#### 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 Pianning 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 <u>Community and Regional Planning Regional</u> 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:
Prairie Organic Layer Farms Ltd.
Operation location (project site): Street Address: 20051 Road 30E
Rural Municipality (RM) of Hanover
Legal description: section, township, range or river lot(s)  NW 18-4-6E (W 1/2 and E 1/2 W 200F OF N 400F) and SW 18-4-6E (W 1/2)
Manitoba Premises Identification Number:
Municipal tax roll number(s): NW - 275900.000 and SW - 276200.000
Show the location of the operation (project site) on a location map. (See <u>1.ocation Map</u> for example).
Location Map attached

4.0 Nature of Project					
☐ New operation					
Expansion of existing o	peration				
	s will be replaced or demolished with the will be reused or expanded the second or expanded the will be reused or expanded the will be reused or expanded the will be replaced to the will be replaced or demolished the will be reused or expanded the will be replaced or demolished the will be reasonabled to the will b	ed. If existing buildings will be ded.			
Livestock Area (CLA) will conting 3 additional barns to house 96,	nue to be used. Proposal involves	and corresponding existing Confined s expanding the site by constructing 2 corresponding CLAs), for a total s.			
<b>5.0 Proposed Type and Size</b> State the proposed type and s	_	mal Units Calculation Table.)			
Type of operation	Existing number of	Total Animal Units			
(Column B from Animal	animals	(Column F from Animal			
Units Calculation Table)	(Column C from Animal Units Calculation Table)	Units Calculation Table)			
Layers	32,000 (265.60 AUs)	1,062.4			
Animal Units Calculation Table attached  6.0 Animal Confinement Facilities					
To ensure that it can be built in a way that the environment is protected, a permit is required for construction and expansion of confined livestock areas for operations with 300 Animal Units or more. Permits are required by the Livestock Manure and Mortalities Management Regulation (MR 42/98), under The Environment Act.  Confined Livestock Area: Outdoor seasonal feeding area feedlot not applicable (Refers to both existing & proposed CLA as depicted in the site plan in Appendix 3. Outdoor area will be a scratch area only. All feeding takes places inside.)  Indoor Barn/Animal Housing  Indoor Animal Housing: Darn 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

7.0	Eı	ıvir	onm	ental	F	arm	P	lan	nin	g

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

Do you have an Environmental Farm Plan  yes	no
If so, is it current (completed within past 5 years)  yes	no

#### 8.0 Water

#### Project Sites Unsuitable for Development

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

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

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

will will not

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

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

## Water Source



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

Water source for operation:		
	pipeline (public)	water co-operative
	proposed well	existing well
	river	☐ lake
	dugout (dimensions	s:x

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

### **Source Water Analysis Reports**

Annual livestock source water monitoring analysis reports must be submitted to Manitoba Conservation and Water Stewardship for any operations of 300 Animal Units	or
more.	N/A - existing
If an existing livestock operation of 300 Animal Units or more, have you submitted an annual source water monitoring report for the current calendar year?  yes no	•
Will livestock have direct access to surface water (not including dugouts)? ☐ yes ▼	no
If yes, identify:  Name of the surface water feature:	
List any steps that will be taken to prevent direct access of livestock to the water body.	
	-
Water Requirements	-
Protecting the interests of domestic users and the environment, in addition to exist licensees, is the intended purpose of the water rights licensing scheme.	ing
In order to protect the sustainability of water sources, all operations using more the 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 <i>The Water Rights Act</i>	
For more information on the Water Rights Licensing process, contact the Water Use Licensing Section at (204) 945-3983 in Winnipeg; 1-800-214-6497 toll free.	
Water Use ?	
To calculate the total water use, go to the Water Requirement Calculation Table.	
Maximum daily use: 7,040	
Water Requirement Calculation Table attached	
Groundwater (Contamination Risk Protection)	
Improper storage and handling of manure or mortalities increases the risk of contaminal groundwater. Beneficial management practices (BMP), mitigation measures and	ting

requirements for the permit process reduce this risk. Soil testing, manure management planning and proper engineering, along with construction and management of manure storage structures reduce the risk of contaminating groundwater.

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 Other:		n/a n/a n/a  (Livestock Operator) n/a

#### **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:		
	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 <u>Integrated Watershed Management Plan</u> for the proposed project site, if applicable: <u>Rat Marsh River Integrated Watershed Management Plan</u>

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 <u>Livestock Manure and Mortalities Management Regulation</u>. 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 <u>Manure Production Calculator Table</u>.)

liquid volume: solid weight: 209, 148 ft <sup>3</sup>			
Manure Production Calculator Table attached			
Manure Storage Type and Capacity  The type of storage system used will affect the capacity requirements for the manure			
storage facility or field storage area.  *Field storage used by existing operation to be replaced by proposed Manure Storage Facilities.			
What type of manure storage facility will be used by the operation?  ☐ under-barn concrete ☐ earthen manure storage			
Provide the dimensions of the existing and/or proposed manure storage facilities, if applicable. (See Existing and Proposed Manure Storage Facility Dimensions Table.)			
Existing and Proposed Manure Storage Facility Dimensions Table attached			
Odour Control Measures (project site)  Barns and manure storage facilities can be significant sources of livestock odours. The use of manure storage covers and shelterbelts can reduce this, particularly for neighbours in the vicinity of the operation.			
What odour control measures are you planning to use?  Manure storage cover:  yes  no  Type of cover:  Wood frame building enclosing concrete storage.			
Shelterbelt planting: yes on existing shelterbelt			
Other measures (specify):			
Manure Treatment Under The Environment Act, the director must not issue a permit for the modification, expansion, or construction of a manure storage facility accommodating an increase in the number of animal units for pigs, unless the manure is treated using anaerobic digestion or another environmentally sound treatment that is similar to or better than anaerobic digestion, according to Manitoba Conservation and Water Stewardship.			
Does your proposal include anaerobic digestion or another environmentally sound treatment for manure?			
yes no not applicable			

If yes, please describe Air will be pushed along the manure belts to dry the manure.

#### 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.
(For g	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  (Existing operation is less than 300 AUs)
	Manure application methods and the season in which manure is applied affect odour, nutrient availability, crop response, land base requirements and the risk of water contamination.
	Proposed application method:  broadcast broadcast and incorporation within 48 hours injection (All other spread fields)
	The <u>Livestock Manure and Mortalities Management Regulation</u> 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 not

### Land Available for Manure Application

in the Red River Valley Special Management Area.



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

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

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

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

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

<b>√</b> yes	no

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

# Total suitable area available for manure application

4.138 acres

Manure Application Field Characteristics Table attached

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.

#### 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>).

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 km<sup>2</sup> 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).

	15
In "certain areas" it is Manitoba Conservation and Water Stewardship policy to consider manure storage facility permit if the operation shows it has access to sufficient suitable land to apply manure at a rate equivalent to one times the crop removal rate of phosphological phosphological properties of the crop removal rate of phosphological phosphol	
Is the livestock operation located in "certain areas"?  yes  no	

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

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

Use the <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	3,947 acres
For the long-term sustainability of operations outside of Hanover and La Broquerie	

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

Land Base Calculator attached

#### Land Base Requirement Summary

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

has not been identified
has been identified for two times the crop removal rate of phosphorus (for
operations outside of the RMs of Hanover or La Broquerie)
has been identified for one times the crop removal rate of phosphorus (for operation
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	3,947 acres	acres/hectares (one times crop
removal from table above) may be	required for the long	term environmental
sustainability of the operation.		

#### 10.0 Mortalities (Dead Animal) Disposal

The <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	
A plan for mas	s mortalities is in place.
•	taken in the case of mass mortalities? of the Livestock Manure and Mortalities Management Regulation:
1. Report the situation	on to an environment officer and answer any questions regarding the situation
2. Dispose of the moinstructions.	rtalities according to the environment director's or an environment officer's

#### 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	165.23 acres	160 acres
Minimum site width	1,351 ft.	1,000 ft.
Minimum front yard	249 ft.	164 ft.
Minimum side and rear yard	739 ft / 350 ft.	164 ft. / 164 ft.

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.

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



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

#### Indicate the distance from:

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

to the following land use features (if applicable)	Indicate minimum separation distance required in the zoning bylaw or Provincial Planning Regulation  (Check appropriate box(es)		If land use feature is less than the minimus separation distance			
	☐ a. ☐ b.	<b>▼</b> c. <b>▼</b> d.	Provide actual distance	Provide location or name of feature (e.g. Red River)		
Residence/ dwelling		984 ft.	1,709 ft. (0.52 km)	NW 7-4-6E		
Designated area (non-agricultural)		5,249 ft.	34,935 ft. (10.65 km)	Rural Residential Area NW 9-5-5E		
Surface water		328 ft.	468 ft. 928 ft.	Proposed barn and Confined Livestock Area to Ditch (PR30E) Proposed Manure Storage to Ditch (PR 30E)		
Surface watercourse		328 ft.	468 ft. 928 ft.	Proposed barn and Confined Livestock Area to Ditch (PR30E) Proposed Manure Storage to Ditch (PR 30E)		
Crown land			None in immedia	te area		
Wildlife Management Area			None in immedia 21,924 ft. (6.68 km)	le area Red River Wildlife Management Area		
Livestock operation			2,509 ft. (0.76 km)	NW 7-4-6E		
Other significant features/land uses			n/a			

If Crown Lands are located within one mile, provide coding. Information can be obtained from the Interdepartmental Operations Crown Lands Plans through the <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 <u>Provincial Planning</u> <u>Regulation</u> 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	283 m 240 m	Ditch (PR 30E) 2 Wells (each from nearest
Surface watercourse, sinkhole, spring, or well	Field storage	100 m	200 m >250 m (to be repl	Ditch (PR 30E) Nearest well aced by proposed MSF)
	Composing site	100 m	n/a	
	Confined livestock area	100 m	147 m 100 m	Ditch (PR 30E) Existing Well
	Manure storage facility	100 m	106 m	East Property Line
Property Line	Composing site	100 m	n/a	
	Confined livestock area	100 m	122 m	East Property Line

If any setback dista	inces have not been met,	, please provide explanatio	on below:

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

See Appendices 12 - 12.6

## 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		Number of mainly require a Left or Right Hand		Access onto PTH/PR from site will mainly require a Left or Right Hand Turn Please check one					
Vehicle Type	Provincial Trunk Highway	Provincial Road	Trunk l	vincial Highway TH)		cial Road PR)	Hig	cial Trunk hway PTH)		ncial Road (PR)
	(PTH)	(PR)	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
Truck (half ton)	3 to 4	3 to 4		<b>V</b>	<b>√</b>		<b>√</b>			<b>√</b>
Tractor Trailer	1	1	<b>V</b>			<b>V</b>		<b>V</b>	1	
Other – Specify										

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

For help with mapping, contact your Community and Regional Planning Regional Office.

Truck Haul Routes and Access Points Map attached

### 13.0 Conservation Data Centre Report

A Conservation Data Centre Report must be requested and the response attached to this site assessment. The request may be submitted electronically at: www.gov.mb.ca/conservation/cde

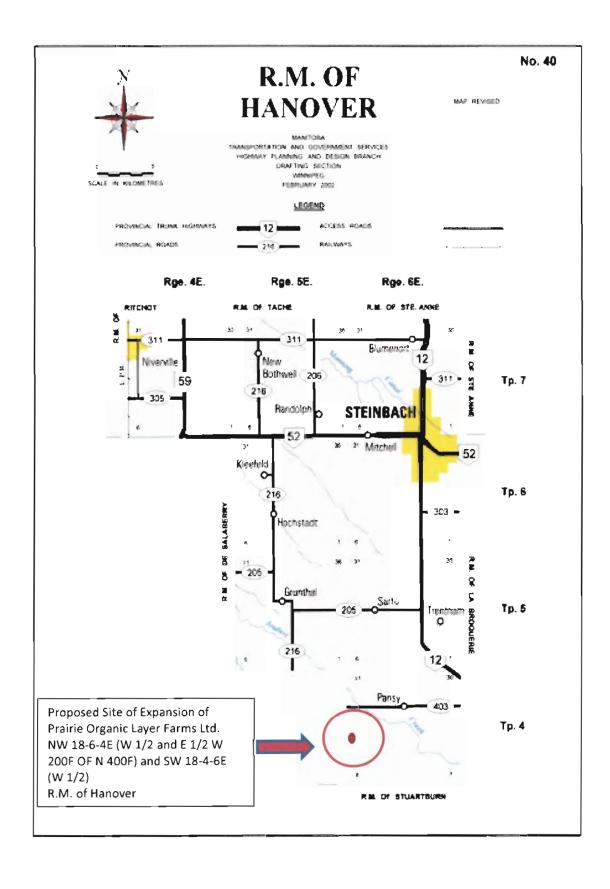
Were rare	species identified	in the Conse	rvation Data C	entre Report?
Yes No				
No				

### 14.0 Supporting Documents

Che	eck off the supporting documents included in this submission:
	Contact Information and Privacy and Publication Notice
V	Location Map (shows proposed project within rural municipality)
	Animal Units Calculation Table
V	Water Requirement Calculation Table
V	Manure Production Calculator Table
	Existing and Proposed Manure Storage Facility Dimensions Tables (if applicable)
	Manure Application Field Characteristics Table
	Crop Rotation Table
<b>√</b>	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)
$\checkmark$	Land Base Calculator
V	Project Site Plan (proposed operation showing current and proposed structures)
V	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)
V	Truck Haul Routes and Access Points Map (with routes and access points on municipal/provincial roads and/or provincial trunk highways)
V	Response from the Conservation Data Centre
V	Other, please specify:
	- Copy of RM of Hanover Conditional Use Application for Hearing
	- DGH Engineering Report on Costs of Hauling Solid Poultry Manure in Manitoba (Appendix 13)

### 15.0 Declaration

I do hereby verify that the information contained in the Site Assessment and all required Supporting Documents is accurate and complete to my knowledge	
Date: September 12, 2014	
Signature: William Redekop	





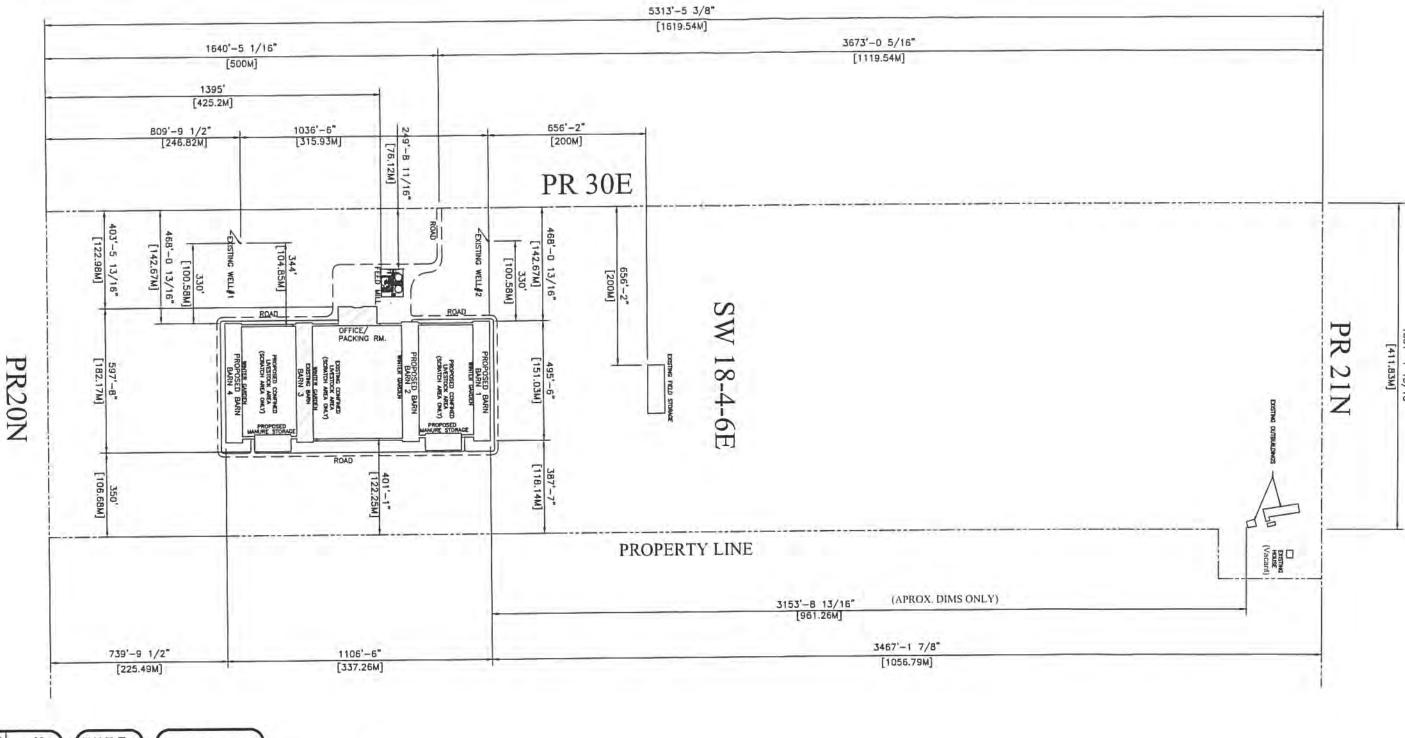
### **Animal Units Calculation Table**

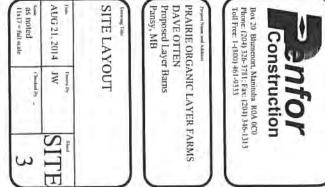
Α	В	С	D	E	F	G
Animal Type	Type of Operation	Existing Number of Animals	Proposed Additional Number of Animals	Animal Units per Head	Total Animal Units	Annual Confinement Period (Days
	Mature cows (lactating and dry) including associated livestock			2	-	
	Mature cows (lactating and dry)			1.35		
	Heifers (0 to 3 months)			0.16	-	
Dalry 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	-	
Beer	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	-	
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			10.0	-	
Chickens	Layers	32,000	96,000	0.0083	1,062.40	
Unickens	Pullets			0.0033	-	
	Broiler breeder pullets			0.0033	-	
	Broiler breeder hens			0.01	-	
	Broilers			10.0	-	
Turkeys	Heavy Toms			0.02	-	
	Heavy Hens			0.01	-	
Horses	Mares			1.333	-	
Shaar	Ewes			0.2	-	
Sheep	Feeder lambs			0.063	-	
Other Liverters:	Туре:				-	
Other Livestock	Туре:				-	
				Total AUs	1,062.40	

#### 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. www.gov.mb.ca/agriculture/contact/agoffices.html

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 Logs for Existing Wells

The wells for this site were drilled on August 20, 2014. We are awaiting the Well Log report from the driller and will forward them as soon as they are available.

# Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	lG/day per animal in summer	IG/day (Imperial gallons per day)
Seel/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	-
370K45888888888888888888888888888888888888	************			
Horses		8	11	
	8888888888888			
Sow (Farrow/wean)		6	.5	-
Dry Sow/Boar			4	-
Feeder			3	-
Nursery (33 lb.)			2	-
Chickers				
Broilers		0.0	)35	
Roasters/Pullets			04	
Layers	128,000		)55	7,040
Breeders		0.	07	
Turkeys				
Turkey Growers		0.	13	-
Turkey Heavies		0.	16	-
Sheep/Goats				
Sheep/Goats				
Ewes/Does			3	-
Lambs/Kids (90 lb.)			.6	
		TOTAL	(IG/day)	7,040

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 I/day/person)

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

Unit Conversions									
Total per day	Total per year	Unit							
7,040	2,569,600	- JG							
32,004	11,681,402	litres							
0.032	12	cubic							
		decametres							
		(dam³)							

Enter this number on page 7 of Application Form.

Conversion Factor: 1 IGPM = 4.546 I/m

		Daily Manure Production							Total Manure Volume
Animal Type (A)	Animal Sub-type (B)	References (C)	Manure Type (D)	Default Manure Production (ft³/animal/day) (E)	Operation Manure Production 1 (ft³/animal/day) (F)	Production Period <sup>2</sup> (Days) (G)	Number of Animals <sup>3</sup> (Capacity) (H)	Total Manure Velume (ਜੋ <sup>3</sup> ) (FxGxH)	for Semi-Solid and Liquid Manure (Imp Gal)
			Semi-Solid <sup>5</sup>	3.5					0.0
i	Free Stall		Solid	3.4				· ·	
			Liquid 5	3.5					0.0
Dairy (milking cows* and		Table 6, pg 59,	Semi-Solid 5	3.6				· -	0.0
associated livestock)	Tie Stall	FPGs for Dairy 1995	Solid	3.5					
		1995	Liquid 5	3.6					0.0
	Laose Housing	-	Solid	3.0					
	Milking Parlour Manure and Washwaler	7	Liquid	0.5					
	Beef cows including associated livestock		Solid	1.2				· ·	
Raef	Backgrounder (200 day)	pg 117, FPGs for Hogs 1998	Solid	0.73					
	Summer pasture / replacement heifers		Solid	0.85					
	Feeder cattle	٦ -	Solid	1.1					
	Sows - farrow to finish (234 - 254 lbs)	MAFRI website. FPGs for Pigs 2007	Líquid	2.3					0.0
	Sows - farrow to wean (up to 11 lbs)		Liquid	0.8					0.0
	Sows - farrow to nursery (51 lbs)		Liquid	1					0.0
	Weanlings, Nursery (11 - 51 lbs)		Liquid	0.1					0.0
	Grower / Finisher (51 - 249 lbs)		Liquid	0.25					0.0
				Yearly Manure Produc	tion				Total Manure Volume
Animal Type	Type of Operation		Default Menure Production (ff <sup>3</sup> /year/bird space)		Operation Manure Production (ft³/year/blrd space)	Production Period <sup>3</sup> (Days)	Number of Birds <sup>3</sup> (Capacity)	Total Manure Volume (ft <sup>3</sup> ) (F/365xGxH)	for Semi-Solid and Liquid Manure (Imp Gal)
	Broilers - floor <sup>6</sup>			1.23					A TO SEE AND SEE AND SEE
	Broiter breeder hens '	7		2.3				-	
	Broiler breeder pullets 6			0.99					
	Roasters - floor 6	7		1.16				-	sin hallow the last
	Layers – çage <sup>6</sup>	Table 3. pg 85,		2.33					0.0
Chickens	Layers - floor '	FPGs for Poultry		1.68	1.68	355	128,000	209,148	
	Layers - solid pack 9	2000							
	Pullets cage *			0.71					0.0
	Pullets - floor 6			0.75				-	- 6
	Pullets solid pack 9								
	Broilers 6	Table 3, pg 85,		2.83					11
Turkeys	Heavy toms 6	FPGs for Paultry		5.58					
	Heavy hens 6	2000		3 32				-	

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

#### Instructions and footnotes:

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

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

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

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

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

<sup>52</sup> 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

<sup>&</sup>lt;sup>2</sup> One-third litter floor, two-thirds slatted floor. Manure and litter removed from barn at 40% moisture content, with a density of 25 lb/ft<sup>3</sup>

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

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

### **Existing and Proposed Manure Storage Facility Dimension Table**

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

	Exi	Storage					
CTV V	Width	Length	Depth	Height (Above Grade)	Slope (H:L)		Capacity (days)
CELL	WIGHT	Lengui	Deptii		Inside	Outside	
Primary	ft	ft	ft	ft			
	ft	ft	ft	ft			
Secondary							
	ft	ft	ft	ft			
Tertiary	_						
Circular	 Tank	Diameter	Height	Depth (Above Grade)		_	
		ft	ft	ft			

Permit/Registration #
-----------------------

	<b>Existing Manure Storage Facility</b>									
			Dime	nsions			Storage			
CELL	Width	Width Length		Height	Slope	e (H:L)	Capacity (days)			
			Depth	(Above Grade)	Inside	Outside				
Primary	ft	ft	ft	ft						
Secondary	ft	ft	ft	ft						
Tertiary	ft	ft	ft	ft						
Circular	Tonk	Diameter	Height	Depth						
Circular	Circular Tank		ft	ft						

Permit/Registration #	 	

If available, indicate the dimensions of any <u>proposed</u> manure storage facility (MSF) that will be used to store manure from the proposed project:

	Pro	Storage					
CELL	Width	Length	Depth	Height (Above	Slope	(H:L)	Capacity (days)
CEEE				Grade)	Inside	Outside	(days)
Primary	70 ft	152 ft	6 ft	ft			250
Secondary	70 ft	152 ft	6 ft	ft			250
Tertiary	ft	ft	ft	ft			
Circular	Tonk	Diameter	Height	Depth			
Circular	I alik	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

The attached Spread Field Characteristics Table and corresponding spread agreements and soil tests that follow in Appendices 9-9.8, address the land requirement, as developed in consultation with MAFRD.

The proposed fields consist of both land owned by Prairie Organic Layer Farms, and land under agreement with seven farmers in the RMs of Hanover, De Salaberry and Franklin. Two of the plots secured with Robert Budey are on rented land, and are therefore also supported by agreements signed with the corresponding landowners.

A number of the proposed spread fields are on land adjacent to or in close proximity to the Prairie Organic Layer Farms operation. Some also extend beyond a distance of 10-miles, the furthest being SE 19-7-4E (belonging to Reg Friesen) at a distance of 22 miles. Phosphorus levels on these plots are low and all parties are very keen to have the nutrients for their land. Analysis conducted by DGH Engineering Ltd. demonstrates the economic viability of transporting solid poultry manure for distances of up to 40 miles (see Appendix 13 for corresponding report), therefore estimated hauling costs associated with using these fields are also economically rational.

