 Itons/ac Itons/ac Itons/ac Itons/ac 11.80 34.40 Itons/ac Itons/ac Itons/ac Itons/ac 11.93 J.270 Itons/ac Itons/ac Itons/ac Itons/ac 12.70 31.20 Itons/ac Itons/ac Itons/ac Itons/ac 1.39 4.17 Itons/ac Itons/ac Itons/ac Itons/ac 1.00 34.20 1.514 Itons/ac Itons/ac Itons/ac 1.03 3.39 Itons/ac Itons/ac Itons/ac Itons/ac 0.65 2.13 Itons/ac Itons/ac Itons/ac Itons/ac 10.00 34.20 1.514 Itons/ac Itons/ac Itons/ac 0.69 2.34 Itons/ac Itons/ac Itons/ac Itons/ac 0.84 3.87 Itons/ac Itons/ac Itons/ac Itons/ac 0.84<	38.9	30.6	15.3	864.8	bu/ac	48.9	1.50	0.59	Wheat - Spring
Crop Crop Vield Items/reage Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac bu/ac 0.42 0.97 bu/ac 11.80 34.40 tons/ac bu/ac 0.04 1.93 bu/ac 1.04 1.93 bu/ac bu/ac 0.04 0.97 bu/ac 12.70 31.20 tons/ac tons/ac 0.05/ac 0.05/ac <td< td=""><td></td><td></td><td></td><td></td><td>cwt/ac</td><td></td><td>2.80</td><td>1.10</td><td>Sunflower</td></td<>					cwt/ac		2.80	1.10	Sunflower
Crop Crop Average Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac bu/ac bu/ac 11.80 34.40 tons/ac bu/ac 1.04 1.93 bu/ac bu/ac 12.70 31.20 tons/ac bu/ac 1.39 4.17 cwt/ac cwt/ac 1.79 5.02 cwt/ac cwt/ac 0.65 2.13 bu/ac bu/ac 1.00 34.20 1.514 tons/ac 114.7 1.1 2.1 1.03 3.39 cwt/ac bu/ac bu/ac bu/ac cwt/ac 0.69 2.34 bu/ac bu/ac bu/ac bu/ac bu/ac 0.45 1.06 bu/ac bu/ac bu/ac bu/ac bu/ac	33.2	13.4	6.7	435.3	bu/ac	32.1	3.87	0.84	Soybeans
per Unit of Crop per Unit of Crop Average Vield Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac 0.42 0.97 bu/ac 0.042 0.97 bu/ac 0.042 0.97 bu/ac 0.044 1.93 bu/ac 0.044 0.97 bu/ac 0.054 0.097 bu/ac 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 </td <td></td> <td></td> <td></td> <td></td> <td>bu/ac</td> <td></td> <td>1.06</td> <td>0.45</td> <td>Rye</td>					bu/ac		1.06	0.45	Rye
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per Unit of Crop per Unit of Crop Average Vield Unit Vield Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac bu/ac 0.42 0.97 bu/ac 11.80 34.40 tons/ac bu/ac bu/ac 0.044 1.93 bu/ac 10.44 0.97 bu/ac bu/ac bu/ac 0.044 0.97 bu/ac 0.044 0.97 bu/ac 0.044 0.97 bu/ac 0.054 0.97 bu/ac 0.004 0.97 bu/ac 0.004 0.097 bu/ac 0.004 0.097 bu/ac 0.004 0.097 0.004 0.097 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004					bu/ac		2.34	0.69	Peas
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per Unit of Crop per Unit of Crop Average Vield Unit Acreage Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac bu/ac 0.42 0.97 bu/ac 11.80 34.40 tons/ac tons/ac bu/ac 0.44 1.93 bu/ac 10.44 0.97 bu/ac bu/ac bu/ac 0.41 0.97 bu/ac bu/ac 0.41 0.97 bu/ac 0.97					cwt/ac		3.39	1.03	Lentils