Appendix 8
MANURE APPLICATION FIELD CHARACTERISTICS TABLE

	A	В	С	D	E	F	G	н	ı	J	K
Field	Legal Description	Rural Municipality	O/ L/ A	Total Acreage	Setbacks, including features	Net Acreage for Manure Application	Agriculture Capability Class and Subclass	Soil Nitrate (lb/acre) 0-24 inches	Soil Phosphorus (ppm Olsen P) 0-6 inches	Development Plan Designation	Zoning
*	18-4-6E (W 1/2 of W 1/2) (Prairie Organic Layer Farms Ltd.)	RM of Hanover	0	165	Barns, bush	80	3M / 5M / 3P / 2MP	5	12	General Agricultural Area RM of Hanover By-Law 2170	"A" Agriculture Zone RM of Hanover Zoning By-Law 2171
		Prairie Organic Ow	ned			80					
<b>*</b>	NE 19-4-6E (W 1/2) and NW 19-4-6E (E 1/2 of N 1/2) (Ritzco Farms)	RM of Hanover	A	105	Residence, yard	85	3M / 3MI / 5WI	23	49	General Agricultural Area RM of Hanover By-Law 2170	"A" Agriculture Zone RM of Hanover Zoning By-Law 2171
1	NE 12-4-6E (W 1/2) (Ritzco Farms)	RM of Hanover	А	80	None	80	5 W	4	2	General Agricultural Area RM of Hanover By-Law 2170	"A" Agriculture Zone RM of Hanover Zoning By-Law 2171
Ç	NW 19-4-6E (S 1/2) (Ritzco Farms)	RM of Hanover	А	81.1	None	81.1	3M / 5 WI	27	45	General Agricultural Area RM of Hanover By-Law 2170	
ν	LOT 1, BLK 45715 (Ritzco Farms)	RM of Hanover	А	39.24	Order 3 Drain (Joubert Creek), 8m Bush	20	3M / 3MI / 5WI	8	8	General Agricultural Area RM of Hanover By-Law 2170	
,	SE 18-4-6E (Ritzco Farms)	RM of Hanover	А	150	Yard, Seasonal drain (no order assigned), Land within	140	3P / 2MP	4	5	General Agricultural Area RM of Hanover By-Law 2170	
		Ritzco Farms sub-to	otal		NEW CHARLES	406.1					
J	SW 26-03-05E (E side) (Robert Budey)	RM of Franklin	A	40	None	40	3M / 5W	17	8	Rural Policy Area 2 RM of Franklin By-Law No. 10-9	"R2" Rural 2 Zone RM of Franklin Zoning By-Law 14-11
ı	SE 26-03-05E (E 1/2 - S end) (Robert Budey)	RM of Franklin	А	50	None	50		16	3	Rural Policy Area 2 RM of Franklin By-Law No. 10-9	"R2" Rural 2 Zone RM of Franklin Zoning By-Law 14-11
							3M / 5W			2, 22 110. 10 0	

s	SE 26-03-05E (W 1/2 - S end) (Robert Budey)	RM of Franklin	A	50	None	50	3M / 5W	10	3	Rural Policy Area 2 RM of Franklin By-Law No. 10-9	"R2" Rural 2 Zone RM of Franklin Zoning By-Law 14-11
	NE 11-03-05E (W side) (Robert Budey)	RM of Franklin	А	100	None	100	2MP / 3M / 5W	14	7	Rural Policy Area 2 RM of Franklin By-Law No. 10-9	"R2" Rural 2 Zone RM of Franklin Zoning By-Law 14-11
,	SW 14-03-05E (N 1/2 - N end) (Robert Budey)	RM of Franklin	A	40	None	40	2MP / 3M / 5W	12	4	Rural Policy Area 2 RM of Franklin By-Law No. 10-9	"R2" Rural 2 Zone RM of Franklin Zoning By-Law 14-11
V	NE 14-03-05E (N 1/2) (Robert Budey)	RM of Franklin	А	40	None	40	2MP / 5W / 5M	11	3	Rural Policy Area 2 RM of Franklin By-Law No. 10-9	"R2" Rural 2 Zone RM of Franklin Zoning By-Law 14-11
100		Robert Budey sub-t	otal			320					
Ü	SW 19-3-5E (S 1/2 -S end) (Glen Chubey)	RM of Franklin	А	55	None	55	2MP / 3MI / 3M / 5 W	13	25	Rural Policy Area 2 RM of Franklin By-Law No. 10-9	"R2" Rural 2 Zone RM of Franklin Zoning By-Law 14- 11
v	SW 25-3-4E (S 1/2 - NE end) (Glen Chubey)	RM of Franklin	А	25	None	25	3M / 3MI / 5WI	35	25	Rural Policy Area 2 RM of Franklin By-Law No. 10-9	"R2" Rural 2 Zone RM of Franklin Zoning By-Law 14- 11
	SW 25-3-4E (S 1/2 - W end) (Glen Chubey)	RM of Franklin	A	70	None	70	2MP / 3M / 5W	37	21	Rural Policy Area 2 RM of Franklin By-Law No. 10-9	"R2" Rural 2 Zone RM of Franklin Zoning By-Law 14- 11
		Glen Chubey sub-to	otal			150			•		
×	RL 45&46 - Rat River Parish (N of Coulee) (Al Robidoux)	RM of De Salaberry	А	55	Order 3 Drain, 8m	50.7	3N / 2W / 3W	28	3	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
*	SW 11-6-4E (S 1/2) (Al Robidoux)	RM of De Salaberry	A	80	Residence/yard	75	2W / 3W	42	5	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry

	SW 11-6-4E (N ½) (Al Robidoux)	RM of De Salaberry	А	80	Corner of a yard	78.8	2W / 3W	17	9	Agriculture 1 RM of De Salaberry	"A-1" Agriculture 1 Zone
-√										By-Law 2194-04 (amended by Bylaw 2289- 11)	RM of De Salaberry Zoning By-Law 2290-11
•	NE 11-6-4E (S 1/4) (Al Robidoux)	RM of De Salaberry	A	40	Order 1 Drain, Land within	39.7	2W / 3W	31	2	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
V	NW 15-5-4E (N 1/2) (Al Robidoux)	RM of De Salaberry	A	80	Yard	75	2W / 3W	18	8	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
V	SW 22-5-4E (S 1/2) (Al Robidoux)	RM of De Salaberry	A	80	None	80	2W / 3W	23	6	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
Į.	SE 22-5-4E (S 1/2) (Al Robidoux)	RM of De Salaberry	A	80	None	80	2W /3W	38	5	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
د_	SW 1-6-3E (Al Robidoux)	RM of De Salaberry	A	115	None	115	3W	75	23	Agriculture 2 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-2" Agriculture 2 Zone RM of De Salaberry Zoning By-Law 2290-11
Y	SW & NW 1-6-3E (S 1/2) (Al Robidoux)	RM of De Salaberry	A	115	None	115	3W	21	16	Agriculture 2 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-2" Agriculture 2 Zone RM of De Salaberry Zoning By-Law 2290-11
		Al Robidoux sub-to	tal			709.2					
<b>,</b>	SE/SW/NE/NW 18-6-4E (Martin Reutter)	RM of De Salaberry	А	375	Order 1 Drain, Land within	374.5	2W / 3W	28	10	Agriculture 2 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289-	"A-2" Agriculture 2 Zone RM of De Salaberry Zoning By-Law

										11)	2290-11
V	NW 7-6-4E (Martin Reutter)	RM of De Salaberry	А	95	Order 2 Drain, Land within	94	2W / 3W	30	15	Agriculture 2 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-2" Agriculture 2 Zone RM of De Salaberry Zoning By-Law 2290-11
J	NE 7-6-4E (Martin Reutter)	RM of De Salaberry	А	115	None	115	2W / 3W	52	12	Agriculture 2 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-2" Agriculture 2 Zone RM of De Salaberry
~	SW 7-6-4E (Martin Reutter)	RM of De Salaberry	A	135	Order 2 Drain, Land within	133.5	2W / 3W	35	13	Agriculture 2 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-2" Agriculture 2 Zone RM of De Salaberry Zoning By-Law 2290-11
	SE 7-6-4E (Martin Reutter)	RM of De Salaberry	A	195	Order 2 Drain, Land within	194.7	2W / 3W	51	14	Agriculture 2 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-2" Agriculture 2 Zone RM of De Salaberry Zoning By-Law 2290-11
V	RL 14, 15, 16 Rat River Parish (8-6-4E) (Martin Reutter)	RM of De Salaberry	A	40	Order 5 Drain (Rat River) however wooded area with >20 m buffer excluded from field, so no setback calculated.	40	2W / 3W	35	21	Limited Agriculture RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"LA" Limited Agriculture Zone RM of De Salaberry Zoning By-Law 2290-11
		Martin Reutter sub-t	total			951.7					
	SE 15-5-4E (E 1/2) (Rene Peloquin)	RM of De Salaberry	A	80	Yard	66	2W / 3W	34	12	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
V	SW 14-5-4E (N side) (Rene Peloquin)	RM of De Salaberry	A	100	Bush	73	2W / 3W	29	5	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289-	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11

V	NW/NE 15-5-4E (S 1/2) (Rene Peloquin)	RM of De Salaberry	A	160	None	160	2W / 1 / 3W	31	5	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
V	NE 15-5-4E (N 1/2) (Rene Peloquin)	RM of De Salaberry	A	80	None	80	2W / 3W	50	3	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
V	SW 22-5-4E (N 1/2) (Rene Peloquin)	RM of De Salaberry	A	80	None	80	2W / 1 / 5W	15	9	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
V	SE 22-5-4E (N 1/2) (Rene Peloquin)	RM of De Salaberry	A	80	None	80	2W / 3W	23	7	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289-	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
V	SW 23-5-4E (N 1/2) (Rene Peloquin)	RM of De Salaberry	A	80	None	80	3W / 2W	39	12	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
V	NW 27-5-4E (Rene Peloquin)	RM of De Salaberry	A	100	Residence and Yard	92	2W / 3W	20	6	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
√	NE 28-5-4E (Rene Peloquin)	RM of De Salaberry	A	55	Order 5 Drain (Rat River), 24m	50.7	2W / 3W	28	3	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
<i>y</i>	RL 44 - Rat River Parish (N end) (Rene Peloquin)	RM of De Salaberry	A	80		66	2W / 3W / 3N	23	6	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289-	"A-1" Agriculture 1 Zone RM of De Salaberry

		Rene Peloquin su total	b-			827.7					
1	RL 19 & 20, Parish of Rat River (Reg Friesen)	RM of De Salaberry	A	310	8m (both sides) - Order 3 Drain; Yard (no dwelling)	305	2W / 3W	43	10	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
8	SE 32-6-4E (Reg Friesen)	RM of De Salaberry	А	80	None	80	2W	83	35	Agriculture 1 RM of De Salaberry By-Law 2194-04 (amended by Bylaw 2289- 11)	"A-1" Agriculture 1 Zone RM of De Salaberry Zoning By-Law 2290-11
\	NE/NW 8-7-4E (south end) (Reg Friesen)	RM of Hanover	Α	160	Land within - Order 1 Drain; Dwelling	155	2W	24	13	General Agricultural Area RM of Hanover By-Law 2170	"A" Agriculture Zone RM of Hanover Zoning By-Law 2171
	SE 19-7-4E (Reg Friesen)	RM of Hanover	Α	160	Dwelling (unoccupied) & Airfield	153	2W	29	14	Rural Area RM of Hanover	"R" Rural Zone RM of Hanover Zoning By-Law 2171
		Reg Friesen sub-to	tal			693					ENTER IS IN

Total Net Acreage for 4,138 acres
Manure Application:

- A. Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish).
- B. Identify the Rural Municipality in which the parcel is located.
- C. Indicate how the land has been secured for manure application: O Own / L Lease / A Agreement
- D. Enter the total acreage for the parcel.
- E. Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (e.g. 8m, Order 3 drain).
- F. Enter the net long-term acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils.
- G. Enter the agriculture capability class and subclass ratings for the acreage available for manure application.
- H. Provide soil test results for nitrate-N in lb/ac at the 0-24 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing laboratory.
- I. Provide soil test results for phosphorus ppm Olsen P at 0-6 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing laboratory.
- J. Please indicate the Development Plan and its by-law number in addition to the map designation for each field K. Please indicate the Zoning By-law and its by-law number in addition to the zoning for each field

## Appendix 9

# Manure Spread Fields, Spreading Agreements, and Soil Tests

- √ 9.1 Prairie Organic Layer Farms Owned Spread Field Soil Test
- / 9.2 Ritzco Farms Spread Field Agreements and Soil Tests
- √ 9.3 Robert Budey Spread Field Agreements and Soil Tests
- √9.4 Glen Chubey Spread Field Agreements and Soil Tests
- ≥ 9.5 Al Robidoux Spread Field Agreements and Soil Tests
- 9.6 Martin Reutter Spread Field Agreements and Soil Tests
- √9.7 Rene Peloquin Spread Field Agreements and Soil Tests
- <sup>∨</sup>9.8 Reg Friesen Spread Field Agreements and Soil Tests



## **SOIL TEST REPORT**

FIELD ID 18-4-6E SAMPLE ID 14041441

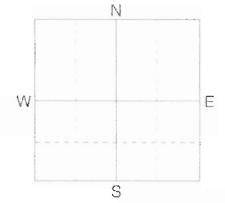
FIELD NAME

COUNTY TWP

4-6E RANGE

> QTR **18** ACRES **165**

SECTION PREV. CROP



SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION

2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB ROA 1EO REF # 14041441 BOX #

LAB # NW22694

SUBMITTED FOR:

KEVIN DUDDRIDGE

PRAIRIE DRGANIC

LAYER FARMS LTD.

Date Sampled 05/09/2014

Date Received 05/13/2014

Date Reported 5/15/2014

Nutrient In	The Soil	Interpretation	1st Cr	op Choice	е	Zni	d Cro	p Choice	-	rd Cr	op Cho	ice
0-6" 6-24"	2 lb/ac 3 lb/ac		YIE	LD GOAL		Variation and Assay	YIELD	GOAL		YIEL	D GOAL	PANNEN A MARKATAN AND A
0-24	3 10/ 20			0			0			(	)	
0-24"	5 lb/ac	To the state of th	SUGGEST	ED GUIDELIN	IES	sugg	ESTED	GUIDELINES	SU	GGESTE	D GUIDE	LINES
Nytrate			LB/ACRE	APPLICA	TION	LB/A	CRE	APPLICATIO	N L8	/ACRE	APPLI	CATION
Olsen	12 nom	****	N			N			N			
Phosphorus	12 ppm		P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>	Asim.		P <sub>2</sub> O <sub>2</sub>		1	
Potassium	50 ppm	******	K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> O		111111111111111111111111111111111111111	
C hloride			CI	TTTT has no hasharine CTNS SCENE (\$4.000 CTNS SCENE	H. ST. Commence	CI			CI			
0-6" 6-24"		*********	s			S	710101414		5			
Sulfur			В			В			В			
Boron	0.3 ppm	****	Zn			Zn	**********		Zn			overano de la constanta
Zinc	1.65 ppm	***********	211			211			_			Accessed to the William Co. 1979
Iron	33.0 ppm	*************	Fe			Fe			Fe			
Manganese	1.5 ppm	*****	Mn			Mn	anger of any other parts of any		Mn		_	
Copper	0.3 ppm	*****				_	10,777		-	1		
Magnesium	181 ppm		Си		MC0701704704040477	Cu		-	Cn			
	and the second s		Mg			Mg			Mg		-	
Calcium	1208 ppm	*=+******	Lime			Lime			Lime			
Sadium	17 ppm	**					THE STREET			1		
Org.Matter	1.3 %	****	Soil pH	Buffer pH		on Exch			Saturat	·		1
Carbonate(CCE)	The second section of the second seco					Capacit	У	% Ca	% Mg	% K	% Na	% H
0-6" 6-24"	0.08 mmho/cm 0.09 mmho/cm	1	0-6" <b>7.6</b> 6-24" <b>8.3</b>			7.8 med	9	(65-75) <b>77.9</b>	(15-20) <b>19.5</b>	(1-7) <b>1.7</b>	(0·5) <b>1.0</b>	(0-5)

General Comments: Sand (CEC range = 0 to 10) (Coarse)

Appendix 9.2

		LIVESTO	CK MANUF	RE SPREADING A	GREEMENT	
Retweet	n. Prairie Organic Lay		1 tul	$M \longrightarrow 3$		1 inactors Character
U U U U U	(Please Prin		(Slai	nature)	Chaute Lietter to ac.	Thesion obeinion
And	Ritzco Farms Inc.		XIII	MADINOR H	legeafter referred to as:	
	(Please Prir	nt)	(Sign	nature)	Landowner or [	☐ "Land Renter"
Date:						
		_				
				-		
			•			
Fleld	Legal Location	(Check One)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
	Please Print    Signature    Please Print    Please Prin					
			105	85	Grass	Fall
	BIID INVV 13-4 OC IC.	1/2 OI )A 1/2)	+	,	~	
	<u> </u>				<u></u>	DA
	<u> </u>					1
		-				
		- (6) -1 -1-	A 11-14			
The Land	downer or Land Ken	nter; (Check wha	re applicable/pr	oposed)		
<i>*</i>	•	•	-	-Slobio For enreading		
_	,				e principal to manure being a	has hadram add ditius batter
time as sp	ecified below by the Liv	vestock Operator,	,,po.	Li 1000 gas bi Li positios von	Autorian o manare pend of	Shied win the memor one
	-		cast applications if	agreed to as part of the manur	e application method (belo	w).
Respons	sibilities of the Li	vestock Operat	or			
Field A	Between: Právis Organic Layer Farms Ltd. (Press Print)  And Filizzo Farms Inc. (Press Print)  And Filizzo Farms Inc. (Press Print)  Date:  The duration of this agreement is of					
	Time of Application			Summer Fall		
	And Filtzo Farms Inc.  (Flease Parid)  (Flease					
Anlingte		□ Inject	tion 🗆 Ir	rigation/Sprinkler		
	etween: Prairie Organic Layer Farms Ltd (Please Parts)  All Prize Farms Inc. (Please Parts)  All Perpatitive of the Landowner or the Land Renter  and Parcels selected as potential fields to receive manure  Field Legal Location (Check One) Morninal Size Special S					
Custom Ap	pplicator [		applicator:			
The Lives	eteck Onerator: ICh	ook where applic	ble/nronnsed	<u> </u>		-
AT.						
					and the Land Renter;	
i	<b>A</b>					
7		•	-			~
Beef/Dairy/	/Hog/Poultry Producers	in Manitoba series		•	e and Food) or the Farm	Practices Guidelines for
-	•	,	,			
	Prairie Organic Layer Farms Ltd   (Piese Print)   (Piese Pri					
₽/		revise Organic Layer Farms Ltd  (Please Perd)  (Predered Application  Time  (Predered Appli				
will prov	vide a copy of overall m	lanure managemen	t plan to the Lando	wner and the Land Renter, if a	pplicable	

	LIVE	STOC	K MANUR	RESPREADING A	GREEMENT							
Between: Prairie Organic Layer Farms Ltd. Hereafter referred to as "Livestock Operator"												
(Please Prin	11)		Sign	nature)								
And: Ritzco Farms Inc.			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<i>UCIDICIGIO</i> H	lereafter referred to as:							
(Please Prin	11)		(Sign	ature)	Landowner or C	] "Land Renter"						
Date:												
The duration of this agreemen	nt is of _		years, beginnir	ng at the above date.								
Responsibilities of the La	<u>andowne</u>	or the	Land Renter									
Land Parcels selected	as pote	ntial fie	lds to recei	ve manure								
Field Legal Location	(Chec	k Qne)	Nominal Size	Area available for	Cropping Intentions	Preferred Application						
	Owned	Rented	(acres)	spreading (acres, exclusive of setbacks)		Timé						
NE 12-4-6E (W 1/2)	1		80	80	Grass	Fall						
NW 19-4-6E (S 1/2)	<b>V</b>		61.1	81.1	Grass	Fall						
LOT 1, BUK 45715 (NW-30-04-06E)	<b>V</b>		39 24	20	Grass	Fali						
\$E 18-4-6E	1		150	140	Gress	Fall						
will notify the Livestock Open												
will notify the Livestock Oper agrees to purchase manure in time as specified below by the Lin will incorporate manure within Responsibilities of the Lin	nutrient at a vestock Op n 48 hours	a rate of \$ _ erator; of broadca	st applications if	☐ 1000 gal or ☐ tonne, cor								
agrees to purchase manure time as specified below by the Liu will incorporate manure within	nutrient at a vestock Op n 48 hours vestock	a rate of \$ _ erator; of broadca	st applications if	☐ 1000 gal or ☐ tonne, cor								
□ agrees to purchase manure in time as specified below by the Line will incorporate manure within Responsibilities of the Line Field Application Detail Time of Application Application Method	nutrient at a vestock Op n 48 hours vestock	a rate of \$ _ erator; of broadca	per st applications if	☐ 1000 gal or ☐ tonne, cor	re application method (belo							
agrees to purchase manure in time as specified below by the Line as specified below by the Line will incorporate manure within Responsibilities of the Line Field Application Detail Time of Application Application Method  Applicator Livestock Operator Custom Applicator	nutrient et a vestock Op n 48 hours vestock	a rate of \$_ perator; of broadca: Operator  Spring Broadc  Injection	per st applications if   Cast	☐ 1000 gal or ☐ tonne, cor agreed to as part of the manu Summer Fall Broadcast and incorporate with	re application method (belo							
agrees to purchase manure ritime as specified below by the Line as specified below by the Line will incorporate manure within Responsibilities of the Line Field Application Detail Time of Application Application Method  Applicator Livestock Operator	nutrient et a vestock Op n 48 hours vestock	a rate of \$_ perator; of broadca: Operator  Spring Broadc  Injection	per st applications if   Cast	☐ 1000 gal or ☐ tonne, cor agreed to as part of the manu Summer Fall Broadcast and incorporate with	re application method (belo							
agrees to purchase manure retime as specified below by the Line will incorporate manure within Responsibilities of the Line Field Application Detail  Time of Application Detail  Time of Application Method  Applicator Livestock Operator Custom Applicator Anticipated Manure Application S  The Livestock Operator: (Chewill keep track of these record will pay all costs for soil testing will carry out a manure analysis will calculate the manure application soil test record the soil test record	nutrient at a vestock Op n 48 hours vestock Is n Is	a rate of \$_ perator; of broadca: Operator  Spring Broadca: Injection Name of applica not disclose results with the results with the results of the results	st applications if  cast              cast            cast            cast          cast          cast          cast          cast          cast          cast          cast          cast          cast          cast          cast          cast          cast          cast          cast          cast        cast        cast        cast        cast        cast        cast        cast        cast        cast        cast        cast        cast        cast        cast	agreed to as part of the manual summer Fall Broadcast and incorporate with trigation/Sprinkler  The consent of the Landowner and tailable to both the Landowner and tailable to both the Landowner of (check only one): Thents, or triging a consent of the consent of the consent of the landowner and the consent of the consent of the landowner of the landown	and the Land Renter;	Practices Guidelines for trient (N, P, K);						



SUBMITTED FOR:

## **SOIL TEST REPORT**

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 4-6E RANGE

SECTION 19 QTR NE ACRES 105

PREV. CROP

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB ROA 1EO

W

REF # 14041448 BOX # 0

LAB # **NW35695** 

Date Sampled 07/25/2014

RITZCO FARMS

Date Received 07/29/2014

Date Reported 7/30/2014

Nutrient	In The Soil	Interpretation	1st C	rop Choice	е	2nc	I Cro	p Choice		3rd Cr	op Cho	ice
0-	6" 11 lb/a	VLow Low Med High	YI	ELD GOAL			YIELD	GOAL		YIE	LD GOAL	
6-2	4" 12 lb/a	C ****	- Dooth when the control of the cont	0			0				0	
0-2-	4" 23 lb/a	C C C C C C C C C C C C C C C C C C C	SUGGES	TED GUIDELIN	NES	SUGG	ESTED	GUIDELINE	SI SI	JGGESTE	D GUIDE	LINES
Nitrale		CONTRACTOR OF THE CONTRACTOR O	LB/ACRE	APPLICA	TION	LB/AC	CRE	APPLICATI	ON L	B/ACRE	APPLI	CATION
Olse	en 49 ppn	1 *****	N			N			N			
Phosphorus			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> C	5		
Potassium	55 ppn	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	K₂O			K <sub>2</sub> O			K <sub>2</sub> (	)		
Chloride			CI	ADDRESS NAS SAMOLA		CI			CI			
0- 6-2		C ****************	5			S			S			
Sulfur			В	ļ	-	В			В			
Boron	0.8 ppn		Zn			Zn			Zr			
Zinç	6.58 ppn											
Iron	52.6 ppn	1 *****	Fe		and the second	Fe			Fe			
Manganese	2.5 ppn		Mn			Mn			Mr			
Copper	2.01 ppn	1						he lett an Hellet Herrican				
Magnesium	720 ppn		Cu			Cu			Cu			
Calcium	4926 ppn	1 ****				Mg			Mg			A
Sodium	47 ррп	7	Lime			Lime			Lim	e		ng ac
Org.Matter	3.4 %	0 *****			Catio	n Exch	ange	% Base	Satura	tion (Ty	pical Rai	nge)
Carbonale(CCE)			Soil pH	Buffer pH		Capacity	y	% Ca	% Mg	% K	% Na	% н
0-0 6-2			0-6" <b>8.1</b> 6-24" <b>8.4</b>		3	1.0 me	q	(65-75) <b>79.5</b>	(15-20) <b>19.4</b>	(1-7) <b>0.5</b>	(0-5) <b>0.7</b>	(0-5)



#### **SOIL TEST REPORT**

FIELD ID NE 12-4-6e SAMPLE ID **14041445** 

FIELD NAME COUNTY

TWP

RANGE 6e

SECTION NE QTR 12 ACRES 80

PREV. CROP

SUBMITTED BY: PR2421

14041445 BOX #

S

0

E

NW22690 LAB#

W

REF #

SUBMITTED FOR:

KEVIN DUDDRIDGE

2 MI SOUTH ON 59

BOX 309 NIVERVILLE, MB

PRAIRIE SKY AVIATION

**ROA 1EO** 

Date Sampled 05/09/2014

Date Received **05/13/2014** 

Date Reported 7/15/2014

Nutrient Ir	The Soil	Interpretation	1st €	rop Choic	е	2n	d Cro	p Choice		3rd Ci	op Cho	ice
0-6"	1 lb/ac	VLow Law Med High	IY	ELD GOAL			YIELD	GOAL		YIE	LD GOAL	
6-24"	3 lb/ac			0			0				O	
0-24''	4 lb/ac		SUGGES	TED GUIDEUI	NES	SUGG	ESTED	GUIDELINES	s su	GGEST	D GUIDE	LINES
Nitrate			LB/ACRI	E APPLICA	TION	LB/A	CRE	APPLICATIO	ON LE	/ACRE	АРРШ	CATION
Olsen	2 ppm	•••	N			Ν	.,		N			
Phosphorus			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O	5		
Potassium	58 ppm	AF#*##	K <sub>2</sub> O			K <sub>2</sub> O	A CONTRACTOR OF THE CONTRACTOR		K <sub>2</sub> C			And the state of t
Chloride			СІ			СІ			CI			
0-6" 6-24"		*****	s			s			S			
Sulfur			В		-	В			В			
Boron	0.4 ppm	*****	_			_		MINISTER DANGE OF STREET			-	
Zinc	0.40 ppm	*****	Zn			Zn	****		Zn			energia de la composición dela composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición de la composición dela composición de la composición dela composición de la composición dela composición dela compo
Iron	51.5 ppm	*****	Fe			Fe			Fe			
Manganese	4.7 ppm	******	Mo			Mo			Mn			
Copper	0.52 ppm	*****			NAMES AND ADDRESS OF THE OWNER, WHEN THE PERSON OF THE PER							***************************************
Magnesium	556 ppm	************	Cu			Cu			Cu			
			Mg			Mg			Mg			
Calcium	3799 ppm	*********	Lime			Lime			Lime		1	
Sodium	20 ppm	***	Line			Line						
Org.Matter	3.1 %	*****	Soil pH	Buffer pH	Catio	п Exch	ange	% Base	Saturat	ion (Ty	pical Rai	nge)
Carbonate(CCE)			Soil pH	ьитег рн	С	apacit	У	% Ca	% Mg	% K	% Na	% H
0-6" 6-24" Sol. Salts	0.18 mmho/cm 0.14 mmho/cm	:	0-6" <b>8.0</b> 6-24" <b>8.3</b>		2:	3.9 me	q	(65-75) <b>79.6</b>	(15-20) <b>19.4</b>	(1-7) <b>0.6</b>	(0-5) <b>0.4</b>	(0-5)



SUBMITTED FOR:

#### **SOIL TEST REPORT**

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 4-6E RANGE

SECTION 19 QTR NW ACRES 80

PREV. CROP



SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

REF # 14041447 BOX #

LAB# NW35696

W

Date Reported 7/30/2014

Ε

Date Sampled 07/25/2014

RITZCO FARMS

Date Received **07/29/2014** 

Nutrient Ir	The Soil	Interpretation	15	t Crop	Choice		2nc	J Cro	p Choice		3rd Cr	op Choi	ice
0-6"	9 lb/ac	VLow Low Med High		YIELD	GOAL			YIELD	GOAL		Y1E	LD GOAL	
6-24"	18 lb/ac	****	Colombia de de 10-272 em	0				0				0	
0-24"	27 lb/ac		Suga	SESTED	GUIDELIN	ES	SUGG	ESTED	GUIDELINES	SI	GGESTI	ED GUIDEL	INES
Nitrale			LB/A	CRE	APPLIC AT	TION	L8/A	CRE	APPLIC ATIO	Ņ LE	ACRE	APPLIC	CATION
Olsen	45 ppm	******	N				N		I R. E. F. F. F. Gardenson	Ŋ		The state of the s	J
Phosphorus			P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			P20	5		
Potassium	62 ppm	*****	K <sub>2</sub> O				K <sub>2</sub> O	monana day // **	A THE PROPERTY OF THE PARTY OF	K <sub>2</sub> C			
Chloride			C1				CI			CI			
0-6" 6-24"	28 lb/ac 48 lb/ac		5				s			S			
Selfor			В				В			B			
Boron			Zn				Zn			Zn			
Zinc	8.04 ppm	************							Annual and				
Iron	55.0 ppm	******************	Fe	The state of the s			Fe			Fe			
Manganese	3.0 ppm		Ma				Mn			Mr.			
Copper	2.29 ppm	**************************************	Cu				Cu			Cu	- Managan Mary		The second second second
Magnesium	722 ppm	i de la companya de l	Mg		70.70		Mg			IMe			111111111111111111111111111111111111111
Calcium	\$085 ppm	******************								**************************************			
Sodium	38 ppm	****	Lime		2.000		Lime			Lim	e		
OngiMatter	4.5 %	INCOMES THE PROPERTY OF THE PR			-	Catio	n Exch	ange	% Base	Satura	ion (Ty	pical Rar	nge)
Carbonate(CCE)			Soil p	эн Ви	ffer pH	C	apacit	у	% Ca	% Mg	% K	% Na	% н
0-6" 6-24" Sol. Salts	0.3 mmho/cm 0.18 mmho/cm		0-6- <b>8</b> 6-24" <b>8</b>			31	1.8 me	q	(65-75) <b>80.0</b>	(15-20) <b>18.9</b>	(1-7) <b>0.5</b>	(0-5) <b>0.5</b>	(0-5)



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

Benson: (320) 843-4109

SUBMITTED FOR:

## **SOIL TEST REPORT**

FIELD ID LOT 1 BLK 45715 SAMPLE ID 14041439

FIELD NAME COUNTY

TWP BIK 45715 RANGE

SECTION

QTRLOT 1 ACRES 40

PREV. CROP

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

**ROA 1EO** 

N E W S

REF #

14041439 BOX #

LAB# NW22696

Date Sampled 05/09/2014

KEVIN DUDDRIDGE

Date Received 05/13/2014

Date Reported 5/15/2014

Nutrient I	n The Soil	Interpretation	1st	Crop Cho	ice	211	d Cro	p Choice	-	310	d Cro	p Choi	ice
0-6"	2 lb/ac	VLow Low Med High		YIELD GOAL			YIELD	GOAL			YIELI	D GOAL	
6-24"	6 lb/ac	**		0			0		of Landson and Landson		0	<i>i</i>	
0-24"	8 lb/ac		SUGGE	STED GUIDE	LINES	SUG	SESTED	GUIDELINES	5	SUGG	ESTE	O GUIDEL	LINES
Nitrate			LB/AC	RE APPLI	CATION	LB/A	CRE	APPLICATI	ON	LB/A	CRE	APPL)(	CATION
Olsen	8 ppm	*****	N			N				N			·
Phosphorus			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P	05			
Potassium	57 ppm	*****	K <sub>2</sub> O			K <sub>2</sub> O			K	20	<del> </del>		arage atotachus
Chloride			CI			СІ				21			
0-6" 6-24"	8 lb/ac 24 lb/ac	******	5			S				s			
Sulfur			В			8			-	В			
Boron	0.2 ppm	**				7.				-			
Zinc	0.23 ppm	=4=4*	Zn			Zn				'n		ļ	
Iron	22.3 ppm	******	Fe			Fe			۶	e			
Manganese	1.0 ppm	2 W A W & B Y A V D +	Mn			Mo	<u> </u>			tri			
Copper	0.35 ppm	*****	ļ ļ		IIIIIIII III III III III III III III I			- American Company of the section of			mail market en	-	
Magnesium	244 ppm	244,224,244,244,44	Cu			Cu				u			
A. L. C.			Mg			Mg			٨	1g			
Calcium	4042 ppm	******	Lime		- Contractor Contractor	Lime				ne			F) * F F 1000 1000 F 1 * Tour to the tour
Sodium	17 ppm			1							**********		144
Org.Matter	.2 %		Cail at	Buffer p	Cat	ion Exc	nange	% Base	Satur	atior	Typ	oical Rar	nge)
Carbonate(CCE)			Soil ph	buller	77	Capaci	ty	% Ca	% Mg	٥	% K	% Na	% H
0-6" 6-24" Sol. Salts	0.13 mmho/cm 0.08 mmho/cm	1 1 1 1	0-6" <b>8.</b> :			22.5 m	₽q	(65-75) <b>90.0</b>	(15-20) <b>9.1</b>		1-7) <b>0.7</b>	(0-5) <b>0.3</b>	(0-5)



SUBMITTED FOR:

#### **SOIL TEST REPORT**

FIELD ID **DES SE 18-4-6E**SAMPLE ID **14041444** 

FIELD NAME COUNTY

TWP 4-6E RANGE

SECTION 18 QTRSE ACRES 140

PREV. CROP

SUBMITTED BY: PR2421
PRAIRIE SKY AVIATION

2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB ROA 1EO

N S

REF # 14041444 BOX #

LAB # **NW22691** 

Date Sampled 05/09/2014

KEVIN DUDDRIDGE

Date Received 05/13/2014

Date Reported 5/15/2014

Nutri	ent In	The Soil	In	iterpretation	1st	Crop Choic	е	2nd	Cro	p Choice		Ird Cr	op Cho	ice
	0-6"	1 lb/ac	VLOW	Low Med High	)	IELD GOAL		)	YIELD	GOAL		YIEI	D GOAL	
	6-24"	3 lb/ac	-			0		The street management of the street management	0				0	
	0-24"	4 lb/ac			SUGGE	STED GUIDELI	NES	SUGGE	STED	GUIDELINES	SU	GGESTE	D GUIDEI	LINES
Nitrate			- Constitution of the Cons		LB/ACF	RE APPLICA	TION	LB/ACE	RE	APPLIC ATIO	N LB	/ACRE	APPLI	CATION
	Olsen	5 ppm	*****		N			N			N			***************************************
Phosphorus Potassium					P <sub>2</sub> O <sub>5</sub>			P2O5			P <sub>2</sub> O <sub>5</sub>			
r ocassioni		83 ppm	*****		K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 0			
Chloride					CI	The state of the s		CI			CI			
	0-6" 6-24"	10 lb/ac 36 lb/ac	*****	**********	S			s			S			
Sulfur Boron		0.3 ppm		1-1-1	В			В			В			
Zinc		0.45 ppm	-	**	Zn			Zn			Zn			
Iron		34.0 ppm	*****	******	Fe		WAS PROVIDENCE TO	Fe	1810		Fe			
Manganese	T. C.	2.9 ppm	*****	******				Ma	-				-	***********
Copper		0.24 ppm	air no de secono.	Toward To	Mn			Mn	and the second second	emmunicació in est en concreto	Mn	at it is then		
Magnesium	7000 - 1000	237 ppm	***	********	Cu	and a Name of the Act of the		Cu	·		Cu			
			-		Mg			Mg			Mg	Eliphidical wave		
Calcium		1463 ppm	-	****	Lime			Lime	o in a livery of the same	الماني و ورا را المان	Lime			
Sodium		16 ppm	**			1					1	econocione con	***************************************	
Org.Matter		1.8 %		1000	Soil pH	Buffer pH	1	on Excha	nge	% Base		on (Ty	pical Rai	nge)
Carbonate(CCE)								Capacity		% Ca	% Mg	% K	% Na	% н
Sol. Salts	0-6" 6-24"	0.12 mmho/cm 0.13 mmho/cm	1	The state of the s	0-6" <b>7.4</b> 6-24" <b>8.1</b>	1		9.6 meq		(65-75) <b>76.4</b>	(15-20) <b>20.6</b>	(1-7) <b>2.2</b>	(0-5) <b>0.7</b>	(0-5)

General Comments: Sand (CEC range = 0 to 10) (Coarse)

	17:4
pere	9.3

Robert Budey - Spread Agreement #1	
i .	
LUCTOTOOK	MARKING COOPERATIO A CONTRACTA

		LIVESTOC	V MINIAUN	E SPREADING A	SKEENENI	
Belween	. Prairie Organic Laye	er Farms (10)	1/2016		ereafter referred to as "L	ivestock Operator"
	(Please Prin	ii)	- H - Joseph	elure)		, , , , , , , , , , , , , , , , , , , ,
And.	Robert Budey		North	8 12 16 H	ereafter referred to as:	
	(Please Prin	7	(Sign	ature)	("Landowner" or 1.	"Land Renter"
Dale:	A STATE OF THE STA	12014		1,000		
The dura	tion of this agreemen	nt is of 10	years, beginnin	g at the above date.		
Respon	sibilities of the La	indowner or the	Land Renter			
Land P	arcels selected	as potential fie	lds to recei	ve manure		
					Consider Internal	C. I. Walle
Field	Legal Location	(Check One)	Nominal Size (acres)	Area available for spreading	Cropping Intentions	Preferred Application Time
Name to provide the		Owned Rented		(acres, exclusive of setbacks)		
	SW 26-03-05E (east side)	1	40	40	Alialia	Fall
	SE 26-03-05E (E 1/2 - south end)		50	50	Affalfa	Fali
	SE 26-03-05E (W 1/2 - south end)	1/	50	50	Alfalfa	Fall
N 1/2 - 30	NE 14-03-05E ac W side, 10 ac E	side)L	40	40	Timothy	Fall
	fowner or Land Rer ep this document and a			oposed)		
	tify the Livestock Opera			ailable for soreadice		
				□ 1000 gallor □ tonne, con	duinnel in monure heine en	infectually the mathed and
-	ecified below by the Liv		50,	= 1000 garot to to the ton	amanai armanare beng ap	pico mi ne memo ala
T will inc	corporate manure within	48 hours of hmadca	ist applications if	agreed to as part of the manur	e application method (below	w).
Respons	sibilities of the Liv	vestock Operato	ſ			
Field A	pplication Detail	ls				
	Time of Application	n Spring	. 5	Summer (Fall		
	Application Method	Broad		troadcast and incorporate villal	- 48 hours	
	• •	-njecta	DJ _ II	ngation/Sobnkier		
Applicato						
Livestock (	•	Z'				
Custom Ap	iplicator I Manure Application St		pplicator.			
ATTROUPA:EU	Wandie Application of	israng date.			A CONTRACTOR OF THE PROPERTY O	
The Lives	stock Operator: (Ch	eck where applica	ble/proposed)			
Will ke	ep track of these record	ds, but will not disclos	se them without th	re consent of the Landowner a	nd the Land Renter,	
الله المستحمية	all costs for soil testing	g and these results w	ill be made availa	able to both the Landowner and	I the Land Regler;	
				aliable to both the Landowner:		
/	culate the manure appl					
	the soil test recomi					
	/	mendations for plant	•			
	P			Mity Guide (Manitoba Agricuttu	re and Fond) or the Farm	Practices Guidelines for
	Hog/Poultry Producers		s be, me oor 1 en	mity dass (Mathioda Adheara	e and thoughts the thirti	Trackets Cares as the
,	wide a proof of calibrati		reading equipmen	ıı;		
	-			ated dates and rates of applica	fion in volume and crop aut	rent (N. P. K):
	•		_	rologist, along with field map(s		
	•	,		wher and the Land Renter, if a		
en pro	a cold a comment	The state of the s				- W

	LIVESTOCI	K MANUR	E SPREADING A	GREEMENT	
Between: Prairie Organic La	AND DESCRIPTION OF THE PARTY OF	I'm Ot		ereafter referred to as "L	ivestock Operator*
(Please Pr Robert Budey	int)	(Sign.	0 11		
Aliu.		Bell	1	ereafter referred to as:	
Date: (Please Pr	12714	(Signi	aftire) —	"Landowner" or T	"Land Renter"
The curation of this agreeme	ent is al 5 v	ears healanin	g at the above date.		
Responsibilities of the L			g of the above dote.		VIII. (1
Land Parcels selected			ve manure		
Field Legal Location	(Check One)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
	Owned Rented	(acres)	spreading	Otopping American	Time
NE 11-03-05F	Owned Kented	400	(acres, exclusive of selbacks)		
(W side)		100	100	Timothy	Fall
SW 14-03-05E (N 1/2 - N end)		40	40	Timothy	Fall
					and a
The Landowner or Land Re	nter: (Check where	applicable/pro	oposed)	3	
will knop this document and			,,		
will notify the Livestock Oper	rator of the dates those	fiolds will be ava	airable for spreading		
agrees to purchase manure	mutrient at a rate of S	per	. 1000 galer 🖸 tonne cond	ditional to manure being ap	plied with the mothod and
time as specified below by the Li					•
_] will incorporate manure with	in 48 hours of broadcast	t applications if a	agreed to as part of the manura	application method (helo	w).
Responsibilities of the Li	ivestock Operator		The state of the s	, -	- NAME OF THE PROPERTY OF THE
Field Application Deta			/		
Time of Application	on Spring	S	ummer 🗆 Fall		
Application Method	://Broadca		roadcast and incorporate within	148 hours	
A. Maria	Injection	ı ju	rigation/Sprinkler		
Applicator Livestock Operator					
Custom Applicator	i Name of app	plicator.			
Anticipated Manure Application 5					
The Livestock Operator: (Cl	heck where applicab	le/proposed)	A Committee of the Comm		-
will keep track of these recor	rds, but will not disclose	them without th	e consent of the Landowner ar	nd the Land Renter;	
/			ble to both the Landowner and		
Zi will carry out a manure analy	sis test and the results:	will be made ava	illable to both the Landowner a	and the Land Renter.	:
will calculate the manure app	ofication rate for each fie	ild on the basis o	of (check only one):		
the soil test recon	amendations for plant no	trogen requirem	ents, or		
inc sociest recur	nmendations for plant ph	nosphorus requir	rements, or		
Li general soit fortility Beet/Da-ry/Hog/Poultry Producer		per the Soil Fart	ility Geide (Manitoba Agricultur	e and Food) of the Farm	Practices Guidelines for
will provide a proof of calibrat		adino equiomen	K:		
will nearly the Landowner and				ion in valume and cromou	rient (N. P. K):
will have a manure manager					I
			wher and the Land Renter if a		

		LIVESTO	CK MANUR	E SPREADING A	GREEMENT	
Between	Prairie Organic		Id. Jan (+	atúa)	lereafter referred to as "L	ivestock Operator*
Ane:	Lillian Pohrebr		1/2	hul	tereafter referred to as:	
	(Please Pri		(Sign		K "Landowner" or [	
Date:	Aus. 211	1 44		pport of the spread agreen, y who has an agreement to		ric Organic Layer Farms I td
The dura	tion of this agreeme			g at the above date.	Terr tris is to from the.	
	sibilities of the L					Water and a second
Land P	arcels selected	as potential fi	elds to recei	ve manure		
Field	Legal Location	(Check One) Owned Rented	Nominal Size (acros)	Area available (cr spreading	Cropping Intentions	Preferred Application Time
	NE 11-03-05E	Owned Rensed		(acres, exclusive of setbacks)	Tionath	Enti
	(W side)	V	100	100	Timothy	Fall
			1,000			
			10.00			10.20.00
5	downer or Land Re	`		oposed)		
4	tify the Livestock Oper	,		allable for spreading		
				1000 galer 🗀 tonne, so	nditional to manure being ar	oulied with the method and
	scilled below by the Li			<i>g</i>		
will inc	corporate manure with	in 48 hours of broade	cast applications if	agreed to as part of the manu	ire application method (belo	w}.
Respon	sibilities of the Li	vestock Operati	or			
Field A	pplication Deta	ils				-
	Time of Application	on "Sprin	ig Is	ummer 😅 Fall		
	Application Method	⊇ 9·0a		roadcast and incorporate with	in 48 hours	
Applicate	.,	Injec	tion [_ lt	rigation/Sprinkler		
Livestock (		:/				4
Custoni Aş	plicator				14	
Anticipated	I Manure Application S	Starting Date		200	AND THE PARTY OF T	
The Live	stock Operator: (C	heck where applic	able/proposed)		100	
I sil ke	ep lirack of these reco	rds, but will not display	ase them without to	e consent of the Landowner.	and the Land Renter.	
1				able to both the Landowner air		4
	•			ailable to both the Landowner		4 1 1 1
∵ will cal	culate the manuse app	olication rate for each	feld on the basis	of (check only one):		
	in the soil test recon	rimendations for plan	En frogen requirem	ents, or		
	The soil test recon	rmendations for plan	Limesphorus requi	rements, or		
			as per the Soil Fort	hty Guide (Manitoba Agricult	ure and Food) or the Farm	Practices Guidelines for
,	HogiPoutry Producer					and the state of t
	vide a proof of callbra				nt na le velous - and ana in a	troop (b) O K)
				ated dates and rates of applications of applications and rates of applications are the second applications and applications are the second applications and applications are the second applications and applications are the second applications are the seco		
				rologist, along with field made		Mac 10
A Will lass	IVICE a copy of everal	manana managemen	ir pian to the Lanco	owner and the Land Renter, if	аррисаое.	

Spread Agreement	#4				Apriliance day of	The state of the s	The second secon							
- in support of			LIVE	STOC	K MANUR	E SPREADING A	GREEMENT							
Agreement #2 with	Belween	Prairie Organic			/ i d		ereafter referred to as "	ivestock Operator"						
Robert Budey	And:	(Flease Pri Mark Budey			18.90	atire) H	ereafter referred to as.							
	Date The dura	(Please Pill Aug. 1977 Ition of this agreeme		< S	acknowledge si and Robert Bude			Li "Land Renter" ne Organia Layer Larms Lic						
	Respon	sibilities of the L	andown					A Committee of the Comm						
	Land P	arcels selected	as pote	ential fie	lds to recei	ve manure								
	Field	Legal Location		k One)	Nominal Size (acres)	Area available for spreading	Cropping Intentions	Preferred Application Tyric						
and the second second		SW 14-03 05E	Owned	Rented	40	(acres, exclusive of setbacks)	Timothy	l fall						
Managassising		(N 1/2 - N end)		-	40	40	,							
								and the second s						
	The Landowner or Land Renter: (Check where applicable/proposed)  will keep this document and any other related records in his files.  will notify the Divestock Operator of the dates those fields will be available for screading.  agrees to purchase manure nutrient at a rate of \$													
and the second	will incorporate manure when 48 hours of broadcast applications if agreed to as part of the manure application method (bolow)  Responsibilities of the Livestock Operator													
j ş	Field Application Details													
2 A COLUMNIA	Time of Application													
	Applicate	Operator	₹.											
	Custom Ap Antic pater	oplicator d Manure Application S			eplicator	AMOUNT I								
	28	stock Operator: (Ch						-						
						e consent of the Landowner a tible to both the Landowner an								
	- 17	rry out a manure analy: Iculate the manure app				allable to both the Lancowner of tcheck only one):	and the Land Renter.	Voor						
		Ine soil test recom	mendacon	is for plant	narcgen requirem	enes, or		d.						
		the soil test recom					essed Food) or the Farm	Practices Guicelinus for						
		Till general soil ferbity recommendators as ser the Soil Ferbity Guide (Manitoba Agriculture and Food) or the Farm Practices Guidelines for see "Oa ny Hog-Puvitty Producers in Manifolia series."												
	11	will provide a proof of calexation for the manure spreading equipment with notify the Landowner and the Land Renter of changes in anticipated dates and rates of application in volume and crop nutrient (N. P. K.);												
-	W yell be	ve a manure managem	ient bien bi	repared by	a professional ag	rologist, along with field maps number and the Lario Rentes, if a	s) highlighting setbacks to							



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

Benson: (320) 843-4109

SUBMITTED FOR:

### **SOIL TEST REPORT**

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 3-5E

RANGE

SUBMITTED BY: PR2421

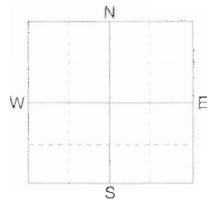
PRAIRIE SKY AVIATION

2 MI SOUTH ON 59

BOX 309

SECTION 26 QTRSW ACRES 40

PREV. CROP Alfalfa



REF # 14041451 BOX # LAB# NW35323

NIVERVILLE, MB **ROA 1EO** 

Date Sampled 07/23/2014

ROBERT BUDEY

Date Received 07/28/2014

Date Reported 7/30/2014

Nutrient In	The Soil	Interpretation	1st	Crop Cl	noice	2110	d Cro	p Choice		3rd Crop Choice			
0-6"	11 lb/ac	VLow Low Med High	Y	r1ELD GOA	/L		YIELD	GOAL		YIEL	.D GOAL		
6-24"	6 lb/ac	Alt. may			No. of calculation		O						
0-24"	17 lb/ac	And the second s	SUGGE	STED GUI	DEL1NES	SUGG	GUIDELINE	5 SU	SUGGESTED GUIDELINE				
Nitrate	AA THE LEAD HE SHEET SHE	Orași de la companion de la co	LB/ACF	RE APP	PLICATION	LB/A	CRE	APPLICATI	ON LB	/ACRE	APPLIC	ATION	
Olsen	8 ppm	*****	N			N			N	-	- Juniu		
Phosphorus			P <sub>2</sub> O <sub>5</sub>	-		P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>2</sub>	1			
Potassium	55 ppm		K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> O				
Chloride			CI			СІ			CI				
0-6" 6-24"		**************	s			s			5			one in it is in it.	
Sulfur			В			В			В				
Boron		******	Zn		47/7	Zn			Zn				
Zinc		******				-	MARKET ALTERNATION					F-10. N. S. Pharman	
Iron	19.8 ppm	******************	Fe			Fe			Fe				
Manganese		******	Mn			Mn	-		Mn				
Copper	0.34 ppm	******				Cu			Cu		1		
Magnesium	524 ppm	A CONTRACTOR OF THE CONTRACTOR	Cu			Mg	······································		Mq		STATE OF THE PARTY		
Calcium	5027 ppm	*****					anna anna anna anna anna anna anna ann					The second design	
Sodium	32 pp.m	24.00.00.00	Lime			Lime	Power 7.1		Lime	2			
Org.Matter	3.1 %	*****			Ca	tion Excl	ange	% Bas	e Saturat	ion (Ty	pical Rai	nge)	
Carbonate(CCE)			Soil pH	Buffe	г рн	Capacit	.у	% Ca	% Mg	% K	% Na	% H	
0-6" 6-24" Sol. Salts	0.35 mmho/cm 0.13 mmho/cm	1 1 1 1	0-6" <b>8.1</b> 6-24" <b>8.4</b>			29.8 me	q	(65-75) <b>84.4</b>	(15-20) <b>14.7</b>	(1-7) <b>0.5</b>	(0-5) <b>0.5</b>	(n-5)	



SUBMITTED FOR:

## **SOIL TEST REPORT**

FIELD ID **E1/2**SAMPLE ID
FIELD NAME

TWP **3-5E** SECTION **26** 

COUNTY

RANGE

QTRSE ACRES 50

PREV. CROP Alfalfa

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

W S

REF # 14041453 BOX # 0

LAB # **NW35325** 

Date Sampled 07/23/2014

**ROBERT BUDEY** 

Date Received 07/28/2014

Date Reported 7/30/2014

Nutrier	nt In The Soil	Interpretation	1st C	rop Choic	е	2nd	1 Cro	o Choice		3rd Cr	op Cho	ice
O	0-6" 11 lb/a	VLow Low Med High	YI	ELD GOAL			YIELD	GOAL		YIE	LD GOAL	
6-	20" 5 lb/a	C		0			0				0	
0-	20'' 16 lb/a		SUGGES	TED GUIDELIN	NES	SUGGI	ESTED	GUIDELINES	S	UGGEST	ED GUIDE	LINES
Nitrate			LB/ACRI	APPLICA	TION	LB/AC	CRE	APPLICATIO	N I	B/ACRE	APPLI	CATION
	sen 3 ppr	n *****	2			N	1		_   ^			
Phosphorus Potassium			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> (	05		
rotession	73 ppr	N ******	K₂O			K <sub>2</sub> O			K	0		
Chloride			СІ			СІ			C	1		
6-		C ************	s			S		e	S			
Sulfur Boron	1.0.00	n **********	В			В			E		-	
Zinc	0.38 ppi		Zn			Zn		A CONTRACTOR OF THE CONTRACTOR	z	n		
Iron	22.0 ррг	n ************	Fe			Fe			F			
Manganese	1.9 ppr	11 *************	Mn			Mn		***************************************	М	n		N. V.A. BANK
Copper	0.52 ppr									+		
Magnesium	742 ррт	n	Cu			Cu			C	J		
The state of the s			Mg			Mg			M	9		
Calcium	AND THE RESIDENCE OF THE PARTY	11 *****	Lime		man and and decrease of	Lime		uur, uuriminin varan ka kad ad daarta dha a diri sabilagiyo i	Lin	ie		
Sodium	32 ppr	n *****					i	***				
Org.Malter	3.4 %	0 *****	Soil pH	Buffer pH	Cati	on Exch	ange	% Base	Satura	tion (Ty	pical Ra	nge)
Carbonate(CCE)			3011 p11	Duller ph		Capacity	/	% Ca	% Mg	% K	% Na	% H
	0.29 mmho/cr 20" 0.25 mmho/cr	13 1 1	0-6" <b>8.2</b> 6-24" <b>8.6</b>		3	32.2 med	q	(65-75) <b>79.8</b>	(15-20) <b>19.2</b>	(1-7) <b>0.6</b>	(0·5) <b>0.4</b>	(0-5)



## **SOIL TEST REPORT**

FIELD ID W1/2 SAMPLE ID FIELD NAME

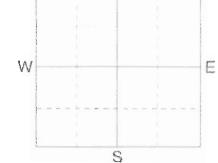
COUNTY

TWP 3-5E SECTION 26

RANGE

QTRSE ACRES 50

PREV. CROP Alfalfa



1

REF #

LAB #

14041452 BOX #

NW35324

SUBMITTED FOR:

**ROBERT BUDEY** 

SUBMITTED BY: PR2421 PRAIRIE SKY AVIATION

2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

**ROA 1EO** 

Date Sampled 07/23/2014

Date Received 07/28/2014

Date Reported 7/30/2014

0

Nutrient In	The Soil	In	terpi	retati	ion	1st	Croj	Choice	3	2nd Crop Choice				3rd Crop Choice			
0-6"	7 lb/ac	VLow	Low	Med	High	,	'IELD	GOAL			YJELO	GOAL			YIEL	D GOAL	
6-24"	3 lb/ac	diameter and the second			0			0					(	)			
0-24''	10 lb/ac					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				SUGGESTED GUIDELINES				
Nitrate	ite					LB/AC	RE	APPLICA	TION	LB/A	CRE	APPLICATI	ON	LB/	ACRE	APPLIC	CATION
Olsen	3 ppm	*****				N				N		- dubidentico	_	N			
Phosphorus					-	P <sub>2</sub> O <sub>5</sub>				₽205				P <sub>2</sub> O <sub>5</sub>			
Potassium	58 ppm	*****	***			K20				K₂O				K <sub>2</sub> O			
Chloride						CI				Cl				CI		- Christian Chri	
0-6" 6-24"	16 lb/ac 72 lb/ac	9		1		s				S				s			
Sulfur						В				В				В			
Boron	0.9 ppm	1		1		Zn				Zn		in and		Zn			
Zimc	0.74 ppm			1							***************************************		-			<u> </u>	
Iron	19,6 ppm	*****	*****	****	*****	Fe			Contract rectain	Fe				Fe			
Manganese Copper	2.8 ppm		and the second second second second	****	R 30-36	Mn			Contrador Contra	Mn		***************************************	The state of the s	Mn			
	0.41 ppm	3		*****	*****	Cu	••	A CONTRACTOR OF THE PARTY OF TH		Cu				Cu			Action
Magnesium	679 ppm	Planten				Mg	***			Mg				Mg		l	
Calcium	5338 ppm	*****	*****	*****	*****					4.50				Lima		1	
Sodium	34 ppm	****				Lime				Lime		1		Lime			
Org,Mattes	3.2 %	*****	****			F 0:1 -11	P	uffer pH	Cati	on Excl	nange	% Bas	e Satı	uratio	n (Ty	pical Rar	nge)
Carbonate(CCE)		The Management of the Manageme		1		Soil pH	В	urrer pri		Capaci	ty	% Ca	% N	Чg	% K	% Na	% H
0-6" 6-24" Sol. Salts	0.29 mmho/cm 0.17 mmho/cm		*			0-6" <b>8.3</b>				32.6 me	₽q	(65-75) <b>81.8</b>	(15-2 <b>17</b> .		(1-7) <b>0.5</b>	(0·5) <b>0.5</b>	(0-5)



### **SOIL TEST REPORT**

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP **3-5E** SECTION **11** 

RANGE

QTR NE ACRES 100

PREV. CROP Timothy

W

1

REF # 14041455 BOX #

LAB # **NW35326** 

SUBMITTED FOR:

ROBERT BUDEY

SUBMITTED TOK.