per Unit of Crop Per Unit of Crop Average Vield Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac tons/ac 0.42 0.97 bu/ac 0.42 0.97 bu/ac 0.44 0.97 bu/ac 0.65 0.417 cwt/ac cwt/ac 0.65 2.13 bu/ac bu/ac 0.65 2.13 bu/ac 0.65 0.65 2.13 bu/ac 0.65 0.65 2.13 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	3.6	2.1	1.1	114.7	tons/ac	1.514	34.20	10.00	Grass hay
per Unit of Crop per Unit of Crop Average Yield Unit Hons/ac Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac tons/ac tons/ac tons/ac 11.80 34.40 tons/ac tons/ac tons/ac 1.04 1.93 bu/ac 0.44 0.97 bu/ac 12.70 31.20 tons/ac 1.39 4.17 cwt/ac 1.79 5.02 cwt/ac					bu/ac	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.13	0.65	Flax
per Unit of Crop per Unit of Crop Average Yield Unit Hons/ac Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac bu/ac bu/ac bu/ac 11.80 34.40 tons/ac bu/ac bu/ac 1.04 1.93 bu/ac bu/ac 0.44 0.97 bu/ac bu/ac 12.70 31.20 tons/ac cwt/ac 1.39 4.17 cwt/ac					cwt/ac		5.02	1.79	Fababeans
per Unit of Crop Per Unit of Crop Average Vield Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac bu/ac bu/ac 11.80 34.40 tons/ac tons/ac 1.04 1.93 bu/ac 0.44 0.97 bu/ac 12.70 31.20 tons/ac					cwt/ac		4.17	1.39	Dry edible beans
per Unit of Crop per Unit of Crop Average Vield Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac bu/ac bu/ac 11.80 34.40 tons/ac bu/ac 1.04 1.93 bu/ac bu/ac 0.44 0.97 bu/ac bu/ac					tons/ac		31.20	12.70	Corn Silage
per Unit of Crop per Unit of Crop Average Vield Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac bu/ac bu/ac 11.80 34.40 tons/ac bu/ac 1.04 1.93 bu/ac					bu/ac		0.97	0.44	Corn Grain
per Unit of Crop per Unit of Crop Average Vield Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) 13.80 58.00 tons/ac tons/ac tons/ac 0.42 0.97 bu/ac tons/ac 11.80 34.40 tons/ac tons/ac					bu/ac		1.93	1.04	Canola
per Unit of per Unit of Average Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) Crop Yield 13.80 58.00 tons/ac out of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c					tons/ac		34.40	11.80	Barley Silage
Per Unit of Average Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) Crop Yield 58.00 tons/ac					bu/ac		0.97	0.42	Barley Grain
per Unit of Average Unit Acreage P ₂ O ₅ 2(P ₂ O ₅) Crop Yield					tons/ac		58.00	13.80	Alfalfa
per Unit of Average Unit Acreage P ₂ O ₅ 2(P ₂ O ₅)						Yield	Crop	Crop	Crop
Hatchean	Nitrogen (N)	2(P ₂ O ₅)	P ₂ O ₅	Acreage	Unit	Average	per Unit of	per Unit of	
P ₂ O ₄ Removed N Removed Historical	/al	lotal Kemov				Historical	N Removed	P ₂ O ₅ Removed	
		5							