SUBMITTED BY: PR2421
PRAIRIE SKY AVIATION

2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

**ROA 1E0** 

Date Sampled 07/23/2014

Date Received 07/28/2014

Date Reported 7/30/2014

Nut	rient I	n The Soil	Interpreta	tion	1.6	t Cro	p Choice	9	2n	d Cro	p Choice		31	rd Cr	op Cho	ice
	0-6"	11 lb/ac	VLow Low Me	d High		YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
	6-24"	3 lb/ac	***	0				0					(	0		
	0-24''	14 lb/ac			SUG	SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				SUGGESTED GUIDELINES			
Nitrate	te				LB/A	CRE	APPLICA"	TION	LB/A	CRE	APPLICATION	ОИ	LB/	ACRE	APPLIC	CATION
	Olsen	7 ppm	*****		N				N				N			
Phosphorus					P2O5			1	P <sub>2</sub> O <sub>5</sub>			1	P <sub>2</sub> O <sub>5</sub>			
Potassium		41 ppm	*****		K <sub>2</sub> O				K <sub>2</sub> O			And in constitution of the last	K <sub>2</sub> O			
Chloride	]				CI		-		CI			The second secon	CI			
	0-6" 6-24"	38 lb/ac 192 lb/ac	*****		s				s				S			
Sulfur Boron		0.7 nnm	*****		В				В				В			
Zinc		0.44 ppm			Zn				Zn				Zn		AAAAA	
Iron		55.2 ppm	*****	******	Fe			A STATE OF THE STA	Fe	MATERIAL TIETUTE COLLEGE	The state of the s		Fe		AND THE	A1A1F
Manganese	market with the control	1.8 ppm	*****	•	Mn				Mn				Mn	E.		
Copper		0.22 ppm	****	*****	Cu				Cu	***************************************			Cu			***************************************
Magnesium	PACE AND ADDRESS OF THE PACE A	530 ppm			Mg				Mg		,		Mg			
Calcium		4176 ppm	*****	******	Lime				Lime		est universal and analysis design Tig. cas that I to		Lime			-
Sodium		21 ppm	4.7.4		Line				Linie				Citie			
Org.Matter		4.2 %	*****	•	Soil	он В	uffer pH		on Excl	_			7	- dried w twisters	pical Rai	nge)
Carbonate(CCE	)								Capacit	У	% Ca	% [	Mg	% K	% Na	% H
Sal Salts	0-6" 6-24"	0.23 mmho/cm 0.21 mmho/cm	1 1 1		0-6" <b>8</b>				25.5 me	P	(65-75) <b>81.9</b>	(15-2 <b>17</b> .		(1-7) <b>0.4</b>	(0-5) <b>0.4</b>	(0-5)



SUBMITTED FOR:

### SOIL TEST REPORT

FIELD ID N1/2 SAMPLE ID FIELD NAME COUNTY

TWP 3-5E SECTION 14

RANGE

ACRES 40

QTR **SW** 

PREV. CROP Timothy

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

W E S

REF # 14041456 BOX # 0

LAB # NW35327

Date Sampled 07/23/2014

**ROBERT BUDEY** 

Date Received 07/28/2014

Date Reported 7/30/2014

Nutrient Ir	The Soil	Interpr	retation	15	t Cro	p Choice	9	217	d Cro	p Choice		3rd Cr	op Cho	ice	
0-6"	9 lb/ac	VLow Low	Med High		YIELC	GOAL			YIELD	GOAL		YIE	LD GOAL		
6-24"	3 lb/ac	**			0				0			0 SUGGESTED GUIDELINES			
0-24''	12 lb/ac			SUGGESTED GUIDELINES				SUGO	GESTED	GUIDELINES	SU				
Nytrate				LB/ACRE APPLICATION			LB/ACRE		APPLICATION	ON LE	3/ACRE	ACRE APPLI			
Olsen	4 ppm	*****		N				N							
Phosphorus				P <sub>2</sub> O <sub>5</sub>	******			P <sub>2</sub> O <sub>5</sub>	***************************************		P <sub>2</sub> O	5			
Potassium	51 ppm	*****		K <sub>2</sub> O				K <sub>2</sub> O	***************************************		K <sub>2</sub> (	)			
C hloride				СІ				CI			СІ			Philippin 44.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	
0-6" 6-24"		*********	1 1	S	The second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section in the second section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section in the section is a section in the section in t			5	***********************		s				
Sulfur				В				В		And the second s	В				
Boron Zinc		*****		Zn				Zn			Zn				
Iron	42.8 ppm	*****	*****	Fe	***************************************			Fe			Fe				
Manganese Copper	4.6 ppm	*****		Mn				Mn	SEED SEED SEED SEED SEED SEED SEED SEED		Mn				
Magnesium	0.51 ppm 498 ppm	*******	*****	Cu	CONTRACTOR OF THE PROPERTY OF			Cu			Cu				
	498 ppm			Mg	THE REAL PROPERTY OF THE PERSON OF THE PERSO		**************************************	Mg			Mg				
Catcium	5338 ppm	*****	*****	Lime	pr	The section of the se		Lime	10.00 per 6.000 per 10.00 per		Lim	2		PR 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Sodium	28 ppm	****													
Org.Matter	3.9 %	*****	***	Soil	н в	uffer pH		on Excl	-	% Base	Satura	ion (Ty	pical Ra	nge)	
Carbonate(CCE)				J		p		Capaci	у	% Ca	% Mg	% K	% Na	% H	
0-6" 6-24"	0.24 mmho/cm 0.18 mmho/cm	****		0-6- <b>8</b>				31.1 me	P	(65-75) <b>85.8</b>	(15-20) 13.3	(1-7) <b>0.4</b>	(0-5) <b>0.4</b>	(0-5)	



#### **SOIL TEST REPORT**

FIELD ID N1/2 SAMPLE ID FIELD NAME COUNTY

TWP 3-5E SECTION 14

RANGE

QTR NE ACRES 40

PREV. CROP **Timothy** 

SUBMITTED FOR:

**ROBERT BUDEY** 

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

W \_\_\_ S

REF # 14041454 BOX #

LAB# NW35328

Date Sampled 07/23/2014

Date Received 07/28/2014

Date Reported 7/30/2014

Nutr	ient In	The Soil	Interpret	ation	Ist C	rop Choic	2	2nd C	rop Choice		3rd Cr	op Cho	ice
	0-6"	9 lb/ac	VLow Low M	ed High	YI	ELD GOAL		YII	ELD GOAL	- Indiana	YIEI	D GOAL	_
	6-18"	2 lb/ac	2.7			0			0	The same of the sa		0	
	0-18''	11 lb/ac			SUGGES	ED GUIDELIN	ves	SUGGEST	ED GUIDELINES	su	GGESTE	D GUIDE	LINES
Nitrate			The state of the s		LB/ACR6	APPLICA	TION	LB/ACRE	APPLICATIO	ON LE	/ACRE	APPLI	CATION
	Olsen	3 ppm			N			N		N			
Phosphorus	oisen	3 ppm			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O	5		A STATE OF THE STA
Potassium		47 ppm	******		K <sub>2</sub> O			K <sub>2</sub> O		K <sub>2</sub> C		A PARTICIPAL PROPERTY.	
Chloride		and defendance of the second	And the second s		СІ	revenue.		CI		CI			
	0-6" 6-18"		*****	********	S			S		S	Dalama A. A. A. A. C.		
Sulfur					В			В		8			
Zinc	- AND		********		Zn			Zn		Zn			
Iron	-		*****		Fe	NAME OF THE OWNER, NAME OF THE O		Fe	THE RESERVE OF THE PERSON OF T	Fe		1	-
Manganese		2.9 ppm	*****	****			constant like hander likeen				_		
Соррег	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.28 ppm	*****		Mn			Mn		Mn			- Januar de de des des des des sensons
Magnesium		315 ppm	******	*****	Cu			Cu		Cu			Killa
					Mg		***************************************	Mg		Mg			
Calcium		2638 ppm	*****	***	Lime			Lime		Lime	2		THE STATE OF THE S
Sodium		15 ppm	**		1				1				······································
Org.Matter		3.4 %	******		Soil pH	Buffer pH		ion Exchang	'	N. Ph.	ī	pical Ra	7
Carbonate(CCE)	)		- Control of the Cont					Capacity	% Ca	% Mg	% K	% Na	% H
	0-6" 6-18"	0.16 mmho/cm 0.17 mmho/cm	1 1	THE STATE OF THE S	0-6° 7.8 6-24° 8.2			16.0 meq	(65-75) <b>82.4</b>	(15-20) <b>16.4</b>	(1-7) <b>0.8</b>	(0-5) <b>0.4</b>	(0-5)

APPENDIX 9.4
Spread Agreement #5

	_	LIVE	STOC	K MANUR	E SPREADING A	GREEMENT	
Between	(Signature)  (Signature)  (Signature)  (Signature)  (Signature)  (Signature)  (Signature)  (Signature)  (Check One)  (Chec						ivestock Operator*
	(Please Pri		·				
And:		lereafter referred to as:  "Landowner" or	) "Land Renter"				
Date:	AUG [4]:						
The dura	tion of this agreeme						
Respon	sibilities of the La	<u>andowne</u>	r or the	Land Renter			
Land P	arcels selected	as pote	ntial fie	lds to receiv	ve manure		
Field	Legal Location	(Check	(One)			Cropping Intentions	Preferred Application
		Owned	Rented	(acres)			Time
		<b>✓</b>	,	55		Alfalfa	Fall
		<b>✓</b>		25	25	Grass	Fall
		<b>V</b>		70	70	Grass	Fati
will kee will not agrees time as spe	ep this document and a tify the Livestock Opera to purchase manure r acified below by the Liv	any other re ator of the o nutrient at a restock Ope	lated reco fates those rate of \$ _ erator;	rds in his files; e fields will be ava per [	ailable for spreading		
Respons	sibilities of the Lh	estock (	Operato				
Field A	pplication Detail	ls					
		<b>~</b>	Broado	cast 🗆 Bi	roadcast and incorporate with	in 48 hours	
Applicate Livestack C Custom Ap Anticipated	Operator I		Name of ag				
will kee will pay will can will can	ep track of these record all costs for soil testing ry out a manure analys sulate the manure appl the soil test recomm	ds, but will ig and these is test and ication rate	not disclose results wi the results for each fi for plant n	e them without the ill be made availa will be made ava leid on the basis of altrogen requirement	ble to both the Landowner and illable to both the Landowner of (check anly one): ents, or	d the Land Renter;	
í	general soil fertility	recommen	dations as			re and Food) or the Farm	Prectices Guidelines for
	Hog/Poultry Producers ride a proof of calibration			eading equipmen	t		
					ed dates and rates of applica	tion in volume and crop nutr	rient (N. P. K):
					ologist, along with field map(s		
					wner and the Land Renter, if a		



SUBMITTED FOR:

## SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP **3-5E** SECTION **19** 

RANGE

QTRSW ACRES 55

PREV. CROP Alfalfa

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION
2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

W

REF # 14041457 BOX # 0

LAB # **NW35969** 

Date Sampled 07/28/2014

**GLEN CHUBEY** 

Date Received 07/31/2014

Date Reported 8/1/2014

Nutrient In	The Soil	Interpretation	1.st	Crop Choi	C6	2nd (	Crop Choice		3rd Cr	op Cho	ice
0-6"	10 lb/ac			YIELD GOAL		Y	ELD GOAL		YIĒ	LD GOAL	
6-24"	3 lb/ac	TO THE PROPERTY OF THE PROPERT	- IAME AND ADDRESS OF THE PARTY AND ADDRESS OF	0			0			0	
0-24"	13 lb/ac	All de la company de la compan	SUGGE	STED GUIDEL	INES	SUGGESTED GUIDELINES		SU	SUGGESTED GUIDELINE		
Nitrate		A property of the second secon	LB/AC	RE APPLIC	ATION	LB/ACR	E APPLICATION	DIN LE	/ACRE	APPLI	CATION
Olsen	25 ppm	A*****************	N			N		N			
Phosphorus			P2O5	and the second		P2O5		P20			
Potassium	61 ppm	*****	K <sub>2</sub> O			K <sub>2</sub> O		K <sub>2</sub> C			
Chlonde			CI		***************************************	СІ		CI			CONTRACTOR
0-6" 6-24"	14 lb/ac 42 lb/ac	1 1	s			S		S			
Sulfur			В			В		B			
Zinc	0.7 ppm		Zn	_		Zn		Zn			1000
Iron	8.16 ppm 20.9 ppm	******					na andreas (1979 Service or representation of the description of the service of t			-	AND THE PARTY OF T
Manganese	1.6 ppm		Fe			Fe		Fe	-		-
Copper	3-11-11-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	*****	Min			Mn		Mn	A security		
Magnesium	331 ppm	******	Cu	O. a management of the		Cu		Cu			
			Mg			Mg		Мд			
Calcium	2916 ppm	*****	Lime			Lime					***************************************
Sodium	23 ppm	477	Lime		Antonia markateri (1971)	Lime		Lime			
Org.Matter	1.7 %	*****	Soil pH	Buffer pH	Cat	on Exchan	ge % Base	Saturat	on (Ty	pical Rar	nge)
Carbonate(CCE)			3011 pr	- Bullet pr		Capacity	% Ca	% Mg	% K	% Na	% H
0-6" 6-24"	0.16 mmho/cm 0.1 mmho/cm		0·6" <b>8.</b> 1			17.6 meq	(65-75) <b>82.9</b>	(15-20) <b>15.7</b>	(1-7)	(0°-5°) <b>0.6</b>	(0-5)



SUBMITTED FOR:

## **SOIL TEST REPORT**

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP **3-4E** RANGE

SECTION 25 QTRSE ACRES 25

PREV. CROP Grass/Pasture

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB ROA 1E0

W S

REF # 14041458 BOX # 0

LAB # NW35967

Date Sampled 07/28/2014

**GLEN CHUBEY** 

Date Received 07/31/2014

Date Reported 8/1/2014

Nutrie	ent In	The Soil	Interpretation	1st (	rop Choic	e	2nc	d Cro	p Choice		3rd Cr	op Che	ice
	0-6"	11 lb/ac		Y	ELD GOAL			YIELD	GOAL		YIE	LD GOAL	
6	6-24"	24 lb/ac	*****		0		Ō			LINE SILL	0		
0	)-24"	35 lb/ac		SUGGES	TED GUIDELI	NES	SUGGESTED		GUIDELINES	5	SUGGESTED GUIDEL		LINES
Nitrate				LB/ACR	E APPLICA	TION	N LB/ACRE		APPLICATI	DN L	LB/ACRE APP		CATION
C	Olsen	25 ppm	**********	N			N			N			American Control
Phosphorus				P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			Pac	)5		
Potassium		64 ppm	******	K <sub>2</sub> O			K <sub>2</sub> O			K2	0		
Chloride		No.		CI			Cì			C			
6	0-6" 5-24"	14 lb/ac 42 lb/ac	*************	S			S			s			avavaments
Sulfar		1		В			В			В			
Boron Zinc	-	0.8 ppm 10.21 ppm	***************************************	Zn		A CONTRACTOR OF THE PARTY OF TH	Zn		JACOBS DAD CO. T. C.	Zr	1	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	2000 A 20
Fron		35.2 ppm		Fe	The terms of the t	VIII.	Fe	traini,		Fe			
Manganese		3.3 ppm	******								.		
Copper	1	1.52 ppm		Mn			Mn			Mi	ſ		
Magnesium		561 ppm	****************	Cu			Cu			C		100	
				Mg			Mg			Mi			
Calcium		4866 ppm		Lime			Lime			Lift	e l		
Sodiam		31 ppm	****				L				1	<u> </u>	
Org.Matter		2.5 %	*****	Soil pH	Buffer pH	Catio	on Excha	ange	% Base	Satura	tion (Ty	pical Ra	nge)
Carbonate(CCE)	-			Jon ph	builet pn		Capacity	/	% Ca	% <b>M</b> g	% K	% Na	% Н
	0-6" 5-24"	0.21 mmho/cm 0.16 mmho/cm	**** ****	0-6" <b>8.1</b> 6-24" <b>8.3</b>			29.3 med	4	(65-75) <b>83.0</b>	(15-20) <b>16.0</b>	(1-7)	(0·5) <b>0.5</b>	(0-5)



SUBMITTED FOR:

### **SOIL TEST REPORT**

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 3-4E SECTION 25

RANGE

QTRSW ACRES 70

PREV. CROP Grass/Pasture

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION
2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB ROA 1EO

S

REF # 14041459 BOX #

LAB # **NW35968** 

Date Sampled 07/28/2014

**GLEN CHUBEY** 

Date Received 07/31/2014

Date Reported 8/1/2014

Nutrient In	The Soil	Interpretation	1st	Crop Choic	8	Zn	d Cro	p Choice		ard Cr	op Cho	ice
0-6"	19 lb/ac	VLow Low Med High	)	IELD GOAL			YIELD	GOAL		YIEL	D GOAL	W171111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6-24"	18 lb/ac	****		0			0	<b>1</b>		0		
0-24''	37 lb/ac	INNINCT CETTA	SUGGE	STED GUIDELIN	NES	SUGG	SESTED	GUIDELINES	SU	GGESTE	D GUIDEL	JNES
Nitrate		en e	LB/ACI	RE APPLICA	TION	LB/A	CRE	APPLICATIO	ON LE	/ACRE	APPLIC	CATION
Olsen	21 ppm	******	N			N			N N			ortyreactiffest Material Company
Phosphorus			P <sub>2</sub> O <sub>5</sub>			P2O5			P <sub>2</sub> O	5		
Potassium	82 ppm		K <sub>2</sub> O			K2O			K <sub>2</sub> C			
Chloride		The state of the s	СІ			CI			CI		1	
0-6" 6-24" Sulfur		*****	s			S			S			A SASTER CONTRACTOR CONTRACTOR
Boron	0.6 ppm	*****	В			В			В			
Zinc		*************	Zn			Zn			Zn			-
Iron	27.6 ppm	*****	Fe			Fe			Fe			
Manganese Copper		2.32.32.32.33.33.33.3	Mn			Mn			Mn	ĺ		-d-deleter
Magnesium	1.01 ppm 390 ppm	*****	Сп			Cu			Cu			
			Mg		0.100	Mg			Mg		200 mm	
Calcium	3522 ppm	*****	Lima			Lime			Lim			Control of the Contro
Sodium	30 ppm	***	Lime			Lillie .					1	
Org.Matter	2.2 %	*****	Soil pH	Buffer pH	Cati	on Excl	nange	% Base	Satura	ion (Ty	pical Rai	nge)
Carbonate(CCE)	a Automotive de la Constitución		Soit pri	builer pn		Capacit	ty	% Ca	% <b>M</b> g	% K	% Na	% Н
0-6" 6-24"	0.28 mmho/cm 0.14 mmho/cm		0-6" <b>7.9</b> 6-2 <b>4" 8.3</b>			21.2 me	q	(65-75) <b>83.1</b>	(15-20) <b>15.3</b>	(1-7) 1.0	(0-5) <b>0.6</b>	(0-5)

APPENDIX 9.5

		LIVES	TOC	K MANUR	E SPREADING	AGREEMENT	
Retween	n. Prairie Organic Laye	r Farms Ltd.		1 Jan A	= ->-	reafter referred to as	"Livestock Operator"
Detweet	(Please Prin			(Sign)	ature)	sicalitics leselied to as	Livestock Operator
And:	Al Robidoux			1	ELLA.	Hereafter referred to as:	
	(Please Prin	t)		(Signa	ature)	"Landowner" or	☐ "Land Renter"
Date:	Aug 13/14		_				
The dura	ation of this agreemer	nt is of	2	years, beginnin	g at the above date.		
Respor	nsibilities of the La	indowner o	or the	Land Renter			
Land F	Parcels selected	as potent	ial fie	lds to receiv	ve manure		
Field	Legal Location	(Check O	ne)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
		Owned R	Rented	(acres)	spreading (acres, exclusive of setback	(2)	Time
2	RL 45&46 - Rat Rive	r.		55	50.7	Canola	Fall
	Parish (N of Coulee SW 11-6-4E	- 6				Cariola	1 411
3	(S 1/2)	4		80	75	Soybeans	Fall
4	11-6-4E	1		80	78.8	Canola	Fall
5	NE 11-6-4E (S 1/4)	"Adams"		40	39.7	Canola	Fall
will ke will n agree time as s	pecified below by the Liv	any other relate ator of the date nutrient at a ra vestock Opera	ted reco tes those ate of \$ _ ator;	rds in his files; e fields will be ave	aifable for spreading  ☐ 1000 gal or ☐ tonne,	conditional to manure being inure application method (be	applied with the method and
Respor	nsibilities of the Li	vestock Op	perato	<u> </u>			
Field A	Application Detai	ls		_			
	Time of Applicatio Application Method		Spring Broadd Injectio	cast 🖙 E	Summer Fall Broadcast and incorporate v rrigation/Sprinkler	vithin 48 hours	
Applicat	t <b>or</b> Operator	C dig					
Custom A			ime of a	pplicator:			
The Live	estock Operator: (Cł	eck where	applica	ble/proposed	)		_
All I					he consent of the Landown	er and the Land Renter:	
10					able to both the Landowner		
AT .	•	-			ailable to both the Landow		
will ca	alculate the manure app	lication rate fo	or each f	field on the basis	of (check only one):		
	the soil test recom						
	the soil test recom						
D(10-:-	-			s per the Soil Fer	tility Guide (Manitoba Agric	ulture and Food) or the Farr	n Practices Guidelines for
I	ry/Hog/Poultry Producers rovide a proof of calibrat			reading equipme	ent;		
B						olication in volume and crop	nutrient (N, P, K);
27	•			-		ap(s) highlighting setbacks t	
B	-		-		owner and the Land Renter		

	Proirie Organia I as	or Forma	td	[/ ]. /L			
Betwee				/ Jin Co	He	ereafter referred to as "L	ivestock Operator"
And:	Al Robidoux	iiit)			The state of the s	proafter referred to an	
Allu.	(Please Pi	rint)		(Sign		"Landowner" or	l "Land Renter"
Date:		,		(-9.		201100111101 01 2	Tuna rener
	( )		5	ucom hoginain	as at the obeye date		
					ig at the above date.		
Respo	nsibilities of the L	_andowne	er or the	Land Renter			
Land I	Parcels selected	d as pote	ential fie	lds to recei	ve manure		
Field	Legal Location	(Chec	k One)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
		Owned	Rented	(acres)			Time
14a	NW 15-5-4E	The state of the s		80		Sayboans	Fall
	(N 1/2) SW 22-5-4F				10	Soybeans	
15	(S 1/2)	- W		80	80	Soybeans	Fall
17	SE 22-5-4E	***		80	80	Soybeans	Fall
	(3.112)						
☐ agre time as s	es to purchase manure specified below by the L	e nutrient at a Livestock Op	a rate of \$ . perator;	per	☐ 1000 gal or ☐ tonne, con		
agre as s will in Respon	es to purchase manure specified below by the L ncorporate manure with nsibilities of the L	e nutrient at Livestock Op hin 48 hours Livestock	a rate of \$ perator, of broadca	per per	☐ 1000 gal or ☐ tonne, con		
agre as s will in Respon	es to purchase manure specified below by the L ncorporate manure with nsibilities of the L	e nutrient at Livestock Op hin 48 hours Livestock	a rate of \$ perator, of broadca	per per	☐ 1000 gal or ☐ tonne, con		
agre as s will in Respon	es to purchase manure specified below by the lancorporate manure with maibilities of the LApplication Deta	e nutrient at Livestock Op hin 48 hours Livestock	a rate of \$ perator; of broadca Operato  Spring Broad	per st applications if	□ 1000 gal or □ tonne, con- agreed to as part of the manure  Summer □ Fall  Broadcast and incorporate within	e application method (below	
agre time as s will in Respon	es to purchase manure specified below by the Incorporate manure with nsibilities of the Lapplication Detained of Application Application Method	e nutrient at Livestock Op hin 48 hours Livestock	a rate of \$ perator; of broadca Operato  Spring Broad	per st applications if	□ 1000 gal or □ tonne, con- agreed to as part of the manure  Summer □ Fall  Broadcast and incorporate within	e application method (below	
agreelime as s will in Respon Field Applica Livestock	es to purchase manure specified below by the Incorporate manure with nsibilities of the LApplication Detained of Application Application Method stor	e nutrient at Livestock Op hin 48 hours Livestock	a rate of \$ perator; of broadca  Operato  Spring Broad  Injecti	per est applications if	□ 1000 gal or □ tonne, con- agreed to as part of the manure  Summer □ Fall  Broadcast and incorporate within	e application method (below	
agree as s will in Responsible Applica Livestock Custom	es to purchase manure specified below by the Incorporate manure with nsibilities of the Lapplication Detained Application Method ator  K Operator Applicator	e nutrient at Livestock Ophin 48 hours Livestock ails ion	a rate of \$ perator; of broadca  Operato  Spring Broad  Injecti  Name of a	per per st applications if	□ 1000 gal or □ tonne, con- agreed to as part of the manure  Summer □ Fall  Broadcast and incorporate within	e application method (below	
agretime as swill in Responsible Applica Livestock Custom / Anticipation	es to purchase manure specified below by the lancorporate manure with specified below by the lancorporate manure with specified below by the Lancorporate manure and the Lancorporate of Application Method stor and Applicator ed Manure Application	e nutrient at Livestock Op hin 48 hours Livestock ails ion	a rate of \$ perator; of broadca  Operato  Spring Broad  Injecti  Name of a	est applications if  r  cast Scast Scant Scan Scan Scan Scan Scan Scan Scan Scan	agreed to as part of the manural summer Fall Broadcast and incorporate within rrigation/Sprinkler	e application method (below	
agretime as s will in Respon Field A Applica Livestock Custom A Anticipate	(Please Print) Al Robidoux  (Please Print) (Please			e application method (below			
Applica Livestock Custom Anticipati	Prairie Organic Layer Farms Ltd.  (Please Print)  Al Robidoux  (Please Print)  (Please Print)  Area available for spreading (acres, exclusive of setbacks)  Area available for spreading (acres, exclusive of setbacks)  Al Robidoux  Al Robidoux  Area available for spreading (acres, exclusive of setbacks)  Al Robidoux  Al Robidoux  Area available for Sopheading (acres, exclusive of setbacks)  Al Robidoux  Area available for spreading (acres, exclusive of setbacks)  Al Robidoux  Area available for setbacks  Area available for spreading (acres, exclusive of setbacks)  Al Robidoux  Area available for spreading (acres, exclusive of setbacks)  Area available for spreading (acres, exclusive o		e application method (below n 48 hours				
Applica Livestock Custom Anticipate will if will if will if will if	In:Praine Organic Layer Farms Ltd.  (Please Print)  Al Robidoux  (Please Print)  (Signature)  Area available for spreading (acres, exclusive of setbacks)  Nominal Size (acres, exclusive of setbacks)  NW 15-5-4E  (N 1/2)  SW 22-5-4E  (S 1/2)  SW 22-5-4E  (S 1/2)  SW 22-5-4E  (S 1/2)  Bo Bo Bo Soybeans  Robidourent and any other related records in his files;  notify the Livestock Operator of the dates those fields will be available for spreading est to purchase manure nutrient at a rate of \$			n 48 hours  ond the Land Renter;			
Applica Liveslock Custom Anticipati Will p Will p	es to purchase manure specified below by the Incorporate manure with nsibilities of the LApplication Detainment of Application Method attor (Operator Application Application Method Manure Man	e nutrient at Livestock Ophin 48 hours Livestock ails ion Starting Date Check whee cords, but will sting and these	a rate of \$ perator; of broadca Operato Spring Broad Injecti Name of a le: re applica I not disclosse results with the results.	ast applications if  r  cast on pplicator:  able/proposed se them without the self of the	agreed to as part of the manuration of the Landowner and the Lando	n 48 hours  ond the Land Renter;	
Applica Liveslock Custom Anticipati Will p Will p	es to purchase manure specified below by the I ncorporate manure with nsibilities of the L Application Deta Time of Application Method Application Method Applicator ed Manure Application estock Operator: (Core prack of these receives all costs for soil test carry out a manure analysis acculate the manure application the statement of the service of t	e nutrient at Livestock Ophin 48 hours Livestock ails ion Starting Dat Check whe cords, but will sting and these elysis test and pplication ratio	a rate of \$ perator; of broadca Operato Spring Broad Injection Name of a le: re application of disclosuse results with the for each	est applications if  r  cast Scast S	agreed to as part of the manural summer Fall Broadcast and incorporate within trigation/Sprinkler  the consent of the Landowner and trailable to both the Landowner and trailable to both the Landowner and to (check only one):	n 48 hours  ond the Land Renter;	
Applica Liveslock Custom Anticipati Will p Will p	es to purchase manure specified below by the Incorporate manure with nsibilities of the LApplication Detained Time of Application Method attor (Operator Applicator ed Manure Application estock Operator: (Okeep track of these receives all costs for soil test recount the soil test recoun	e nutrient at Livestock Ophin 48 hours Livestock ails ion Starting Dat Check whe cords, but will sting and these elysis test and pplication rate	a rate of \$ perator; of broadca Operato Spring Broad Injection Name of a le:  re application of the results with the result of t	ast applications if  r  cast	agreed to as part of the manural summer Fall Broadcast and incorporate within rigation/Sprinkler  The consent of the Landowner and the both the Landowner and the condition of the Landowner and the consent of the Landowner and the condition of the Landowner and the consent of the Landowner and the consent of the Landowner and the condition of the Landowner and the consents of the condition of the Landowner and the condition of the condition of the Landowner and the condition of the condition of the Landowner and the condition of the condition of the Landowner and the condition of the condition	n 48 hours  ond the Land Renter;	
Applica Livestock Custom Anticipate will p will c	es to purchase manure specified below by the Incorporate manure with nsibilities of the LApplication Detained Application Method Application Method Application Method Applicator Method Applicator Method Me	e nutrient at Livestock Ophin 48 hours Livestock ails ion Starting Date Check whe cords, but will sting and these commendation commendation lity recomme	a rate of \$ perator; of broadca Operato  Spring Broad Injecti Name of a te: re applica I not disclose results we do the result we for each as for plant and for plant endations a	est applications if  r  cast	agreed to as part of the manural summer Fall Broadcast and incorporate within trigation/Sprinkler  The consent of the Landowner and the consent of the consent	n 48 hours  ond the Land Renter; If the Land Renter; and the Land Renter;	w).
Applica Livestock Custom Anticipate will p will p will c	es to purchase manure specified below by the Incorporate manure with nsibilities of the LApplication Detained Application Method Manure and Manure and Method Meth	e nutrient at Livestock Ophin 48 hours Livestock ails ion Starting Date Check whee cords, but will sting and these elysis test and pplication rate commendation commendation lity recomme ers in Manito	a rate of \$ perator; of broadca Operato  Spring Broad Injection Name of a le:  re application of the results with the for each this for plant in soft of plant and atoms a least series	ast applications if  r  cast cast on  applicator:  able/proposed se them without II will be made avail s will be requirer phosphorus requirer phosphorus requires s per the Soil Fer	agreed to as part of the manural summer Fall Broadcast and incorporate within trigation/Sprinkler  The consent of the Landowner and trailable to both the Landowner and trailable trailable trailable to both the Landowner and trailable traila	n 48 hours  ond the Land Renter; If the Land Renter; and the Land Renter;	w).
Applica Livestock Custom Anticipate Will p will p will c	es to purchase manure specified below by the Incorporate manure with nsibilities of the LApplication Detains application Method attor.  Application Method a	e nutrient at Livestock Ophin 48 hours Livestock ails ion Check whee cords, but will sting and these cords, but will still a still a still still a still a still still a still a still a still	a rate of \$ perator; of broadca Operato  Spring Broad Injection  Name of a de:  re application  Inot disclose results we do the results we for plant the for plant and a series manure spring manure spring the spring for plant and a series manure spring for plant and a series and a	ast applications if  r  cast	agreed to as part of the manural summer Fall Broadcast and incorporate within rigation/Sprinkler  The consent of the Landowner and railable to both the Landowner and ficheck only one):  The consent of the Landowner and railable to both the Landowner and railable to both the Landowner and ficheck only one):  The consent of the manural summary of the consent of the Landowner and railable to both the Landowner and railable to both the Landowner and ficheck only one):	e application method (below n 48 hours and the Land Renter; of the Land Renter; and the Land Renter; are and Food) or the Farm	w).  Practices Guidelines for
Applica Livestock Custom Anticipate will p will c	es to purchase manure specified below by the Incorporate manure with msibilities of the Landowner are specified below by the Incorporate manure with msibilities of the Landowner are specified below by the Landowner are specified below to the Landowner are specified below to the Landowner are specified below by the Landowner are specified by the Landow	e nutrient at Livestock Ophin 48 hours Livestock ails ion Starting Date Check whe cords, but will sting and these commendation commenda	a rate of \$ perator; of broadca Operato  Spring Broad Injecti Name of a te: re applica I not disclose results we do the result we for each his for plant his for plant endations a oba series manure sp Renter of c	est applications if  r  cast cast cast cast con capplicator: cable/proposed se them without the service on the basis nitrogen requirer phosphorus requirer phosphorus requires service or eading equipme thanges in anticip	agreed to as part of the manural summer Fall Broadcast and incorporate within trigation/Sprinkler  The consent of the Landowner and trailable to both the Landowner and trailable trailable trailable to both the Landowner and trailable traila	e application method (below n 48 hours and the Land Renter; d the Land Renter; and the Land Renter; are and Food) or the Farm	Practices Guidelines for trient (N, P, K);

Betwee	n: Praírie Organic Lay	er Farms	Ltd.	1 km Ct	He	ereafter referred to as "L	ivestock Operator"
	,	nt)		(Signa	duro)		•
And:	Al Robidoux			- Co	He	ereafter referred to as:	
		nt)		(Signa	ature)	"Landowner" or $\square$	] "Land Renter"
Date:	Aug 13/1	(Please Print) (Please Print) (Please Print) (Signature) (Please Print) (Please Print) (Signature) (Please Print) (Please Print) (Signature) (Please Print) (Please Prin					
The dur	ation of this agreemen	nt is of	<u> </u>	years, beginnin	g at the above date.		
Respo	nsibilities of the La	andown	er or the	Land Renter			
Land I	Parcels selected	as pote	ential fie	lds to receiv	/e manure		
Field						Cropping Intentions	Preferred Application
1 1010	Cogar Ecocitori			1	spreading	Cropping intentions	Time
	SW 1-6-3F	Owned	Remeu	}	(acres, exclusive of setbacks)		
6	3W 1-0-3E	W		115	115	Grain Corn	Fall
7	SW & NW 1-6-3E	No.		115	115	Grain Corn	Fall
	(3 1/2)			1	110		
agre ime_as s	es to purchase manure pecified below by the Li	nutrient at vestock O	a rate of \$ perator;	per	☐ 1000 gal or ☐ tonne, con		
agre me as s will in Respon	es to purchase manure in pecified below by the Lincorporate manure within sibilities of the Lincorporate of the Lincorporate of Application Detail Application Method	nutrient at vestock O n 48 hours vestock	a rate of \$ perator; of broadca Operato  Spring  Broad	per least applications if	agreed to as part of the manur  ummer Fall  roadcast and incorporate withi	e application method (belo	
agreeime as s will in Respon Field A Applica Livestock Custom A	es to purchase manure in pecified below by the Lincorporate manure within a policities of the Lincorporate of the Lincorporate of the Lincorporate of Application Detail Application Method tor  Operator Applicator	nutrient at vestock O n 48 hours vestock its	a rate of \$ perator; s of broadca  Operato  Spring  Broad  injecti	per lest applications if	agreed to as part of the manur  ummer Fall  roadcast and incorporate withi	e application method (belo	
agreeime as s will in Responsi	es to purchase manure in pecified below by the Lincorporate manure within sibilities of the Lincorporate manure within sibilities of the Lincorporate of Application Detail Time of Application Method tor Coperator Applicator ed Manure Application S	nutrient at vestock O n 48 hours vestock ils n	a rate of \$ perator; s of broadce  Operato  Spring Broad injecti  Name of a	per lest applications if	agreed to as part of the manur  ummer Fall  roadcast and incorporate withirigation/Sprinkler	e application method (belo	
agreeme as swill in Responsive Stock Custom Anticipate Custom Will purish puri	es to purchase manure pecified below by the Li pecified and the Li pecified Application Detail Time of Application Method tor a Operator Applicator ed Manure Application Sectock Operator: (C) seep track of these records all costs for soil testing arry out a manure analy	nutrient at vestock On 48 hours vestock its in Dame when dis, but willing and the esis test an	a rate of \$ perator; s of broadce Operato Spring Broad injecti Name of a te: ere applicate If not disclose results with the r	per lest applications if or Slocast Bloom It of the population of	agreed to as part of the manur  ummer Fall  roadcast and incorporate withir  rigation/Sprinkler  ne consent of the Landowner and able to both the Landowner and allable to both the Landowner.	in 48 hours  and the Land Renter;  d the Land Renter;	
agreeme as swill in Responsive stock custom inticipate will pure will pure will of the Live will pure will be a second or the Live will pure will be a second or the Live will pure will be a second or the Live will pure will be a second or the Live will pure will be a second or the Live will pure will be a second or the Live will be	es to purchase manure pecified below by the Li pecified and the Li pecified Application Method tor application Method tor application Method tor application Method tor application Sectock Operator: (Classep track of these records all costs for soil testing arry out a manure analy alculate the manure application to the manure application arry out a manure application and the manure application to the pecified arry out a manure application arry out a manure application to the pecified below by the Li pecified array out a manure application array and the pecified below by the Li pecified array out a manure application array and the pecified below by the Li pecified by the L	nutrient at vestock On 48 hours vestock its an Starting Da heck when sis test an slication ra	a rate of \$ perator; s of broadca  Operato  Spring Broad injecti  Name of a te:  Pere applicate If not disclose results with the result the for each	per	agreed to as part of the manur  The manuration of the manur  The manuration of the manur  The condition of the Landowner and alle to both the Landowner and alle to both the Landowner of (check only one):	in 48 hours  and the Land Renter;  d the Land Renter;	
agreeme as swill in Responsive stock custom inticipate will pure will pure will of the Live will pure will be a second or the Live will pure will be a second or the Live will pure will be a second or the Live will pure will be a second or the Live will pure will be a second or the Live will pure will be a second or the Live will be	es to purchase manure in pecified below by the Li proporate manure within a sibilities of the Li period and the Li perio	nutrient at vestock On 48 hours vestock lis on Glarting Da heck where ds, but will not and the esis test an elementation rangementation range	a rate of \$ perator; s of broadca  Operato  Spring Broad injecti  Name of a te: ere applicate: If not disclose results with the result the for each and for plant	ast applications if  If  Social Socia	agreed to as part of the manuration.  The consent of the Landowner analyte to both the Landowner of (check only one):  nents, or	in 48 hours  and the Land Renter;  d the Land Renter;	
agreeme as swill in Responsive Stock Custom Anticipate will be will consider a will be a	es to purchase manure in pecified below by the Li incorporate manure within insibilities of the Li Application Detail Time of Application Method tor a Operator Applicator ed Manure Application Sestock Operator: (Charge track of these recompany all costs for soil testing arry out a manure analy all culate the manure application the soil test recompany the soil test recompany all costs for soil testing arry out a manure analy all culate the manure application in the soil test recompany all costs for soil testing arry out a manure analy all culate the manure application in the soil test recompany and test recompany and the soil test recompan	nutrient at vestock On 48 hours vestock on 48 hours vestock its its en Starting Da heck where de the sistest an elication ramendation y recommendation y recommendation of the sistest and the	a rate of \$ perator; s of broadca  Operato  Spring Broad injecti  Name of a te: I not disclor se results v d the result te for each as for plant pendations a	per lest applications if or lest applications if lest applications if lest applicator:    able/proposed   se them without the will be made available will be made available in the basis nitrogen requirements phosphorus requirements in the lest application in the lest app	agreed to as part of the manuration.  The consent of the Landowner analyte to both the Landowner of (check only one):  nents, or	in 48 hours  and the Land Renter; d the Land Renter; and the Land Renter;	w).
agreeme as swill in Responsive stock custom inticipate will be will custom wil	es to purchase manure pecified below by the Lincorporate manure within ensibilities of the Lincorporate manure within ensibilities of the Lincorporate manure within ensibilities of the Lincorporate of Application Detail Time of Application Method  tor Coperator Cope	nutrient at vestock On 48 hours vestock its its en Carting Da heck where its test an elication ramendation y recommers in Manutch	a rate of \$ perator; s of broadca  Operato  Spring Broad injecti  Name of a te: Inot disclorate results with the result the for each the for plant the gradations a suba series	ast applications if  If  Second I	agreed to as part of the manuration.  Fall roadcast and incorporate within rigation/Sprinkler  The consent of the Landowner and able to both the Landowner of (check only one): the the contents, or irements, or tillity Guide (Maniloba Agricultum).	in 48 hours  and the Land Renter; d the Land Renter; and the Land Renter;	w).
agreeme as s will in Response	es to purchase manure in pecified below by the Li incorporate manure within insibilities of the Li Application Detail Time of Application Method for application Method for application Method for application Application Sectock Operator Application Sectock Operator: (C) are perfectly and a manure analy alculate the manure application of the soil test recommend the soil test recommend general soil fertility/Hog/Poultry Producer rovide a proof of calibra	nutrient at vestock On 48 hours vestock On 148 hours vestock disserting Da heck where the distriction rate mendation are mendation by recommendation or the distriction for the districtio	a rate of \$ perator; s of broadca  Operato  Spring Broad injecti  Name of a te: ere applicate If not disclose results where the series of plant and some some series are applicated as series are manure springer.	ast applications if  If  Sicast Boon Ir  applicator:  able/proposed) se them without the will be made available will be made available will be made available on the basis nitrogen requirement phosphorus requirements per the Soil Ference or adding equipments.	agreed to as part of the manuratummer  Fall  roadcast and incorporate within rigation/Sprinkler  The consent of the Landowner and able to both the Landowner and allable to both the Landowner of (check only one):  ments, or firements, or tility Guide (Maniloba Agricultumnt;	e application method (below in 48 hours and the Land Renter; d the Land Renter; and the Land Renter;	w).  Practices Guidelines
agreeme as swill in Responsive stock custom will custo	es to purchase manure in pecified below by the Lincorporate manure within insibilities of the Lincorporate manure within insibilities of the Lincorporate manure within insibilities of the Lincorporate manure of Application Detail Time of Application Method  tor  (Operator Application Seestock Operator: (Charles track of these reconsists arry out a manure analy all costs for soil testing arry out a manure analy alculate the manure application the soil test reconsists the soil test reconsists arry out a manure application of the soil test reconsists arry out a manure analy alculate the manure application of the soil test reconsists arry out a manure analy alculate the manure application of the soil test reconsists arry out a manure analy alculate the manure analy alculate the manure application of the soil test reconsists are soil testing the soil test reconsists are soil testing the soil test reconsists are soil testing the soil	nutrient at vestock On 48 hours vestock On 48 hours vestock its its en Starting Da heck where its test an elication ramendation y recommers in Manitotion for the I the Land	a rate of \$ perator; s of broadca  Operato  Spring Broad injecti  Name of a te:  Pre applicate applications applicate applications applicate applications application	ast applications if	agreed to as part of the manuration.  Fall roadcast and incorporate within rigation/Sprinkler  The consent of the Landowner and able to both the Landowner of (check only one): the the contents, or irements, or tillity Guide (Maniloba Agricultum).	in 48 hours  and the Land Renter; d the Land Renter; and the Land Renter; and the Land Renter;	w).  Practices Guidelines trient (N, P, K);



> Northwood: (701) 587-6010 Benson: (320) 843-4109

#### SOIL TEST REPORT

FIELD ID SAMPLE ID

FIELD NAMES of Coulee

COUNTY

TWP SECTION RANGE

QTR RL 45-46 ACRES

PREV. CROPWheat-Spring

SUBMITTED FOR:

AL ROBIDOUX

SUBMITTED BY: CA0418

**CARGILL-MORRIS** 2 MILE ROAD

**BOX 460** 

MORRIS, MB ROG 1KO

REF # 684705 LAB #

NW75996

BOX #

Date Sampled

Date Received 09/27/2013

Date Reported 10/11/2013

	trient In	The Soil	Interpretation	15	it Cr	op Choice		2n	d Cro	p Choice		3rd Cr	op Choice
					Ca	nola-bu		-	Soyt	peans			Oats
	0-6" 6-24"	12 lb/ac 21 lb/ac			YIE	LD GOAL	West and the second		YIELD	GOAL		YJE	LD GOAL
			±****		.50	) BU			50	BU		12	o eu
	0-24"	33 lb/ac		SUG	GESTE	ED GUIDELINES	5	SUG	GESTED	GUIDELINES	s	UGGEST	D GUIDELINES
Nitrate					Ban	nd/Maint.			Band	Maint.		Ban	rd/Maint.
	Olsen	2 ppm	2**	LB/	ACRE	APPLICATI	ON	LB/A	CRE	APPLICATIO	DN L	B/ACRE	APPLICATION
Phosphorus				N	142			N	***		к	87	
Folassium		165 ppm	******************	P2O5	58	Band *		P <sub>2</sub> O <sub>5</sub>	52	Band *	P <sub>2</sub> C	s 42	Band *
Chloride	0-24"	292 lb/ac	- 本在学工产生 白枣山及木甸 五色素水液溶 凝煌黑彩彩彩	KąO	2.3	Band *		κ₂0	75	Band *	K7(	23	Band *
2.11011111	0-6" 6-24"	,	本字 III 中 II	Cf		Not Availa	bla	Cl	O		CI	O	
Sulfur				s	15	band	:	S	٥		. S	0	
Boron		2.8 ppm	***************	8	D			ម	0		8	e	
Zínc Iron		* ******	本分字在其實非治有能之主章	<b>2</b> n	3	Band (Tria	al) ·	Zn	3	Band (Trial	Zr	3	Band (Trial)
Manganeso			· 人名法格·英格兰 医克尔克 医克尔克 医克尔克 医克尔克 医克尔克 医克尔克 医克尔克 医克尔	Fe	0		•	Fe	0		Fe	0	
Copper		,,	安治部名公司 非有有 申報 表在的 無於	Mn	0			Mn	0		t-ir	0	
Magnesium		1836 ppm	~~~~~~	Cu	0			Cυ	o		Cu	o	
Calcium		5805 ppm	******	Мg	0			Мд	٥		Mg	0	
Sodium Org.Matter			多左刀玄公本 古在李章恭明 新沙布雷斯斯	Lime	-			Lime			(im	e	•
Carbonate(CC	T61		工作工作力在在自己在各种重要的中心治疗。如此也										
200000000000000000000000000000000000000	0-6"	0.39 mmho/cm	"全日本大学的大社 在文学的大学的大学的《新闻》(1995年) 《文学的《新闻》(1995年)	Soil :	ıłi	Buffer pH		n Exca			saius at		pical Range)
ant Calka	6-24"		<b>海水素等溶除清水率次流水 发现</b>	ı	ſ	3	¥	apacit	Į.	% Ca	% Mg	% K	% N2 % H
Sot. Salts				0-6" 6 6-24" 8			4	15.3 med		(65-75) 64.1	(15-20) 33.8	(1-7) 0.9	(0-5) (0-5) 1.2

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

Crop 1: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertifizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil bests. Crop Removal: P205 = 45 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 2: \* Caution: Seed Placed Fertifizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is high based on the salt and carbonate levels. Crop Removal: P205 = 44 %20 = 75 AGVISE Band/ Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soykeans may respond to although on fields testing less than 60 lb/ac with a Madded soybean history.

Crop 3: \* Caution: Seed Placed Fettilizer Can Cause Injury \* Rang crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 30 K20 = Z3 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.



Northwood: (701) 587-6010 Benson: (320) 843-4109

## **SOIL TEST REPORT**

FIELD ID SAMPLE ID FIELD NAME COUNTY TWP 6

RANGE

PREV. CROP Wheat-Spring

45 S1/2 of ACRES SW

SUBMITTED FOR:

AL ROBIDOUX

SUBMITTED BY: CA0418

CARGILL-MORRIS 2 MILE ROAD

**BOX 460** 

SECTION

MORRIS, MB **ROG 1KO**  REF #

LAB #

684706

N

BOX #

NW76015

Date Sampled

Date Received 09/27/2013

Date Reported 10/11/2013

	trient In	The Sail	Interpretation	1:	st Cro	p Choice	21	d Cro	p Choice		ird Cr	op Choi	ice
	,				Can	nole-bu		Soy	beans)			Oats	
	0-6" 6-24"	18 lb/ac 24 lb/ac		AAM PARIS	YIEL	D GOAL		YIELI	GOAL		YJE	D GOAL	
			宇教斯尔森湖 学学		50	BU		50	BU		12	o eu	
	0-24"	42 lb/ac		suc	GESTE	D GUIDELINES	Sug	GESTE	GUIDELINES	SU	IGGESTE	D GUIDEL	INES
Mitrate					Band	S/Maint.		Band	/Maint.		Ban	d/Maint.	
	Olsen	5 ppm	<b>企業可多地東-本集</b>	LB/	ACRE	APPLICATION	LB/	ACRE	APPLICATION	LE	VACRE	APPLIC	CATION
Phosphorus				N	133		N	***		N	78		
Potassium		254 ppm	在新年本本本 中下华東北北 李清宗宗史史 東京 九年年代	P205	50	Band *	P2O5	46	Band *	P2O3	36	Ban	d *
Cnloride	0-24"	1912 (b/ac	****************	K <sub>7</sub> Ō	٥		K <sub>2</sub> O	σ		K <sub>2</sub> O	10	Ba (Start	and ter)*
	0-6" 6-24"		· · · · · · · · · · · · · · · · · · ·	. C1		Not Available	CI	٥		CI	0		
Sulfur				s	10	Band	5	0		s	0		
Boron Zinc			<ul><li>1 3 ** ** ** ** ** ** ** ** ** ** ** ** *</li></ul>	. 8	0		в	٥		В	0	•	
Tran			医西氏氏甲基 医巴里诺诺 医血液解析学 计智慧处理	Zn	3	Band (Trial)	Zn	3	Band (Trial)	Zn	3	Band (	(Trial)
Hanganese		1.5 ppm	******	Fe	0		Fc	0		·. Fe	0		
Copper		1.43 ppm	***********	Mn	0	•	nM .	٥	-	Mn	0		
Magnesium		2175 ppm	安徽教力中点 张春年年 中華 中华中华 李平子学 化丁	Cu	٥		Cu	0		Cu	٥	•	
Calcium		5320 ppm	*****		a	-		. 0			0		
Sodium			***************	Mg	ď		Mg	Ü		ì-ig			
Org.Matter		5.6 %	( 2 本的實際 在品面表表表表表 化放射管管 生女生会	Lime			Lima			Lime	:		
Carbonate(CC	0-6"		宋宗朱祁东张朱宗正长女章 ************************************	<b></b>		Cat	ion Excl	ange	% Base S	aturati	on (Tyl	oical Ran	ge)
Sol. Salts	6-24"		**************************************	Soil	pri 🖺	luffer pH	Capacit	¥	% Ca	% Mg	% K	% Na	% H
ron once				0-6" 8 5-24" \$	1		47.1 me	<b>q</b>	(65-75) ( 56.4	15-20) 38.4	(1·7) 1.4	(0-5) <b>3.8</b>	(G-5)

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

Crop 1: \*\* Chloride yield data is limited for this crop. \* 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: P205 = 45 K20 × 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of from chlorosis on soybeans on this field is high based on the salt and carbonate levels. Crop Removal: P2O5 = 44 R2O = 75 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 30 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and thon maintain them.



> Northwood: (701) 587-6010 Benson: (320) 843-4109

## **SOIL TEST REPORT**

FIELD ID (04 SAMPLE ID FIELD NAME COUNTY

SECTION.

TWP

RANGE 4E

N1/2

ACRES 80 of SW

PREV, CROPSovbeans

SUBMITTED FOR:

AL ROBIDOUX

SUBMITTED BY: CA0418

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

MORRIS, MB ROG 1KO REF # 717857 BOX #

LAB # NW92851

Date Sampled

Date Received 10/07/2013

Date Reported 10/11/2013

Nut	Blent In	The Soil	Interpretation	1.5	t Cro	p Choice	21	nd Cro	p Choice	3	rd Cro	op Cho	ice
1-2 commodition angular					Car	nola-bu		Wheat	r-Spring	TOTAL PROTECTION OF		Oats	
	0-6" 5-24"	8 lb/ac 9 lb/ac		4	YIEL	D GOAL		Y!ELC	) GOAL	and a second	YIEL	D GOAL	
			* <b>* *</b> .		50	80		60	BU	11.7	120	BU BU	
	0-24"	17 lb/ac		sus	GESTE	D GUIDELINES	SUC	GESTED	GUIDELINES	SU	<b>G</b> GESTE	D GUIDEL	INES
Witrate				1	Band	d/Maint.		Band	/Maint.	A CONTRACTOR OF THE CONTRACTOR	Ban	d/Maint.	
	Ołsen	9 ppm	******	LB/A	ACRE	APPLICATION	LB/	ACRE	APPLICATION	L8	/ACRE	APPLI	CATION
Phosphorus		6-		N	143		N	130		N	88		
Potassium		316 ppm	***************	P <sub>2</sub> O <sub>5</sub>	45	Band *	PJOS	38	. Sand ₹	. 8203	30	8an	nd *
·Chioride	0-24"	496 lb/ac	第次及存的表示を表示である水水を取る水水をおせる。	K2O	0		K20	10	Band (Starter)*	K <sub>2</sub> O	10		and ter)*
	0-6" 6-24"		*************	CI		Not Available	c)	0		. CI	. 0		. ,
Sulfur Baran		7.5		s	10	Band	s	٥		s	0		
Zinc			电水流表示 化水谷化水水 化水子水水 计水中电池水水平电池水水	В	0		8	٥		. в	0		
fron		17.1 ppm	***************	Zn	3	Bend (Trail)	Zn	3	Band (Trial)	Zn	3	Band (	(Trial)
Manganese		1.8 ppm	如果非常軍電 灰岩宗五方法 不全京東京	Гe	٥		Fe	0		Fe	0		
Copper		1.57 ppm	治療病傷性者 查察者者特洛 香港等半衛者 準	Mn	0		Mn	0		Min	0		
Hagneslym Calcium		. , , , , , , , , , , , , , , , , , , ,	在海水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	Cu	ø		Cu	0		Cu	0		
Sadium			*****	Mg	o		Mg	a		Мд	0	-	
Org.Matter		5.5 %	****************	Ume			Lime			Lime			
Carbonale(CC	Œ) <b>0-6</b> "		*****	Soil t	ald F	Ca Buffer pH	ation Exc		% Base	Saturati	on (Ty	oical Rac	nge)
Sol. Salls	6-24"	1.4 mmho/cm	各學者亦在在在本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本	myrit §			Capaci	ty	% Ca	% Mg	% K	% Na	% H
				0-5" 8 6-24" 8	1.2		47.2 m	≘q	(65-75) 64.5	(15·20) <b>32.4</b>	(1-7) 1.7	(0-5) 1.4	(0-5)

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

Crop 1: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. \* Mitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 45 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 38 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crep. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 30 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.



Northwood: (701) 587-6010 Benson: (320) 843-4109

SOIL TEST REPORT

(05 FIELD ID SAMPLE ID FIELD NAME COUNTY TWP

SECTION

RANGE

S1/4 of ACRES ΝE 40

11 PREV. CROPWheat-Spring

SUBMITTED FOR:

SUBMITTED BY: CA0418

CARGILL-MORRIS 2 MILE ROAD

**BOX 460** MORRIS, MB

REF # LAB # 684707 BOX #

5

NW75960

Date Sampled

AL ROBIDOUX

Date Received 09/27/2013

ROG 1KO

Date Reported 10/11/2013

	rient In	The Soll	Interpretation	15	t Cr	op Choice		2nd	d Cro	p Choice		erd Cr	op Choi	ice
					(0	anola-bu	_	and the second s	Soyl	oeans			Oats	
	0-6" 6-24"	16 lb/ac 15 lb/ac		and the same of the same	YIE	LD GOAL			YIELD	GOAL		YJE	LD GOAL	OFFICE AND ADDRESS
			***		5	6 BU			50	BU		1.2	0 BU	
	0-24"	31 lb/ac		SUG	GEST	ED GUIDELINE	ES	SUGG	SESTED	GUIDELINES	St	JGGESTE	ED GUIDEL	INES
litrate					Ba	nd/Maint.			Band	/Maint.		8an	nd/Maint.	
	Olsen	2 ppm	***	16/	ACRE	APPLICAT	TION	LB/A	CRE	APPLICATIO	DN L	B/ACRE	APPLI	CATION
Phosphiorus				. 10	144	4		N	***		N	89		
กมใจระโบท		246 ppn1	**********************	P2O5	58	. Band	¥	P <sub>2</sub> O <sub>S</sub>	52	Band *	P <sub>2</sub> O	42	Ваг	nd *
Litaride	0-24"	672 lb/ac	在水水坊 安全 大空光水水水 在在城市安全 电压电路	K₂O	23	Band <sup>3</sup>	¢	Κ <sub>2</sub> Ο	75	Band *	KyC	23	Ban	ąd ≉
	0-6" 6-24"		· · · · · · · · · · · · · · · · · · ·	CI		Not Avail	able	· a	0		CI	0		
Sulfur	0-24	300 110752		s	10	Band		s	0		S	0		
Boron		2.9 apm	************	8	0			В	0		8	o		
Zinc Iron			在政治外公司不要工事	Zn	, 3	Band (Tr	ail)	Zn	3	Band (Trai	1) Zn	3	Band	(Trial)
Mangamena			表面的食物	Гe	0	,		Fe	0		Fe	0		
Copper		.,	以存在社职者 化加瓦及工作 大麻椒素溶液 法	Mŋ	0			Mo	0		Mn	0		
tagnesium		2415 ppm	*************************************	Cu	٥		•	Cu	0		Cυ	٥		
Caldium		5672 ppm	*************	Mg	0			Pig	0		Мд	О		,
Sadium		, -	京京市 4 年 東京 2 年 日 2 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1	Lime	*			Lime			Lim	е		
Org.Matter Carhonate(CC	~F.)		中皮斯治療者 今在飲食不管 ぞ為かべ 繁原 で							n/ n				
2017. 1119:16:16 E F	0-6"	-	作的可有有 电电影 电电影 电电影 医电影 医电影 电电影 电电影 电电影 电电影 电电影	Soil	7H	Buffer pH	Cat	ion Exch Capacity			- Saturat			
Sol. Saits	6-24"	1.95 mmhc/cm	公本者以7 年 4 年 5 年 5 年 5 年 7 年 7 年 7 年 7 年 7 年 7 年 7		ı	1			•	% Ca	% Mg	% K I	รห์ %	% H
				0-6" 8 6-24" 8				50.9 770	7	(65-78) <b>55.7</b>	(15-20) <b>39.</b> 5	(1-7) 1.2	(0-5) 3.6	(0-5)

Crop 1: \*\* Chloride yield data is limited for this crops. \* Cautious Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high still tests. Crop Removal: PIOS = 45 K2O = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is very high based on the salt and carbonate levels. Crop Removals P205 = 4.6 M20 = 7.5 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range overmany years and then maintain them. Soybeans may respond to nitrogen on fields testing less than #O by/ac with a finited soybean history.