Appendix 12

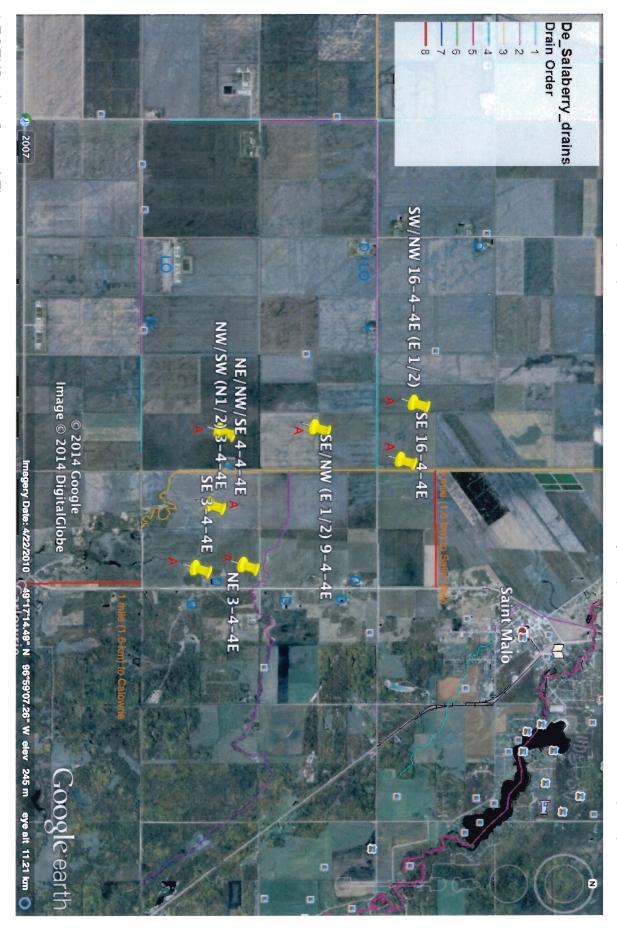


LEGEND: D = Dwelling LO = Livestock Operation A = Spread Field (Agreement)

Appendix 13

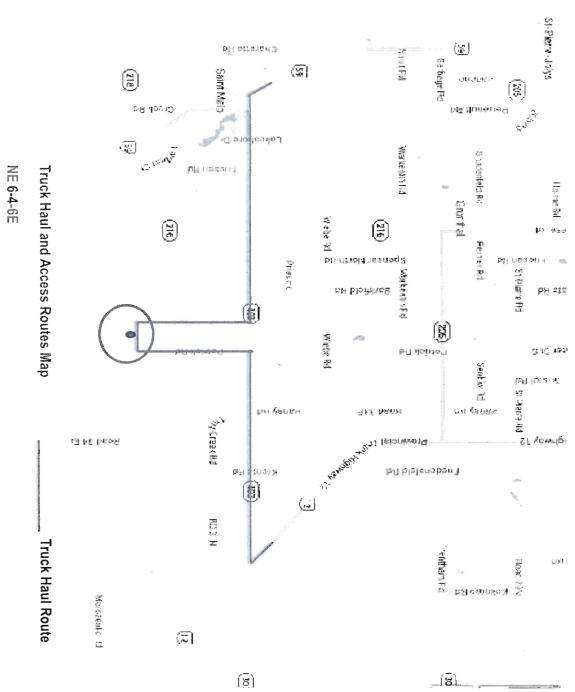
Red River Pullet Farms Ltd. Spread Field Map

NE 3-4-4E, SE 3-4-4E, NW/SW (N ½) 3-4-4E, NE/NW/SE 4-4-4E, SE/NW (E ½) 9-4-4E, SE 16-4-4E, SW/NW (E ½) 16-4-4E



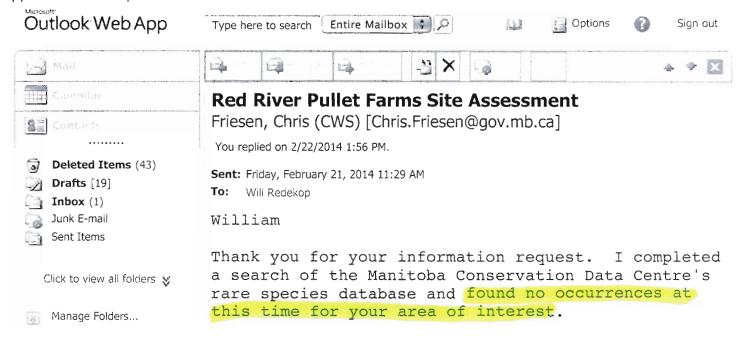
LEGEND: A = Spread Field (Agreement) D = Dwelling Y = Yard (no dwelling) LO = Livestock Operation

Appendix 14 - Truck Haul Routes and Access Points Map



RM of Hanover

Appendix 15 - Response From Conservation Data Centre



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 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 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: February-19-14 11:12 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, February 19, 2014 at 23:11:46

DocumentID: Manitoba Conservation

Project Title: Red River Pullet Farms Site Assessment

Date Needed: 2014/02/28

Name: William Redekop

Company/Organization: Penfor Construction

City: Blumenort

Province/State: MB

Phone: 204-807-8429

Email: wredekop@penforconstruction.com

Project Description: We are preparing a Site Assessment for the setup of a proposed livestock operation with more than 300 animal units and require a Conservation Data Centre Report to accompany this submission.

I understand from the above that the required timeline is tight and would appreciate anything you can do to assist with sending it within this timeframe.

Information Requested: The presence of rare species.

Format Requested: Map by email.

Location: RM of Hanover: NE 6-4-6 E

action: Submit

4 *

Connected to Microsoft Exchange