Crop 3: \* Caution: Seed Planed fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K dven on high soil tests. Crop Removal: P205 = 30 K20 = 23 AGNUE Band/Mediatemene guidelines will build P & K test levels to the madium range over many years and then maintain them.

40 28-0-0 33 5-15



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

Benson: (320) 843-4109

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID SAMPLE ID

FIELD NAME COUNTY

TWP 5

RANGE

SECTION 15 OTR NW/

N75 of

NE16

REF #

PREV. CROPWheat-Spring

SUBMITTED BY: CA0418

**CARGILL-MORRIS** 2 MILE ROAD

**BOX 450** MORRIS, MB

ROG 1KO

684709

BOX #

N

NW76020 LAB #

Date Sampled

AL ROBIDOUX

Date Received 09/27/2013

.....

Date Reported 10/11/2013

Soybeans Canola-bu Oats 0-6" 12 lb/ac YIELD GOAL TELD GOAL YIELD GOAL 5-24" 6 lb/ac 50 BU 50 BU 1.20 BU 0-24" 18 lb/ac SUGGESTED GUIDELINES SUGGESTED GUIDELINES SUGGESTED GUIDELINES Nitrate Band/Maint. Band/Maint. Band/Maint. LB/ACRE **APPLICATION** LB/ACRE APPLICATION LB/ACRE APPLICATION Olsen S DOM PERSONAL PROBERS Prosphorus ы N 157 M 102 Potassium: 465 ppm \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 45 Band  $P_2O_5$ Sand \* PoO<sub>5</sub> 31 Band \* P>O 0-24" Band K<sub>2</sub>O 0 K2O Ω K20 10 Chloride (Starter)\* 0-6" 26 1b/ac \*\*\*\*\*\*\*\*\*\*\*\*\*\* Not Available CI 0 CI ō C 6-24" 360 +1b/ac \*\*\*\*\*\*\*\*\*\*\*\* Solfur S 15 Band 5 5 Band (Trial) S 0 Borer 1.6 ppm \* 0 Ð В В В O Zinc 1.24 ppin \*\*\*\*\*\*\*\*\*\*\*\*\*\* Ζn ß 0 Zn Zn tren 44.9 ppm \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Manganese 1.9 ppm \*\*\*\*\*\*\*\*\*\*\*\*\* Fo Ð Fe 0 Fe O Copper 1.77 DDM \*\*\*\*\*\*\*\*\*\*\*\*\*\* Mn 0 0 Ha 'nίΩ Magnesium 2312 ppm \*\*\*\*\*\*\*\*\*\* Cυ Ġ Cu O Cи 0 Caldium 6219 ppm \*\*\*\*\*\*\*\*\*\*\*\*\*\* Ma 0 Ηg 0 f-fig o Sadium 177 ppm sees to ancert extent waters Org. Matter 5.7 % \* Ume Lime Lime Carbonate(CCE) 1.2 % \*\*\*\*\* % Base Saturation (Typical Range) Cation Exchange 0-6" 0.72 nimho/cm \*\*\*\*\*\*\*\*\*\*\*\*\*\* Buffer pH Soil pH 6-24" Capacity 1.59 mmho/cm \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* % Ca % Mg % K % Na % H Soi. Salts 0-6 7.6 52.3 med (65-75)(15-20)(1-7)10-51 (0-5)59.4 6-24" 8.2 36.8 2.3 1.5

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

Crop 1: \*\* Chloride yield data is limited for this crop. \* 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: P205 = 45 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P205 = 44 K20 = 75 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 3: \* Caution: Seed Placed Fertillzer Can Cauce Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2OS = 30 K2O = 23 AGVISE Band/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

Benson: (320) 843-4109

# SOIL TEST REPORT

FIELD ID SAMPLE ID

FIELD NAMEN of Dump Rd

COUNTY

TWP

RANGE 4E

SECTION

\$80 of ACRES 80

PREV. CROP Canola-bu

SUBMITTED FOR:

SUBMITTED BY: CA0418

CARGILL-MORRIS 2 MILE ROAD

**BOX 460** MORRIS, MB

ROG 1KO

REF # 684713

LAB #

BOX #

NW76011

Date Sampled

AL ROBIDOUX

Date Received 09/27/2013

Date Reported 10/11/2013

			Interpretation		st Cro	p Choice		2ni	d Cro	p Choice		3rd	Cro	p Cho	ce
					Whea	t-Spring	1	/	Soyl	peans	1		0	ats	
	0-6" 6-24"	14 lb/ac 9 lb/ac			YIEL	D GOAL			TIELL	GOAL			YIELD	GOAL.	
			****		60	80			50	BU			120	BU	
	0-24"	23 lb/ac		sug	GESTE	GUIDELINES	-	SUG	GESTED	GUIDELINES		SUGG	ESTEC	GUIDEL	INES
itrate					Band	/Maint.			Band/	/Maint.			Band	/Maint.	,
	Olsen	6 ppm	化甘蔗油甘取 世界分數	LB//	ACRE .	APPLICATIO	N	LB/A	CRE	APPLICATIO	אכ	LB/AC	RE	APPLI	CATION
osphorus				И	139			N	***			N	97		
otassium		449 ppm	*************	P2Os	39	Band *		P2O5	44	Band *	' P <sub>2</sub>	50°	34	Ban	id *
nloride	0-24"	600 lb/ac	西班古女子女 乔尔斯尔公司 水水水水水水水 海水水水水	€20	10	Band (Starter)*		K <sub>2</sub> O	0		к	<sub>7</sub> 0	10	Ba (Star	and ter)*
	0~6" 6~24"	,	化二甲基甲基苯甲基甲基甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲	CI	0			CI	0		٠.	Cl	0		
วเลบ กฤกษ				5	0			5	0			S	0		
nc			在我就知识 医水子氏病 医水子虫	8	0			В	0			В	0		
on			古水水香水果 化环烯子 化连连子子 经收益 医电影 医电影	Zn	2	Sand (Trial	1)	Zn	2	Band (Tria	1) 2	Zn	2	Band	(Trial)
anganese		2.1 ppm	化物质加容器 计准定线水槽 有歌光不知春	Fe	G	- 1		Fe	0		ş	Fe	O		
ipper		1.79 ppm	· · · · · · · · · · · · · · · · · · ·	řin	ឲ			Mp	0		4	4m	o		
ເພັນຮະເກເນ			李確按你立立 古水子母子母 非有水母母母 法分余年本本	Cu	0		•	Cu	0		(	Cu Cu	0		
Scium Glum		**	计保证法令法 医安全蛋白素 经专业专业 计多种电子 计字符计算	[ <b>-</b> [c	0			Мд	0		4	4g	Đ		
g.i-latter			48444444444444444444444444444444444444	Ume				Lime			. [1	me			
rhonale(CC	Œ)	2.5 %	家尔斯斯尔尔士斯塞尔斯塞											,	
	0-6" 6-24"	0.67 mmho/cm	在其面白上江 古伯斯安夫拉 對加斯森衛衛 表 致不分無學 新羅斯特泰典 數 表有原	Soil	он в	luffer pH		n Exch	-	% Base					
ol. Salts	0-24	U.24 Himns/cm	<ul><li>■1 ● 4 € 7 オルチャナル 前海ができまか。</li></ul>	ı		1		apacity		% Ca	% ₩g	1	K	% Na	% H
				0-5" 7 6-24" 8			5	0.7 mer	1	(65-75) 65.1	(15-70) 31,4		-7)	(0·5) 1.2	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Mony crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 38 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 2: "Caution: Seed Placed Fertifizer Can Cause Injury " Many crops may respond to a starter application of P 2 K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is high based on the salt and carbonate levels. Crop Removal: P205 = 44 K20 = 75 AGVISE Band/ Maintenance guidelines with build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P 8: K even on high soil tests. Crop Removal: P205 = 30 K20 = 23 AGVISE Band/Maintenance guidelines will build P 8 K test levels to the medium range over many years and them maintain them.



Soil Analysis by Agvise Laboratories (hrtt://www.agvise.com) Northwood: (701) 587-6010

Benson: (320) 843-4109

# **SOIL TEST REPORT**

FIELD ID SAMPLE ID FIELD NAMEN of Dump Rd COUNTY

TWP 5 22 SECTION

RANGE 4F

QTR S80 of SE ACRES

PREV. CROPWheat-Spring

SUBMITTED FOR:

SUBMITTED BY: CA0418

**CARGILL-MORRIS** 

2 MILE ROAD BOX 460

MORRIS, MB ROG 1KO RFF # 684711

BOX #

LAB # NW75997

Date Sampled

AL ROBIDOUX

Date Received 09/27/2013

Date Reported 10/11/2013

		The Soll	Interpretation	15	t Cr	op Choice		2nd	d Cro	n Choice		rd Cr	op Choi	ice
	D <b>-</b> 6"	20 lb/ac	Part A the Part of State of St			anola-bu				o GOAL			Oats D GOAL	
	6-24"	18 lb/ac		in risks (*)	116	LO GOAL			TACLL	GUAL		1160	O GOAL	
			<b>左右攻於下於</b> 兼		5	O BU	100		50	BU	1	12	) BU	
	0-24"	38 lb/ac		SUG	GEST	ED GUIDELINE	s	SUGG	SESTED	GUIDELINES	SL	IGGESTE	D GUIDEL	INES
Nitrate					Bəi	nd/Maint.			Band,	/Mains.		Ban	d/Maint.	
	Olsen	5 ppm	京公水水市市 飞车	LB//	ACRE	APPLICAT	TON .	LB/A	CRE	APPLICATIO	N LE	JACRE	APPLIC	CATION
Phosphorus				- 14	137	,		M	非末体	:	ſď	82	,	
Potassium		338 ppm	具元 化五元度 谷花字形成 医 安胶纸密数板 改善沙方应的	P205	50	Band *		P.O5	46	8and *	P <sub>2</sub> O <sub>5</sub>	36	Ban	ıd *
Chloride	0-24"	5288 lb/ac	*******	K <sub>2</sub> 0	0			K₂C!	0		К <sub>2</sub> О	10		and ter)*
	0-5" 6-24"		在水上在水水中全部水平中水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	CI		Not Avail	able	CI	0		CI	0		
Sulfur				s	10	Band		s	0		· s	O		
Boron Zinc			·张帝我写像像 水水冰雪水魚 東点 ·张帝 不工作者 李序 在在皮膚 《 五金樓本台 本意电影如大	8	o			в	0		В	0		•
Tron			************	Zn	2	Band (Tri	ia!)	Zn	2	Basd (Trial)	) Zn	2	Band (	(Trial)
Manganese		1.6 ppm	***********	Fe	0			Fe	D	,	Fe	٥		
Copper		1.86 ppm	***********	nМ	o			Mn	D		Ma	٥		
Magnesium		2539 ppm	********			,			a		Cu	0		
Calcium		6769 ppm	************	Cu	0			C∙n	U		Cu			
Section		1146 ppm	****************	Mg	0	•		Mg	. <b>0</b>		Mg	o		
Org.Matter		7.3 %	************	Lime		:	•	Lime			Lime	:		
Carbonate(CC	CE)	2.5 %	计反应文件 化电磁场加工							ille Barro	Codusanti	an (Tu	aleat One	3
	0-6" 6-24"		********************	Soil	н	Buffer pH		on Exch Capacity	_	% Ca	Saturati % Mg	% K	ישא ונטות גיו % אים	nge) % H
Sol. Salts				0-6" 7 6-24' 8			1	60.9 med	1	1	(15-20) <b>34.8</b>	(1-7) 3.4	(0-5) <b>8.2</b>	(0-5)

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

Crop 1: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests, High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K oven on high soil tests. High salt levels may decrease yields in portions of this field. The risk of the development of iron chlorosis on soybeans on this field is very high based on the salt and carbonate levels. Crop Removal: P205 = 44 K20 = 75 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them-Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 30 K2O = 23 AGVISE Band/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 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID 05 SAMPLE :D FIELD NAME

YTMUOD TWP

RANGE 3E

SECTION 1

QTRSW ACRES 115

PREV. CROP Canola-bu

6

SUBMITTED FOR:

SUBMITTED BY: CADALS

CARGILL-MORRIS 2 MILE ROAD

80X 460

MORRIS, MB ROG 1KO

PEF # [在民 建 684714 BOX #

NW75021

Date Sampled

AL ROBIDOUX

Date Received 09/27/2013

Date Reported 10/11/2013

Nutrient In	The Soil	Interpretation	1	st Cr	op Choic		25	id Cro	p Choice		3	rd Cr	op Cho	ice
		and they high	1	Whe	at-Spring	)		Soyl	beans				Oats	
0-6" 6-24"	30 lb/ac 45 lb/ac	1 * 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		115	EU GOAL			YIELO	JOAL			YIE	TO GOVE	
		************	Access Access no	60	BU			<b>5</b> 5	90	1		12	o eu	
0-24"	75 lb/ac		suc	GESTE	D GUIDELIN	es .	SUC	IGESTED	GUIDELINES		SU	GGESTE	o Guidel	LINES
Nitrale				San	d/Maint			Band,	Memt.	_   -		Ban	d/Maint.	
Olsen	23 ppm	*************	LB/A	CRE	APPLICA	YOIT	5.074	NORE	APPLICATIO	AE.	LB/	ACR8	APPLI	CATION
Phosphorus Potassium	700	1000	79	87			N	***			N	45		
	708 ppm	EZ TRXV R V K K R & S. S. S & R X 6 6 6 6 6 6 6	₽2O2	38	Band	•	F205	44	ಕಿನೂರ *		P <sub>2</sub> O <sub>5</sub>	30	Bar	9 <b>4</b> > .
0-24". Chinride	276 lb/ac	*****************	K <sub>0</sub> O	10	Starte:	_	K20	ø	1		K <sub>2</sub> O	1.0	Đa (Star	and ter)»
0-6" 6-24"	28 lb/ac 60 lb/ac	*******	Ci	e			Cı	ø	1	Contract of the Contract of th	CI	٥		·
Suitur			S	25	Band (Tr	rial)	S	5	Sand (Trial	}	5	5	ซิลกซ์ (	(Trial)
Sinc .		**********	B	٥			Ð	Đ		1	8	O	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
nes	alls Team-and	**************	Zn	0			7,74	0			20	0		
Yanganese	1.2 ppm	********	ře	Đ	, ,,		Fee	5			l'e	0		
Соррег	2.1% ppm	******	Mn	0	•		Mo	Ð			Ma	0		
Magnesium Calcium	2602 ppm		Ct2	0			Co	0			Cu	0	•	
Sodkum	7111 ppm	X68554242652742654	Mg	0			05g	a		1	Mg	0		
Irg.Natter		******	Lime				Liene				Lime			
Carbonate (CCE)	A					Buch			% Bruss	Satu	ratio	n (TVI	nical Rac	ige)
0-6" 6-24"	0.88 mmho/cm 6.64 mmho/cm	***********	Soil	100	Buffer pH		on Exch Capacit		% Ca	% M	-	% K	% Na	% H
A CONTRACTOR OF A		A service on the first service of the service of th	6-6" 7 6-34" 8	i			59. <b>s</b> me	q	(65-7%) 59.7	(15-26 36.4		3.0	(6-5) <b>0.9</b>	(63-53

General Cumments: Texture is not estimated on night pH soils.

Crop 1: \* Cardian: Seed Placed Pertilizer Can Cause Injury \* Many crops may respond to a starter application of P. & K even on high soil tests. Crop Removal: P205 = 38 K2O = 23 AGVISE Band/Printenance guidelines will build P & K test levels to the medium range over many years and their maintain them.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of # & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is high based on the salt and carbonate levels. Crop Rememb P205 ± 44 K20 = 75 ARVISE Read/Maintenance guidelines will build P & K test levels in the medium range over many years and then maintain them.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on with soil tests, Crop Remova: P205 = 30 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain (bem.



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109

## SUBMITTED FOR:

AL ROBIDOUX

**SOIL TEST REPORT** FIELD ID SAMPLE ID FIELD NAME COUNTY RANGE 3E TWP QTR S1/2 of NW ACRES 115 SECTION PREV. CROP Canola-bu

SUBMITTED BY: CAC418

CARGILL-MORRIS

2 MILE ROAD

BOX 460 MORRIS, MB

REF # 684715 L48 # NW76007

BOX a

Date Reported 10/11/2013

Date Sampled

Date Received 09/27/2013

Nutrient	In The Soil	Interpretation	1.5	it C	rop Choic		20	d Cro	p Chaice		3	rd Cr	op Cha	ice
		是从 Fee High	(	Wit	eat-Spring			Soy	beans	10000		and market and	Oats	
0-6 6-24				YI	ELD GOAL			TELL	GOAL			Y75	LD GGAL	
		\$2.00 m		4	50 BU			50	80			12	eo Bu	
0-24	21 lb/ac		SUG	GES	TEO GUIDELIN	ES	SUG	GESTED	GUIDELINE	5	SU	GEST	ED GUIDE	UNES
Mirate				Ba	wod/Maint.			Band	Maint.			Вая	nd/Males.	· · · · · · · · · · · · · · · · · · ·
Oise	*	***********	1.B/	CRE	APPLIC4	TION	LB//	CRE	APPLICAT	ION	(3)	ACRE	APPL	CATION
Phospharus	10 pp		N	14	1		14	***			143	99		
Potassium	573 ppm	*************	P <sub>2</sub> G <sub>5</sub>	38	8 Bend	7	PgOs	44	Band *		A.O.	, 30	Bar	nd *
0-24 Chloride	76 lb/ac	*********	K <sub>2</sub> O	10	Starts		K20	С			K,O	10		and rter)*
0-6 6-24		*****************	Cł	0		2	ci	0		A	O .	0		
Sulfur	1.5 open	************	s	û			5	U		100	- 5	٥		41.5
Zinc		*************	8	0			B	0			8	0		
Iron	49.0 ppm	2505554454575444444444	Zn	σ			750	٥.			Ze	ø		
Manganese	1.7 ppm	************	Fe	0			Fee	O			Fe	0		
Copper Magnesium		*************	Mit	0			ttn	0			Mn:	10		
Calcium		****************	Cu	. 0			On	e.	_	j	Cu	. 0		
Sodjum	100 ppns	4204893X38XX44X	Mg	D	.,		Mg	0		j	Mg	0		
Org.Matter	5.8 %	**************	Lime				Lime			. }	time			
Carbonate(CCE)	100	*******		1		Car			% Bas	e Sal	turatio	n (Tw	pital Rai	tene
9-6 6-24 Sot Salts		***********	Soll p	163	Buffer pit		on Exch Capacit	-	% Ca	-		% K	% Na.	49 H
		The state of the s	0-6" 7	6			51.£ me		(65-25)	835.5	20)	(1-7)	(0-5)	(0-5)

General Comments: Clays/Clay Learns (CEC range = 30+) (Fine)

Crop 1: \* Castion: Seed Placed Fertilizer Cars Case Injury \* Many crops may respond to a starter application of P&K even on high self-lesses. Crop Remarks: P205 = 38 K20 = 23 AGVISE Band/Maintenance guidelines will held P & K test levels to the medium range over many years and then maintain them:

Crop 2: "Caution; Seed Placed Fertilizer Can Cause Injury "Many crops may respond to a starter application of P.& K even on high soil tests. The risk of the starterpment of Iron chlorosis on soybeans on this field is moderate based on the subtand carbonate levels. Crop Sendual; 9205 = 94 K20 = 75 Across Beng/ Szeintenance guidelines will build P.& K test levels to the medium range over many years and then maintain thems. Soytistans: may respond to nitragers on fiction testing less than 68 lb/acrotth a limited soybean history.

Crop 3: \* Caution: Seed Placed Festilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even ad high sold fests. Crop Recognition P205 = 30 K2C) = 23 AGY/SE Bond/Maintenance guidelines will build P & K test levels to the median range over namy years and then maintain them.

Between:	Prairie Organic La	yer Farms	Ltd.	1 Son A	H	ornafter referred to a u	
	(Please P	rint)		of Sign	nature) LIA	ereafter referred to as "	"Livestock Operator"
And:	Martin Reutter			Must (	YAMMU H	ereafter referred to as:	
	(Please P	rint)		(Sign	falure)	"Landowner" or [	☐ "Land Renter"
	Aug 13/14		ine)				
The durat	tion of this agreem	ent is of _	5	years, beginnin	ig at the above date.		
Respons	sibilities of the L	andown					
	arcels selected					-	
Field	Legal Location		k One)	Nominal Size	Area available for	Cropping letestions	1 5 4 () 3
		Owned	Rented	(acres)	spreading	Cropping Intentions	Preferred Application Time
11 & 12	SE/SW/NE/NW	W.	1,10,11,00	375	(acres, exclusive of setbacks)	01	
13	18-6-4E	W		313	374.0	Canola	Fall
	NW 7-6-4E			95	94	Grain Corn	Fall
14	NE 7-6-4E	V		115	115	Grain Com	Fall
15	SW 7-6-4E	20		135	133.5	Grain Corn	Fall
will noti agrees me as spe will inco	orporate manure with	rator of the nutrient at a ivestock Op in 48 hours	dates those a rate of \$ _ erator; of broadcas	fields will be ava	ailable for spreading  1000 gal or  tonne, cond		
will noti agrees me as spe will inco respons	ify the Livestock Ope to purchase manure cified below by the L proprate manure with ibilities of the Li	nator of the nutrient at a livestock Op in 48 hours	dates those a rate of \$ _ erator; of broadcas	fields will be ava	☐ 1000 gal or ☐ tonne, cond		
will noti agrees me as spe will inco cespons field Ap	ify the Livestock Ope to purchase manure edified below by the L prograte manure with ibilities of the Li eplication Deta	nator of the nutrient at a livestock Op in 48 hours ivestock	dates those a rate of \$ _ erator; of broadcas	fields will be ava	☐ 1000 gal or ☐ tonne, condagreed to as part of the manure		
will noti agrees me as spe will inco cespons field Ap	ify the Livestock Ope to purchase manure cified below by the L proprate manure with ibilities of the Li	rator of the nutrient at a rivestock Op in 48 hours ivestock of its	dates those a rate of \$_ erator; of broadcas  Operator  Spring  Broadc	per [ st applications if a	□ 1000 gal or □ tonne, condagreed to as part of the manure	application method (belo	
will noting agrees as specified as specified Ap	ify the Livestock Ope to purchase manure cified below by the L prorate manure with ibilities of the Li plication Deta Time of Application Application Method	rator of the nutrient at a rivestock Op in 48 hours ivestock of its	dates those a rate of \$ _ erator; of broadcas  Operator  □ Spring	per [ st applications if a	☐ 1000 gal or ☐ tonne, condagreed to as part of the manure	application method (belo	
will noti agrees ime as spe will inco Respons Field Ap	ify the Livestock Ope to purchase manure edified below by the L prograte manure with ibilities of the Live plication Deta Time of Application Application Method	rator of the nutrient at a rivestock Op in 48 hours ivestock of its	dates those a rate of \$_ erator; of broadcas  Operator  Spring  Broadc	per [ st applications if a	□ 1000 gal or □ tonne, condagreed to as part of the manure  □ Tall  □ Tall  □ Tall  □ Tall  □ Tall  □ Tall	application method (belo	
will noting agrees me as specific me	ify the Livestock Ope to purchase manure ecified below by the L prograte manure with ibilities of the Li plication Deta Time of Application Application Method r perator	rator of the nutrient at a rivestock Op in 48 hours ivestock of its	dates those a rate of \$_ erator; of broadcas  Operator  Spring Broadc Injectio	per [ st applications if a	□ 1000 gal or □ tonne, condagreed to as part of the manure  □ Tall  □ Tall  □ Tall  □ Tall  □ Tall  □ Tall	application method (belo	
will noting agrees as special will inconsisted Applicator vestock Opustom Appniticipated I	ify the Livestock Ope to purchase manure to purchase manure to purchase manure to purchase manure with tibilities of the Li tipilication Deta Time of Application Application Method r perator Unicator Manure Application S	rator of the nutrient at a rivestock Op in 48 hours vestock of its on	dates those a rate of \$_erator; of broadcas  Operator  Spring Broadc Injection  Name of ap	e fields will be ava	☐ 1000 gal or ☐ tonne, condagreed to as part of the manure  ummer Fall roadcast and incorporate within igation/Sprinkler	application method (belo	
will notice agrees agrees will inconsisted Applicator vestock Opposition Applicator Appl	ify the Livestock Ope to purchase manure cified below by the L proporate manure with ibilities of the Li plication Deta Time of Application Application Method r perator blicator Manure Application S tock Operator: (Cl	rator of the nutrient at a livestock Opin 48 hours vestock (its on the literature of	dates those a rate of \$ _ erator; of broadcas  Operator  Spring Broadc Injection  Name of ap	per [ st applications if a  St ast Director: Directors  State of the s	□ 1000 gal or □ tonne, condagreed to as part of the manural department of the manural departmen	application method (below	
will noting agrees me as speriments will income as speriments will income as speriments. It is a speriments as a speriments and a speriments are also as a speriments are also as a speriments. It is a speriments are also as a speriments are also as a speriments are also as a speriments. It is a speriments are also as a speriments. The also are also as a speriments are also as a speriment are also as a speriments are also as a speriments are also as a speriments are also as a speriment are also as a speriments are also as a speriment are also as a spe	ify the Livestock Ope to purchase manure to purchase of the Liveston Deta Time of Application Application Method True perator Solicator Manure Application Solicator To purchase of these recores To purchase of these recores The purchase of	nutrient at a rivestock Op in 48 hours ivestock of its on the rivestock of its	dates those a rate of \$_erator; of broadcas  Operator  Spring Broadc Injection  Name of ap  e applicate  not disclose	per [ st applications if a  st applications if a  st applications if a  st applications if a  plicator:  plicator:  ple/proposed)	□ 1000 gal or □ tonne, condagreed to as part of the manure  ummer □ Fall readcast and incorporate within igation/Sprinkler	application method (below	
will notice a specific process of the control of th	ify the Livestock Ope to purchase manure to purchase of the Live purchase to purchase of the Live purchase to purchase of the purchase to purchase of the purchase to purchase of the purchase of the purchase of the purchase to purchase of the purchase of t	nutrient at a revivestock Op in 48 hours ivestock of in 48 hours ivestock of its in a review of the interview of the intervie	dates those a rate of \$_erator; of broadcas  Operator  Spring Broadc Injectio  Name of ap  e applicat and disclose	per [ st applications if a  st applications	□ 1000 gal or □ tonne, condagreed to as part of the manure  □ Tall  □	application method (below 48 hours  d the Land Renter; the Land Renter;	
will notice a grees me as special will income a will income a special will income a will income a will a pplicator period of the company of the company and the company and the company are company are company and the company are company are company and the company are company and the company are company are company and the company are company and the company are company and the company are company are company and the company are company are company and the company are company are company and the company are company are company are company are company are company and the company are company are company and the company are company are company are company and the company are company are company are company are company are company and company are company are company and company ar	ify the Livestock Ope to purchase manure to purchase of the Live purchase to purchase of the Live purchase to purchase of the purchase to purchase of the purchase to purchase of the purchase of the purchase of the purchase to purchase of the purchase of t	nutrient at a revivestock Op in 48 hours ivestock of in 48 hours ivestock of its in a review of the interview of the intervie	dates those a rate of \$_erator; of broadcas  Operator  Spring Broadc Injectio  Name of ap  e applicat and disclose	per [ st applications if a  st applications	□ 1000 gal or □ tonne, condagreed to as part of the manure  □ Tall  □	application method (below 48 hours  d the Land Renter; the Land Renter;	
will notice will keep will carry	ify the Livestock Ope to purchase manure to purchase of the Live purchase to purchase of the Live purchase to purchase of the purchase to purchase of the purchase to purchase of the purchase of the purchase of the purchase to purchase of the purchase of t	rator of the routrient at a fivestock Opin 48 hours vestock fils on litarting Date deck where des, but will ring and these sis test and	dates those a rate of \$ _ erator; of broadcas  Operator  Spring Broadc Injection  Name of ap e applicate and disclose a results will the results	per [ st applications if a  St ast Shr plicator:  ple/proposed) them without the libe made availat will be made availat will be made availat will be made available.	□ 1000 gal or □ tonne, condagreed to as part of the manure  □ Fall  □ roadcast and incorporate within igation/Sprinkler  □ consent of the Landowner and ole to both the Landowner and illable to both the Landowner are	application method (below 48 hours  d the Land Renter; the Land Renter;	
will notice will seep will carry will carry will calcular agrees me as speed will seep as speed as spe	ify the Livestock Ope to purchase manure to purchase of the Live to purchase of the Live to purchase of the purchase to purchase of the purc	rator of the nutrient at a rivestock Op in 48 hours vestock of its on the nutrient of the nutr	dates those a rate of \$_erator; of broadcas  Operator  Spring Broadc Injection  Name of ap  e applicate a results will the results of for each field.	per [ st applications if a st	□ 1000 gal or □ tonne, condagreed to as part of the manure  ummer □ Fall  roadcast and incorporate within igation/Sprinkler  a consent of the Landowner and illable to both the Landowner are f (check only one):	application method (below 48 hours  d the Land Renter; the Land Renter;	
will notice agrees me as specific will income as specific will income agrees. I will cate a specific agree a	ify the Livestock Ope to purchase manure with tibilities of the Li tipilication Deta Time of Application Application Method  r perator Manure Application S tock Operator: (Cl p track of these recor all costs for soil testir y out a manure analysulate the manure app	rator of the nutrient at a rivestock Op in 48 hours vestock of the nutrient at a rivestock of the nutrient of	dates those a rate of \$_erator; of broadcas  Operator  Spring Broadc Injection  Name of ap  e applicate a results will the results for each fier	per [ st applications if a st	□ 1000 gal or □ tonne, condagreed to as part of the manure  □ Fall □ roadcast and incorporate within igation/Sprinkler □ to both the Landowner and □ lable to both the Landowner are f (check only one): □ tonne, condagreed to the manure	application method (below 48 hours  d the Land Renter; the Land Renter;	
will notice a grees me as special will income a special will income a special will application of the composition of the compos	ify the Livestock Ope to purchase manure with tibilities of the Liveston Detail Time of Application Application Method  r perator plicator Manure Application S tock Operator: (CI perack of these recorn all costs for soil testing tout a manure analyty the soil test recom the soil test recom general soil fertility general soil fertility general soil fertility	rator of the nutrient at a rivestock Op in 48 hours vestock of its in a reck where do, but will rate and these is test and dication rate mendations recommen.	dates those a rate of \$ _ erator; of broadcas  Operator  Spring Broadc  Injectio  Name of ap  e applicate not disclose a results will the results for each fiel for plant pi dations as a	per [ast applications if a st applications if a st applications if a st applications if a st ast ast ast ast ast ast applicator:  ple/proposed)  them without the labe made available if the basis of trogen requirements applications requires the strongen requirements applications are strongen requirements.	□ 1000 gal or □ tonne, condagreed to as part of the manure  ummer □ Fall roadcast and incorporate within igation/Sprinkler  a consent of the Landowner and ple to both the Landowner are f (check only one): ents, or ements, or	d the Land Renter; the Land Renter; the Land Renter; the Land Renter;	w).
will notice as speed as speed will income as speed will income as speed as	ify the Livestock Ope to purchase manure to purchase of the Li	rator of the routrient at a fivestock Opin 48 hours vestock fils on litarting Date deck where des, but will roug and these sis test and dication rate mendations mendations recommends in Manitoba	dates those a rate of \$ _ erator; of broadcas  Operator  Spring Broadc Injection  Name of ap a polical and disclose a results will the results of for plant no dations as a series	per I st applications if a st	agreed to as part of the manure  Fall  roadcast and incorporate within  igation/Sprinkler  a consent of the Landowner and  ple to both the Landowner and  ilable to both the Landowner are  f (check only one):  ents, or  ements, or  ity Guide (Manitoba Agriculture)	d the Land Renter; the Land Renter; the Land Renter; the Land Renter;	
will noting a grees me as spe in a grees me as spe in a grees me as spe in a gree in a	ify the Livestock Ope to purchase manure to purchase of the Li toplication Deta Time of Application Application Method  r perator Unicator Manure Application Setock Operator: (Ci perack of these recore all costs for soil testir r out a manure analysulate the manure app the soil test recom the soil test recom general soil fertility og/Poultry Producers de a proof of calibratic	rator of the rutrient at a rivestock Op in 48 hours vestock of its in a reck where dis, but will rug and these sis test and lication rate mendations recomment in Manitobs on for the manitobs on for the manito of	dates those a rate of \$_erator; of broadcas  Operator  Spring Broadc Injection  Name of ap  e applicate a results will the results of for plant of dations as a series annure spre	per [ st applications if a st	□ 1000 gal or □ tonne, condagreed to as part of the manure  agreed to as part of the manure  Fall  roadcast and incorporate within igation/Sprinkler  a consent of the Landowner and ble to both the Landowner and ilable to both the Landowner ar f (check only one): ents, or ements, or ity Guide (Manitoba Agriculture)	application method (below 48 hours  d the Land Renter; the Land Renter; ad the Land Renter; and Food) or the Farm	w).  Practices Guidelines for
will noting agrees ime as specime	ify the Livestock Ope to purchase manure to purchase of the Li to purchase of the Li to purchase to p	rator of the rutrient at a rivestock Op in 48 hours vestock of the rutrient of	dates those a rate of \$_ erator; of broadcas  Operator  Spring Broadc  Injectio  Name of ap  e applicat not disclose a results will the results for each fiel for plant pi dations as pa a series nanure spree enter of cha	per I st applications if a st	agreed to as part of the manure  Fall  roadcast and incorporate within  igation/Sprinkler  a consent of the Landowner and  ple to both the Landowner and  ilable to both the Landowner are  f (check only one):  ents, or  ements, or  ity Guide (Manitoba Agriculture)	application method (below 48 hours  d the Land Renter; the Land Renter; ad the Land Renter; and Food) or the Farm	Practices Guidelines for

		LIVE	STOC	K MANUR	E SPREADING AC	REEMENT	
Betwee	n: Prairie Organic La	yer Farms	Ltd.	1 Jan G		ereafter referred to as "Li	vestock Operator"
Bottion	(Please Pr			// (Sign		, out (01 10 10 10 10 10 10 10 10 10 10 10 10 1	voolook operator
And:	Martin Reutter			1/1/11/11	L XMATTLE HE	greafter referred to as:	
	(Please Pr	int)		(Sign	ature)	"Landowner" or 🗆	"Land Renter"
Date:	Aug 13/14						
The dur	ration of this agreeme	ent is of _	5	years, beginnin	g at the above date.		
	nsibilities of the L						
Land	Parcels selected	as pote	ential fie	lds to receive	ve manure		
Field	Legal Location	(Chec	k One)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
-		Owned	Rented	(acres)	spreading (acres, exclusive of setbacks)		Time
16	SE 7-6-4E	200		195	194.7	Canola	Fall
-	1	-					
agre time as s	specified below by the L	nutrient at ivestock Op in 48 hours	a rate of \$ perator; of broadca	per per stapplications if	☐ 1000 gal or ☐ tonne, con- agreed to as part of the manur		
	Application Deta			7			
	Time of Application Application Method		☐ Spring ☐ Broad ☐ Injecti	cast 🤯 E	Summer Fall Broadcast and incorporate withingation/Sprinkler	n 48 hours	
Applica		1					
	k Operator Applicator	(B)	Name of a	onlicator:			
Anticipat	ted Manure Application	Starting Da					
Thath	restock Operator: (C	hook who	ro analia	hlefaranesad	1		
15					he consent of the Landowner a	nd the Land Renter	
					able to both the Landowner and		
		-			allable to both the Landowner		
	calculate the manure ap					and the Edna Norther,	
-2 WIN V	the soil test reco						
	the soil test reco						
	☐ general soil fertil	ity recomme	endations a		tility Guide (Manitoba Agricultu	re and Food) or the Farm	Practices Guidelines for
	iry/Hog/Poultry Produce			sending carden-	nt.		
12	provide a proof of calibration					tion to unione and any and	minut (N. D. IO.
W =	Annual Contraction of the second				ated dates and rates of applica		
					grologist, along with field map(s		iuadi ve,
F? MIN	provide a copy of overal	i manure m	anagement	high to the rayo	owner and the Land Renter, if	applicatio.	

		LIVES	TOC	K MANUR	E SPREADING AC	GREEMENT	
Retween	n: Prairie Organic Lay	er Farms Ltd		1/2 /6	ш,	ereafter referred to as "L	incestants On and the M
DOMOGI	(Please Pr			An (Sjøn	alure)/	stediter referred to as L	ivestock Operator
And:	Martin Reutter			Mant	18 18-4-11	ereafter referred to as:	
3,00,00	(Please Pr	int)		(Sign	17 37 67 77	The state of the s	"Land Renter"
Date:	Aug 13/14						
The dura	ation of this agreeme	,	5	vears, beginnin	g at the above date.		
_	nsibilities of the L				•		
Land F	arcels selected	as poten	tial fie	lds to recei	ve manure		
Field	Legal Location	(Check C	One)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
		Owned F	Rented	(acres)	spreading (acres, exclusive of setbacks)		Time
17	RL 14, 15, 16	***,		40	40	Grain Com	Fall
	(8-6-4E)						
Respor	sibilities of the L	ivestock O			agreed to as part of the manur	e application method (belo	wj.
rieiu -			-		/		
	Time of Application Application Method		Spring Broad Injection	cast 🤯 B	Summer & Fall Broadcast and incorporate within rigation/Sprinkler	n 48 hours	
Applicat	for	-	injecti	011 🗀 11	ngalion/opinikier		
	Operator	亚"					
Custom A Anticipate	opplicator and Manure Application			pplicator:			
The Live	estock Operator: (C	heck where	applica	able/proposed			-
15					ne consent of the Landowner a	nd the Land Renter:	
					able to both the Landowner and		
1					ailable to both the Landowner		
1.3	alculate the manure ap					202 204 200 00000	
32. 1.11. 2.	☐ the soil test recor				Control of the Control		
	the soil test recor						
					tility Guide (Manitoba Agricultu	re and Food) or the Farm	Practices Guidelines for
	y/Hog/Poultry Produce	rs in Manitoba	series				
4	ovide a proof of calibra						
X-					ated dates and rates of applica		
					prologist, along with field map(s		bserve;
Will pr	ovide a copy of overall	manure mana	gement	plan to the Land	owner and the Land Renter, if a	applicable.	



# SOIL TEST REPORT

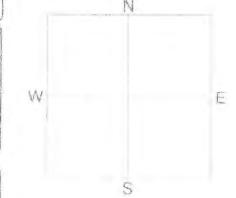
FIELD ID #11&12

SAMPLE ID FIELD NAME COUNTY

TWP 6-4E SECTION 18

QTRSE/SW ACRES 375

PREV. CROP Wheat-Spring



SUBMITTED FOR:

MARTIN REUTTER

BOX 156

GRUNTHAL, MB

ROA ORO

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

REF # 12481316 BOX #

LAB # NW47143

Date Sampled 08/29/2013

Date Received 09/03/2013

Date Reported 3/14/2014

V 11	The self			FCY	116.2.4.1		100	D CO	e Shakir	The state of the s	10	co tim	
				Ca	nola-bu			Corr	n-Grain	1	Whe	at-Spring	
0-6" 6-24"	10 lb/ac 18 lb/ac			YIE	LD GOAL		Jan	YIELI	GOAL		YIE	D GOAL	Managama (Managama) (M
	•	*****		60	BU	17000000		150	BU	1	70	BU	
0-24"	28 lb/ac	the second secon	SUG	GEST	D GUIDELII	VES	SUG	GESTER	GUIDELINES	SU	GGESTE	D GUIDE	LINES
Nitrate					Band			В	and	V Colores		Band	yee(100)
			LB//	ACRE	APPLICA	TION	LB/A	ACRE	APPLICATIO	V LB	ACRE	APPLI	CATION
Olsen Phosphorus	10 ppm	*****	N	182			N	152		N	161		
Patassium	301 ppm	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>	45	Band *	P <sub>2</sub> O <sub>5</sub>	36	Bar	nd *
Chloride			K <sub>2</sub> O	0		The second second second	K <sub>2</sub> O	10	Band (2x2)	* K <sub>2</sub> O	10	1	and rter)*
0-6" 6-24"		*****	CI		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		CI		194 (a. i.e.	Ci		***************************************	
Sulfur			S	17	Band		5	0		S	0		
Zinc.	1.6 ppm	*****	В	0			В	0		В	0		
Iron	4 - January - Surfamon	*****	Zn	3	Band (Tr	ial)	Zn	2	Band	Zn	3	Band	(Trial)
Manganese	1.5 ppm	******	Fe	0	*		Fe	0	A COLUMN TO SERVICE SE	Fe	0		THE PARTY NAMED OF THE PARTY NAMED IN
Copper	1.47 ppm	******	Mn	0	Action 1		Mn	0	* * * * * * * * * * * * * * * * * * *	Mn	0		
Magnesium	1601 ppm		Cu	0			Cu	0		Cu	0		
Calcium	6785 ppm		Mg	0			Mg	0		Mg	0		
Sodium	57 ppm	*****	Lime		- special		Lime			Lime	-		***
Org.Matter	1=+	******	3440 - 4444 - 44			Catio	on Excl	nange	% Base s	Saturati	on (Ty	pical Rai	nge)
Carbonate(CCE)			Soil	He	Buffer pH		Capacit		1	% Mg	% K	% Na	% H
0-6" 6-24"	0.49 mmho/cm 0.64 mmho/cm	*****	0-6" <b>8</b>			4	18.3 me	eq	(65-75) ( <b>70.3</b>	(5-20) <b>27.6</b>	(1-7) <b>1.6</b>	(0-5) <b>0.5</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Pertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

### SOIL TEST REPORT

FIELD ID 13 SAMPLE ID 14041306

FIELD NAME

COUNTY TWP

6-4E

RANGE

SECTION 7 QTRNW

ACRES 95

PREV. CROP Canola-bu

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

**BOX 309** 

NIVERVILLE, MB

ROA 1EO

REF # 14041306 BOX # LAB #

W

NW63794

GRUNTHAL, MB

REUTTER FARMS

PO BOX 156

ROAORO

Date Sampled 09/18/2013

Date Received 09/19/2013

Date Reported 3/14/2014

\_

///////	Yne and	2/7/1	rimathr)	L		== E/1000	-		- C	6 , ft	deve fuebrica deserva	1/4	- Die	
· · · · · · · · · · · · · · · · · · ·					Co	rn-Grain			Can	ola-bu		Whe	at-Spring	I
0-6" 6-24"	21 lb/ac 9 lb/ac			, .	YIE	LD GOAL			YIELD	GOAL	****	YIE	LD GOAL	No. of the Commission Section
		*****		-	15	0 BU			70	BU		70	BU	
0-24"	30 lb/ac	The state of the s	000	SUG	GESTE	D GUIDELI	NES	SUG	GESTED	GUIDELINES	SU	GGESTE	D GUIDE	LINES
Nitrate		Annual Control of the	Annual Control of the	***************************************		Band			В	and		**************************************	Band	-
į				LB//	ACRE	APPLICA	TION	LB/A	ACRE	APPLICATION	LB,	ACRE	APPLI	CATION
Olsen Phosphorus	15 ppm	*****	*********	N	150			N	215	100000000000000000000000000000000000000	N	159	-	
Potassium	459 ppm	*****	*******	P <sub>2</sub> O <sub>5</sub>	26	Band	*	P <sub>2</sub> O <sub>5</sub>	35	Band *	P <sub>2</sub> O <sub>5</sub>	25	Bai	nd *
Chloride	and the second s			K <sub>2</sub> O	10	Band (2	x2) *	K <sub>2</sub> O	0		K <sub>2</sub> O	10		and rter)*
0-6" 6-24"			*******	CI				CI			CI	-	*	Address out State Con-
Sulfur Beron				5	0			S	10	Band	s	0		
Zinc		****		В	0	-		В	0	I man	В	0		
Iron	1.06 ppm	******		Zn	0			Zn	0		Zn	0		distribution of the con-
Manganese	1.6 ppm	*****		Fe	0			Fe	0		Fe	0	-	**************************************
Copper		*****	*****	Mn	0			Mn	0	W months and a second a second and a second	Mn	0		
Magnesium	1945 ppm	******	******	Cu	0			Cu	0	The state of the s	Cu	0		
Calcium	to the control till to be a second till to be			Mg	0		***	Mg	0		Mg	0		
Sedium	6822 ppm	******	1	Lime		200 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	The state of the s	Lime			Lime			
Org.Matter	and the second of the second	*****		**********			Cati	on Excl	ange.	% Base S	aturatio	on (Tvi	nical Par	naol
Carbonale(CCE)				Soil	H I	Buffer pH		Capacit	-	THE COMMISSION OF PROPERTY OF THE PARTY OF T	6 Mg	% K	% Na	% H
0-6" 6-24"	0.59 mmho/cm 0.6 mmho/cm	1		0-6" <b>7</b> 6-24" <b>8</b>		* 100 / 1 / 100 mm	5	52.0 me	q	1	5-20) <b>31.2</b>	(1-/) <b>2.3</b>	(0-5) <b>0.9</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 60 K2O = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 63 K2O = 32 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

ROA ORO

### SOIL TEST REPORT

FIELD ID 14 SAMPLE ID 14041362

FIELD NAME

COUNTY

TWP 6

RANGE

SECTION 7 QTR NE

PREV. CROP Corn-Grain

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

ACRES 115

W E

REF # 14041362 BOX # LAB # NW131440

Date Sampled 10/24/2013

REUTTER FARMS

GRUNTHAL, MB

**BOX 156** 

Date Received 10/28/2013

Date Reported 3/14/2014

finite-nl :	The does	Tol	eros etado	* p	10	(t. Cr		and the second		0.51	ni Creatie			- ~ .	
						Cor	n-Grain			Can	ola-bu		Whe	at-Spring	mercuratum 61-6
0-6" 6-24"	13 lb/ac 39 lb/ac		and the second s			YIE	D GOAL		ad Hamman	Alere	GOAL	James - Company	YIE	LD GOAL	***************************************
- Land		******	***			15	0 ви			60	BU	- I Switcher virtue	70	BU	actual de l'Addresse de l'
0-24"	52 lb/ac				SUG	GESTE	D GUIDELII	NES	SUG	GESTEC	GUIDELINES	su	GGESTE	D GUIDE	LINES
Nitrate			Triff (Trimman)	1			Band			В	and	man and a second		Band	
men na analas and analas	AND THE RESERVE TO SERVE THE SERVE T				LB/A	ACRE	APPLICA	TION	LB/A	CRE	APPLICATIO	LB	/ACRE	APPLI	CATION
Olsen Phosphorus	12 ppm	*****	*********	Toronto P. Contract	N	128			N	158		N	137	-	
Potassium	406 ppm	******		*****	P <sub>2</sub> O <sub>5</sub>	37	Band	*	P <sub>2</sub> O <sub>5</sub>	39	Band *	P <sub>2</sub> O <sub>5</sub>	32	Bar	1d *
Chloride				1	K <sub>2</sub> O	10	Band (2:	x2) *	K <sub>2</sub> O	O		K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	24 lb/ac 72 lb/ac	1	****	*****	CI				CI			CI			Address Commission of the Comm
Sulfur Boron	* 4				S	0		To comment of the same	S	15	Band	s	0		
Zinc			****		В	0		and the same of th	В	0		В	0		
Iron			*********		Zn	0	-0.00		Zn	0		Zn	0	3	A SAME
Manganese	1.9 ppm				Fe	0			Fe	0		Fe	0		
Copper	1.88 ppm	******	********	*	Mn	0			Mn	0		Mn	0		Carrae de servicio e e e
Magnesium	1666 ppm	******	*********		Сп	0			Cu	0		Cu	0	*	- Address (B. Esta State St. Astronomic St. Astrono
Calcium	-			111	Mg	0			Mg	0		Mg	0		
Sodium	6197 ppm		*********	Decree Charleson V	ime				Lime	1000 400		Lime	-		
Crg.Matter			t ** * ** * * * * * * * * * * * * * * *			Cati	on Exch	2000	% Base s	Saturati	on (Tve	nical Par	ngal		
Carbonate(CCE)	3.6 76		Soil p	H	Buffer pH		Capacit			% Mg	% K	% Na	% H		
0-6" 6-24"	0.57 mmho/cm 0.61 mmho/cm	1		11	-6" <b>7</b>			4	16.3 me	q		5-20) <b>30.0</b>	(1-7) 2.3	(0-5) <b>0.7</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K20 = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

ROA ORO

# SOIL TEST REPORT

FIELD ID 15
SAMPLE ID
FIELD NAME
COUNTY

6-4E RANGE

SECTION 7 QTRSW ACRES 135

PREV. CROP Corn-Grain

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

TWP

NIVERVILLE, MB

ROA 1EO

N E

REF # 14041354 BOX # 0 LAB # NW122927

Date Sampled 10/21/2013

REUTTER FARMS

PO BOX 156

GRUNTHAL, MB

Date Received 10/23/2013

Date Reported 3/14/2014

102 10 Tr	Yar out	111111111111111111111111111111111111111		951	(i) C		-	al Xy	ia Churry	A CAL COLORS	111.25		
	ST CONTROL OF THE STATE OF THE			Co	rn-Grain	7	1	Can	ola-bu		Whe	at-Spring	]
0-6" 6-24"	23 lb/ac 12 lb/ac	11 1 1		YIE	LD GOAL			YIELU	O GOAL		YIE	LD GOAL	
Treatment and a		*****		15	0 BU			60	BU		70	) BU	- Contraction and Contraction (Contraction (
0-24"	35 lb/ac		SUG	GESTE	D GUIDELINE	s	SUG	GESTEL	GUIDELINES	SU	GESTI	D GUIDE	LINES
Nitrate				- party	Band			В	and		N. Law Commission of Street	Band	
Topo Mariana de Caración de Ca	III.		LB/	ACRE	APPLICATI	ON	LB/A	CRE	APPLICATION	LB,	ACRE	APPLI	CATION
Olsen Phosphorus	13 ppm	***********	N	145			N	175	A THE STREET THE STREET AND ADDRESS OF THE STREET	N	154		
Potassium	491 ppm	******	P <sub>2</sub> O <sub>5</sub>	33	Band *		P <sub>2</sub> O <sub>5</sub>	36	Band *	P <sub>2</sub> O <sub>5</sub>	29	Bai	nd *
Chloride			K <sub>2</sub> O	10	Band (2×2	) *	K <sub>2</sub> O	0		K <sub>2</sub> O	10	1	and rter)*
0-6" 6-24"	12 lb/ac 18 lb/ac		CI				CI			СІ			Eres A. Son and Andreas
Sulfur	more distance and account to the same		S	7	Band (Tria	1)	S	17	Band	5	7	Band	(Trial)
Zinc.	- Average - American -	******	В	0		100	В	0		В	0		
Iron	61.5 ppm	*****	Zn	0	a police to service vide		Zn	0	The state of the s	Zn	0	- december duminos	Automotive designation
Manganese	- Contract - Section Contract	******	Fe	0	ANNA ANNA ANNA ANNA ANNA ANNA ANNA ANN		Fe	0		Fe	0	Trouble as belower	
Copper	2.52 ppm	******	Mn	0			Mn	0	Fact of a second control base (consecutive)	Mn	0		
Magnes um	1952 ppm	****** *******************************	Cu	0			Cu	0	AND THE PROPERTY OF THE PROPER	Cu	0		
Calcium	FOCA		Mg	0			Mg	0	i i	Mg	0	- 100000000000	CONTRACTOR CONTRACTOR OF C
Sodium		********	Lime				Lime		1	Lime	I	CORES AND AND ASSESSMENT OF THE PARTY OF THE	HINE HIMPE
Org.Malter	6.2 % ***********************************	- Marine In a			atio	ın Exch	2000	% Base S	aturatio	n (Tv	nical Rai	nea)	
Carbonate(CCE)			Soil	H	Buffer pH		apacit			ь Ма	% K	% Na	% H
0-6" 6-24"	0-6" 0.6 mmho/cm ************************************	0-6" <b>7</b>			4	3.2 me	q	(65-75) (1	5-20) 1 <b>7.7</b>	(1-7) <b>2.9</b>	(0-5) <b>0.8</b>	(0-5)	

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

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: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K20 = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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

Benson: (320) 843-4109

# SOIL TEST REPORT

FIELD 1D #16 SAMPLE ID FIELD NAME COUNTY

TWP 6-4E SECTION

7 QTR SE

PREV. CROP Wheat-Winter

SUBMITTED BY: PR2421

RANGE

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

**BOX 309** 

NIVERVILLE, MB

ROA 1EO

ACRES 195

N W

REF # 12481314 BOX #

LAB # NW47141

SUBMITTED FOR:

MARTIN REUTTER

**BOX 156** 

GRUNTHAL, MB

ROA ORO

Date Sampled 08/29/2013

Date Received 09/03/2013

Date Reported 3/14/2014

8001-011-0	The Son	i i i i i i i i i i i i i i i i i i i	- Landard American		niji Chanc	2		^	a Chuips				
interest in the control of the contr				Ca	nola-bu	7	A CONTRACTOR OF THE CONTRACTOR	Corr	ı-Grain		Whe	at-Spring	1
0-6" 6-24"	18 lb/ac 33 lb/ac			YIE	LD GOAL			YIELU	GOAL	te management	YIE	LD GOAL	**************************************
e eril i i jaarna jaarna ja		*****		60	) BU			150	BU		76	BU	
0-24"	51 lb/ac	demanda y s	sug	GESTE	ED GUIDELIN	VES	SUG	GESTEC	GUIDELINES	su	GGESTE	D GUIDE	LINES
Nitrate					Band			В	and	ÇAMONON MARIANIA		Band	
			LB/A	ACRE	APPLICA	TION	LB/A	ACRE	APPLICATION	V LB	/ACRE	APPLI	CATION
Olsen Phosphorus	14 ppm	******	N	159			N	129	1	N	138		
Potassium	482 ppm	*****	P <sub>2</sub> O <sub>5</sub>	33	Band	*	P <sub>2</sub> O <sub>5</sub>	29	Band *	P <sub>2</sub> O <sub>5</sub>	27	Bai	nd *
C hloride			K <sub>2</sub> 0	0		THE PERSON NAMED IN COLUMN TWO PERSONS IN CO	K <sub>2</sub> O	10	Band (2x2)	* K <sub>2</sub> O	10		and rter)*
0-6" 6-24"		*********	CI	Marco (4.00), 1			CI			CI			Orașie spire
Sulfur [			S	15	Band		S	0	Sales and the sa	S	0	1	
Zinc	The Control of the Co	*****	В	0	and this comme		В	0		В	0		THE RESIDENCE AND DESIGNATION
Iron		*****	Zn	0	1		Zn	0		Zn	0	*	
Manganese	1.6 ppm		Fe	0			Fe	0	**************************************	Fe	0		Transless of Strongs
Copper	1.9 ppm	*********	Mn	0	***************************************		Mn	0		Mn	0	1	1-11-04
Magnesium	1740 ppm	***********	Cu	0		Name and	Cu	0		Cu	0		The property of the second
C alc:um			Mg	0			Mg	0		Mg	0		Maria Maria and Carlos and Carlos
Sodium	6654 ppm 77 ppm	***************	Lime	THE THE YEAR PROPERTY.	1		Lime		1	Lime		1444	-American man and
Org.Matter	Million of the Committee of the Committe	******			1				% Base S			1	
Carbonate(CCE)	w.0 70		Soll p		Buffer pH		on Excl Capacit	-		% Mg	% K	% Na	nge) % H
0-6" 6-24"	0.48 mmho/cm 0.81 mmho/cm	*****	0-6" <b>8</b> 6-24" <b>8</b>	100	errolland on the persons and		19.3 me	q		5-20) <b>29.4</b>	(1-7) <b>2.5</b>	(0-5) <b>0.7</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K20 = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



# SOIL TEST REPORT

FIELD ID 17 SAMPLE ID 14041305

FIELD NAME

COUNTY

TWP 6-4E SECTION 8

OTRRL ACRES 40

PREV. CROP Canola-bu

SUBMITTED FOR:

REUTTER FARMS PO BOX 156

GRUNTHAL, MB

ROAORO

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

**BOX 309** 

NIVERVILLE, MB

ROA 1EO

REF #

14041305 BOX #

LAB # NW63800

Date Sampled 09/18/2013

Date Received 09/19/2013

Date Reported 3/14/2014

3833331		) = /mis=t/m			te Cholo	8	(2)	ri, gre	p 1/11=	manufacture of the state of the		un One	UCF.
11	a jung mang-lang ang mangkapang mangkapang mangkapang ang mangkapang mangkapang mangkapang mangkapang mangkapan			Cor	n-Grain		1)71	Can	ola-bu	-	Whe	at-Spring	Mrskyt)):Brokenous
0-6" 6-24"	20 lb/ac 15 lb/ac	and the second s		YIEL	D GOAL			YIELD	GOAL		YIE	D GOAL	
		******		150	) BU			70	BU		70	BU	THE CONTRACTOR CONTRACTOR
0-24"	35 lb/ac		SUG	GESTE	D GUIDELIN	NES	SUG	GESTED	GUIDELINES	SU	GGESTE	D GUIDE	LINES
Nitrate		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	3and	137600		В	and			Band	
			LB//	ACRE	APPLICA	TION	LB/A	ACRE	APPLICATION	LB,	ACRE	APPLI	CATION
Olsen Phosphorus	21 ppm	***********	N	145		***************************************	N	210		N	154		South Security Section (Section Section Sectio
Potassium	285 ppm	******	P <sub>2</sub> O <sub>5</sub>	15	Band (2)	×2) *	P <sub>2</sub> O <sub>5</sub>	14	Band *	P <sub>2</sub> O <sub>5</sub>	15		and ter)*
Chloride		*********	K <sub>2</sub> O	10	Band (2)	(2) *	K <sub>2</sub> O	0	***************************************	K <sub>2</sub> O	10		and ter)*
0-6" 6-24" Sulfur		***********				-	CI		1	CI		(Sta.	
Boron	1.0 ppm	*****	S	0			S	10	Band	S	0		
Zinc		*****	В	0		100	В	0		В	0		the of Attacking on the control
Iron	53.3 ppm	*******	Zn	0			Zn	0	1	Zn	0	A 241.00 \$41.00	-
Manganese	1.4 ppm	******	Fe	0			Fe	0	1	Fe	0		
Copper	1.73 ppm	******	Mn	0			Mn	0		Mn	0	1	
Magnesium	1411 ppm	******	Cu	0			Cu	0		Cu	0		~
Ealcium			Mg	0		-	Mg	0		Mg	0		
Sodium	4999 ppm 46 ppm	*****	Lime		:		Lime	and the second second second		Lime		1	THE PARTY OF THE P
Org.Matter	5.5 %	*********				Cati	on Excl	nange	% Base S	aturati	on (Ty	pical Rai	nge)
Carbonate(CCE)	and the second s		Soil	oH E	Buffer pH		Capacit			/o Mg	% K	% Na	% H
0-6" 6-24"	0.55 mmho/cm 0.5 mmho/cm		0-6" 7		***********		37.7 me	q		5-20) <b>31.2</b>	(1-7)	(0-5) <b>0.5</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 63 K2O = 32 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K2O = 26 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

APPENDIX 9.7

		LIVEST	OCK MANUR	E SPREADING AG	REEMENT	
Between	Prairie Organic Laye (Please Prin		1 Signa	ature)	ereafter referred to as "Liv	estock Operator"
And:	Rene Peloquin		Mone		ereafter referred to as: "Landowner" or	"Land Dontor"
Date:	Aug 13/14	nt)	(Signa	0	-Landowner of Li	Land Remer
The dura	ation of this agreemen	nt is of	years, beginnin	g at the above date.		
			the Land Renter			
and F	Parcels selected	as potenti	al fields to receive			
Field	Legal Location	(Check On		Area available for spreading	Cropping Intentions	Preferred Application Time
		Owned Re	ented (acres)	(acres, exclusive of setbacks)		711110
1	SE 15-5-4E (E 1/2)	<b>V</b>	80	66	Grain Corn	Fall
2	SW 14-5-4E (N portion)	1	100	73	Grain Corn	Fall
3	NW/NE 15-5-4E (S 1/2)	1	160	160	Grain Corn	Fall
4	NE 15-5-4E (N 1/2)	1	80	80	Grain Corn	Fall
	nsibilities of the L Application Deta	nils		15-11		
	Time of Application Application Method		Broadcast 🔻	Summer Fall Broadcast and incorporate with Irrigation/Sprinkler	nin 48 hours	
Custom	ator k Operator Applicator ted Manure Application		me of applicator:			
will will	keep track of these rec pay all costs for soil tes carry out a manure ana calculate the manure a  the soil test rece the soil test rece	ords, but will no iting and these it lysis test and the pplication rate from it is a summendations from it is an and the summendations from ility recommend	results will be made ava- the results will be made a for each field on the bas for plant nitrogen require for plant phosphorus rec- ations as per the Soil F	the consent of the Landowner allable to both the Landowner a available to both the Landowner is of (check only one): ements, or	ind the Land Renter; or and the Land Renter;	Practices Guidelines for
□ will	provide a proof of calib	ration for the mand the Land Re	anure spreading equipn nter of changes in antic	nent; ipated dates and rates of appli agrologist, along with field ma	cation in volume and crop no	utrient (N, P, K); observe;
will	nave a manure manag	ellient pian prep	pared by a professional	ndowner and the Land Renter,	if applicable.	

.nd:	(Please Prin	er Farms L	td.	1 cm (5)1998		reafter referred to as "Li	vestock Operator
nu.	Rene Peloquin	n.y		60	- 1/1	ceafter referred to as:	
	(Please Prin			(Signa	ture) (	"Landowner" or $\square$	l "Land Renter"
ate:	Aug 13/14		5	years heginning	g at the above date.		
	tion of this agreeme				g at the above date.		
	sibilities of the L arcels selected				ve manure		
Field	Legal Location		k One)	Nominal Size	Area available for	Cropping Intentions	Preferred Application
i ibiu	Logui Locuies	Owned	Rented	(acres)	spreading (acres, exclusive of setbacks)		Time
5	SW 22-5-4E	1	333333	80	80	Grain Corn	Fall
6	(N 1/2) SE 22-5-4E	1		80	80	Spring Wheat	Fall
7	(N 1/2) SW 23-5-4E (N 1/2)	<b>V</b>		80	80	Canola	Fall
8	NW 27-5-4E (& N portion SW)	V		100	92	Spring Wheat	Fall
1	nsibilities of the l		Operato	<u>n</u>			
Field A	Application Deta Time of Applicat		☐ Sprin	9	Summer Fall Broadcast and incorporate with	in 48 hours	
	Application Method		T Interes			III 40 NOUIS	
Custom A Anticipate			ate:	applicator:	Irrigation/Sprinkler		

estock Operator"  "Land Renter"  Preferred Application Time
Preferred Application Time
Preferred Application Time
Time
Fall
, a
Fall
n Practices Guidelines 1
m Practices Guidelines I
nutrient (N, P, K); to observe;



Soil Analysis by Aqvise Laboratories (http://www.agvise.com)

> Northwood: (701) 587-6010 Benson: (320) 843-4109

> > SUBMITTED FOR:

ROA 1VO

## SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 5-4E SECTION 15

RANGE OTRSE

ACRES 73

PREV. CROP Soybeans

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION

2 MI SOUTH ON 59

**BOX 309** 

NIVERVILLE, MB

ROA 1EO

N W

REF # 14041318 BOX #

LAB # NW84977

Date Sampled 09/30/2013

RENE PELOQUIN

ST. PIERRE, MB

**BOX 396** 

Date Received 10/02/2013

Date Reported 3/14/2014

0

Nutries In	The less	111/4/10011755			(E)		My E			re,on	m = c	ir-
	ENGLISHED WITH THE ALLESS PROPERTY OF SPACE OF MARKET PROPERTY.		-	Corr	n-Grain		С	anola-bu	A AMERICAN	Whea	it-Spring	
0-6" 6-24"	13 lb/ac 21 lb/ac	The state of the s	and the same of th	YIEL	D GOAL		YI	ELD GOAL		YIEL	D GOAL	
0-24	15/15/	*****	4	130	BU			0 BU		70	BU	
0-24"	34 lb/ac		SUG	GESTE	GUIDELINES	SU	GGEST	ED GUIDELINES	SUG	GESTE	D GUIDEL	INES
Nitrate	The state of the s			8	and			Band		8	Band	
			LB/A	ACRE	APPLICATION	ON LI	/ACRE	APPLICATION	LB/	ACRE	APPLIC	CATION
Olsen Phosphorus	12 ppm	*****	N	92	And Antonion and A	N	91		N	140		noncompanient de l'entere de
Potassium	316 ppm	******	P <sub>2</sub> O <sub>5</sub>	32	Band *	P <sub>2</sub> C	5 26	Band *	P <sub>2</sub> O <sub>5</sub>	32	Ban	d *
Chloride			K <sub>2</sub> O	10	Band (2x2	) * K <sub>2</sub> (	0		K <sub>2</sub> O	10	8a (Star	nd ter)*
0-6" 6-24"	120 +lb/ac 360 +lb/ac	**************	CI	0		CI	10	) Band	CI S	0		
Boron	1.9 ppm	*****				В	0		В	0		marie parinde
Zinc	0.69 ppm	*****	В	0	-		_			+		organica di gara (i con
Iron	24.4 ppm	*****	Zn	0		Zr	-		Zn	2	Band (	Trial)
Manganese	1.6 ppm	*****	Fe	0		Fe	0		Fe	0		
Соррег	1.5 ppm	**********	Mn	0	A CONTRACTOR OF THE CONTRACTOR	Mr	0	a year	Mn	0		
Magnesium	2049 ppm	*****	Cu	0		C	0		Cu	0		
<u> </u>			Mg	0	Winds and the second se	Mç	0		Mg	0		
Calcium	6294 ppm 316 ppm	******	Lime			Lim	e		Lime			
Org.Matter		******				Cation E	cchan	ge % Base S	aturati	on (Ty	pical Rai	nge)
Carbonate(CCE)	THE THE PARTY OF		Soil pH	pH !	Buffer pH	Capa			% Mg	% K	% Na	% H
0-6" 6-24"		******	0-6"			50.7	meq	2.50	(5-20) <b>33.7</b>	(1-7) <b>1.6</b>	(0-5) <b>2.7</b>	(0-5)

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

Sol. Salts

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 52 K20 = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 36 K20 = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K20 = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



### SOIL TEST REPORT

FIELD ID 2 SAMPLE ID FIELD NAME COUNTY

TWP **5-4E** SECTION **14** 

RANGE

QTRSW ACRES 73

PREV. CROP Sovbeans

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

W E

REF # 14041319 BOX #

LAB # NW84979

SUBMITTED FOR:

RENE PELOQUIN

BOX 396

ST. PIERRE, MB

ROA 1VO

Date Sampled 09/30/2013

Date Received 10/02/2013

Date Reported 3/14/2014

Pp. (1000001.37)	⊤ - ≥	1	0.4,000	-	Cr.	an Chob		139	0.00	o Elman		ril tis	all Cho	iac
111111111111111111111111111111111111111	***************************************				Co	rn-Grain			Can	ola-bu		Whea	at-Spring	
0-6" 6-24"	14 lb/ac 15 lb/ac				YIE	LD GOAL			YIELD	GOAL		YIEL	D GOAL	
i nepramina		*****			13	0 BU			40	BU		70	BU	*** ***
0-24"	29 lb/ac		A T T T T T T T T T T T T T T T T T T T	SUG	GESTE	ED GUIDELIN	NES	SUGO	GESTED	GUIDELINES	suc	GESTE	D GUIDE	LINES
Nitrate		And many services		AND CONTRACTOR OF THE PARTY OF	-	Band			В	and		E	Band	an tománosca
CONTRACTOR OF THE PROPERTY OF				LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATION	LB/	ACRE	APPLI	CATION
Phosphorus	5 ppm	******	A final constant of the final constant of th	N	97	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		N	96		N	145		
Potassium	282 ppm	*****	******	P <sub>2</sub> O <sub>5</sub>	56	Band	*	P <sub>2</sub> O <sub>5</sub>	40	Band *	P <sub>2</sub> O <sub>5</sub>	48	Bar	ıd *
Chloride				K₂0	10	Band (2:	x2)*	K <sub>2</sub> O	0		K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	70 lb/ac 360 +lb/ac	1	******	CI		All and a second		CI			CI			
Sulfur	360 FID/ac	**********	**********	S	0		-	5	10	Band	s	0	1	
Baron	2.3 ppm	*****	*********	В	0			В	0		В	0	1	- WANT THE WANTED STATES OF
Zinc	0.62 ppm	******		Zn	2	Band		Zn	3	Band (Trial)	Zn	3	Oand i	(Trial)
Iron	21.3 ppm	*****	******	-		Danu				Danu (Iriai)		-	canu	(Iriai)
Manganese	1.5 ppm	******	***	Fe	0			Fe	0	* * * * * * * * * * * * * * * * * * *	Fe	0		
Copper	1.18 ppm	*****	to the contract of the	Mn	0	4		Mn	0	Philipping and the state of the	Mn	0		
Magnesium	2334 ppm	******	*****	Cu	0	A Committee of the Comm		Cu	0	AND	Cu	0		THE PARTY OF
			<u> </u>	Mg	0		***************************************	Mg	0		Mg	0	i i	
Calcium	6457 ppm	*****	******	Lime				Lime		3	Lime			
Sodium	167 ppm	*****	******		L	1						1		~~~~
Org.Matter	5.9 %	*****	*****	Soil pH		Buffer pH		on Excl		% Base S	Saturati	on (Ty	pical Rai	nge)
Carbonate(CCE)				Sui ph				Capacii	y	% Ca	% Mg	% K	% Na	% H
0-6" 6-24" Sol. Salts	0.66 mmho/cm 1.57 mmho/cm			0-6" \$ 6-24" \$	3 4 5			53.2 me	q	(65-75) ( <b>60.7</b>	35.6	(1-7) <b>1.4</b>	(0-5) 1.4	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 52 K2O = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 36 K20 = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



## SOIL TEST REPORT

FIELD ID
SAMPLE ID
FIELD NAME
COUNTY

TWP 5-4E RANGE

SECTION 15 QTRN ACRES 160

PREV. CROP Canola-bu

SUBMITTED FOR:

RENE PELOQUIN

BOX 396

ST. PIERRE, MB

ROA 1WO

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

N W

REF # 12481262 BOX #

LAB # NW52229

Date Sampled 09/06/2013

Date Received 09/09/2013

Date Reported 3/14/2014

0

78/ESSIII.ST	174.34	2ntaran	antant.		0.50	10  -	-	3	(I 5.0)	ng Cholen		PI 0	no Cla	( to
200					Cor	n-Grain	and the same of th		Whea	t-Spring		Ca	nola-bu	
0-5" 6-24"	19 lb/ac 12 lb/ac				YIEL	D GOAL			YIELD	GOAL		YIE	LD GOAL	· · · · · · · · · · · · · · · · · · ·
		*****	e de la companya de l		130	) BU			70	BU		40	) BU	The second second
0-24"	31 lb/ac	A martin	The second secon	SUG	GESTE	D GUIDELI	VES	SUG	GESTEC	GUIDELINES	SU	GGESTE	D GUIDE	LINES
Nitrate	Margine a constant	Total Company (Assessed )			E	3and			В	and		1000	Band	1
				LB/A	ACRE	APPLICA	TION	LB/A	ACRE	APPLICATIO	N LB	/ACRE	APPLI	CATION
Olsen Phosphorus	5 ppm	*****		N	125		***************************************	N	158		N	109		***************************************
Potassium	296 ppm	******	*****	P <sub>2</sub> O <sub>5</sub>	56	Band	*	P <sub>2</sub> O <sub>5</sub>	48	Band *	P <sub>2</sub> O <sub>5</sub>	40	Bar	nd *
Chloride	and the above to t		en de la constante de la const	K <sub>2</sub> O	10	Band (2:	(2) *	K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	0	20/00/00/00/00/00	••••
0-6" 6-24"		*****	1 D	CI				CI		William L. D. K.	СІ			1(400-144) taxaa (446-1460-446)
Sulfur		ļ		S	0			5	0		S	10	Ba	nd
Boron	1.4 ppm	*********	****	В	0			В	0		В	0		
Zinc	0.67 ppm	******		-7-		-							-	
Iron	28.1 ppm	*****	****	Zn	0	_		Zn	2	Band (Trial	) Zn	2	Band	(Trial)
Manganese	1.5 ppm	****	**	Fe	0			Fe	0		Fe	0	Annual Marian	
Copper	1.62 ppm	*********	****	Mn	0			Mn	0		Mn	0	1	
Magnesium	2003 ppm	*****	****	Cu	0	The second second		Cu	0		Cu	٥	Special Control of the Control of th	
				Mg	0	1		Mq	0	***************************************	Mg	0		Mark Hilliam I I I I I I MARK SHA WAS
Calcium	6329 ppm	******	****		Turbun we kepter	-		1	(m)mm: 1.0	1				···
Sodium	195 ppm	*****	*****	Lime	L			Lime		<u> </u>	Lime	<u> </u>		- Park Strategy
Org.Matter	6.9 %	******	********				Catio	on Excl	nange	% Base	Saturati	on (Ty	pical Rai	nge)
Carbonate(CCE)		August 1	-	Soil pH   B	Buffer pH		Capacil	y	% Ca	% Mg	% K	% Na	% H	
0-6" 6-24"		**********	4	0-6" <b>7</b> 5-24" <b>8</b>		de gand a respondence de de accompany a ma	2	19.9 me	q	(65-75) <b>63.4</b>	15-20) <b>33.4</b>	(1-7) <b>1.5</b>	(0-5) <b>1.7</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 52 K20 = 35 AGVISE 8 and guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K20 = 26 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 36 K20 = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

**ROA 1WO** 

#### SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP **5-4E** SECTION **15** 

RANGE

QTR NE ACRES 80

PREV. CROP Canola-bu

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

W

REF # 12481253 BOX # LAB # NW52231

Date Sampled 09/04/2013

RENE PELOQUIN

ST. PIERRE, MB

**BOX 396** 

Date Received 09/09/2013

Date Reported 3/14/2014

No.	and the second s		ne i ni	0.000		d G	ALC SAMP	and the state of t	-		p. Chante			up 🗀	
				N	hamman kawan	Co	rn-Grain			Wheat	-Spring		Ca	nola-bu	***************************************
0-6" 6-24"	32 lb/ac 18 lb/ac				Manufally committee that there	YIE	LD GOAL	and the second leaves to	-	YIELD	GOAL		YIEL	D GOAL	
		*****	****	The same and the s		13	o BU		1	70	BU		40	BU	NAC - AL -
0-24"	50 lb/ac		W. C. Williams	Ange and A to the country	SUG	GESTI	ED GUIDELIN	ves	SUGO	GESTED	GUIDELINES	SU	GGESTE	D GUIDE	LINES
Nitrate				A STATE OF THE STATE OF T		***************************************	Band			Ва	and		Table of Calenda Santon	Band	THE PERSON NAMED OF
	Court Manager, Colonia, William Colonia, Colonia				LB/	ACRE	APPLICA	TION	LB/A	CRE	APPLICATIO	N LB	/ACRE	APPLI	CATION
Olsen Phosphorus	3 ppm	*****			N	106		in the same	N	139		N	90		300
Potassium	266 ppm	****	*****	******	P <sub>2</sub> O <sub>5</sub>	63	Band	*	P2O5	53	Band *	P20:	44	Ban	ıd *
Chloride		age (separate and separate and separate	- salaha		K <sub>2</sub> O	10	Band (2)	×2) *	K <sub>2</sub> O	10	Band (Starter)*	K₂O	0	The same of the sa	
0-6" 5-24"	120 +lb/ac 360 +lb/ac	2	4	I I	CI				CI			CI			A
Sulfur					S	0			S	0		s	10	Ва	nd
Boron	2.4 ppm	*****		******	В	0			В	0		В	0	-	CONTRACTOR (1875)
Zinc	0.54 ppm	*****	*****	ļ	Zn	2	Band		Zn	2	Band (Tria	) Zn	2	Band	(Trial)
Iron	16.9 ppm	*****	*****	*********		-			<u></u>						
Manganese	0.9 ppm	*****	*****	<u> </u>	Fe	0			Fe	0		Fe	0		
Copper	1.44 ppm		American - Print	*****	Mn	2	Band		Mn	2	Band	Mn	2	Ba	nd
Magnesium	2032 ppm	*****	******		Cu	0	1		Cu	0		Cu	0		
				<u> </u>	Mg	0			Mg	0	-	Mg	0		
Calcium	13612 ppm	****	*****	*******	Lime				Lime			Lime		1	west (western - Year
Sodium	645 ppm	*****	*****	******					1						-
Org,Matter	6.7 %	*****	*****	******	Soil	nН	Buffer pH	Cati	on Excl	hange	% Base	Saturat	on (Ty	pical Ra	nge)
Carbonate(CCE)	and the second s				5011	Soil pH	- with bit		Capaci	ty	% Ca	% Mg	% K	% Na	% H
0-6" 6-24" Sol. Saits	3.15 mmho/cm 4.27 mmho/cm	1	1	· · · · · · · · · · · · · · · · · · ·	0-6" 6-24"				88.5 m	eq	(65-75) <b>76.9</b>	(15-20) <b>19.1</b>	(1-7) <b>0.8</b>	(0-5) <b>3.2</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 52 K2O = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P205 = 44 K20 = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



**SOIL TEST REPORT** 

FIELD ID 5
SAMPLE ID
FIELD NAME
COUNTY

TWP 5-4E SECTION 22

RANGE

QTRSW ACRES 80

PREV. CROP Canola-bu

SUBMITTED FOR:

RENE PELOQUIN

BOX 396 ST PIERRE, MB

Date Sampled 09/04/2013

ROA 1VO

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

**BOX 309** 

NIVERVILLE, MB ROA 1EO

REF #

W

12481252 BOX #

LAB # NW50890

Date Received 09/08/2013

Date Reported 3/14/2014

0

16-18-01-10	The soil	Y 11 1 1 2 2 2 1 1 1 2 1 1 1 1 1 1 1 1 1	The state of the s	ST 2.1	op Enouge	Mercicioniscos	And an annual state of the stat	0.575	o China	Total Control	nit ike	en cila	Agu.
				Col	rn-Grain	-		Whea	t-Spring		Ca	nola-bu	-1.044
0-6" 6-24"	9 lb/ac 6 lb/ac			YIE	LD GOAL		-	YIELD	GOAL		YIEL	D GOAL	ALL STREET, ST
		***		13	o BU			70	BU	the Contract of the Contract o	40	BU	
0-24''	15 lb/ac		SUG	GESTE	D GUIDELINE	ES	SUG	GESTED	GUIDELINES	Su	GGESTE	D GUIDE	LINES
Nitrate					Band			В	and			3and	THE RESIDENCE AND AND ASSESSMENT OF THE PERSON OF THE PERS
And the second contract of the second contrac			LB/	ACRE	APPLICAT	ION	LB/A	CRE	APPLICATION	LB,	ACRE	APPLI	CATION
Olsen Phosphorus	9 ppm	*****	N	141			N	174		N	125	Addition of the second	11116
Potassium	290 ppm	******	P <sub>2</sub> O <sub>5</sub>	42	Band *		P <sub>2</sub> O <sub>5</sub>	39	Band *	P <sub>2</sub> O <sub>5</sub>	32	Bar	nd *
Chloride			K <sub>2</sub> O	10	Band (2x	2) *	K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	0		
0-6" 6-24"		**********	CI				CI			CI			
Sulfur	4 79 22		S	0			S	0		S	15	Ва	ind
Zinc		******	В	0	and the same of	and agricultural property	В	0	The same of the sa	В	0		
Iron	1.09 ppm 21.5 ppm	***********	Zn	0			Zn	0		Zn	0	1	
Manganese	1.7 ppm	*****	Fe	0			Fe	0		Fe	0		Printing and Market
Copper	1.47 ppm	******	Mn	0		eer nasaw	Mn	0		Mn	0		Part of the street, Part
Magnesium	1585 ppm	*****	Cu	0	COMPANY OF THE PROPERTY OF THE	***	Cu	0		Cu	0		
Calcium	5960		Mg	0			Mg	0		Mg	0		
Sodium	The second secon	*****	Lime				Lime			Lime	The Assess towards		The Control of the Co
Org,Matter	a transmitted to the control of the	******				Catio	on Exch	ange	% Base S	aturatio	on (Tvi	oical Rai	nue)
Carbonate(CCE)			Soil	oH I	Buffer pH		Capacit	-		o Mg	% K	% Na	% H
0-6" 6-24"	0.56 mmho/cm 0.57 mmho/cm		0-6" 8 6-24" <b>8</b>		A CONTRACTOR OF STREET OF STREET CONTRACTOR OF STREET	4	18.6 me	q		5-20) 2 <b>7.2</b>	(1-7) <b>1.5</b>	(0-5) <b>0.6</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 52 K20 = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K2O = 26 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

> Northwood: (701) 587-6010 Benson: (320) 843-4109

> > SUBMITTED FOR:

ROA IVO

## SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 5-4E SECTION 22

ACRES 80 OTRSE

RANGE

PREV. CROP Soybeans

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION

2 MI SOUTH ON 59

**BOX 309** 

NIVERVILLE, MB

ROA 1EO

REF #

14041320 BOX #

LAB # NW90311

Date Sampled 10/02/2013

RENE PELOQUIN

ST. PIERRE, MB

**BOX 396** 

Date Received 10/04/2013

Date Reported 3/14/2014

0

Philippine In	The Soil	Ammersonin	di di	7.6	100	. Choire			E Cia	b Cybics	and the same of th	d Cik	nz Cho	
***************************************					Whe	at-Spring			Can	ola-bu	And the second second	Corr	n-Grain	
0-6" 6-24"	11 lb/ac 12 lb/ac				YIE	LD GOAL			YIELD	GOAL		YIEL	D GOAL	
		****			70	BU			40	BU	The state of the s	130	ви	er i i l'annaire de melleren
0-24"	23 lb/ac	100000000000000000000000000000000000000		SUG	GESTE	D GUIDELIN	ES	SUGO	SESTED	GUIDELINES	SUG	GESTE	D GUIDEL	INES
Nitrale			201			Band	The state of the s		Ва	and		E	Band	
And the second process of the second				LB/A	ACRE	APPLICAT	TION	LB/A	CRE	APPLICATION	LB/	ACRE	APPLIC	CATION
Olsen	7 ppm	*****		N	151			N	102		N	103		
Potassium	431 ppm	**	****	P <sub>2</sub> O <sub>5</sub>	43	Band <sup>3</sup>	<b>t</b> :	P <sub>2</sub> O <sub>5</sub>	36	Band *	P <sub>2</sub> O <sub>5</sub>	49	Ban	d *
C hloride	. Comment	Control of the Contro	The second secon	K <sub>2</sub> O	10	Band (Starter		K <sub>2</sub> O	0		K <sub>2</sub> O	10	Band (	(2x2) *
0-6" 6-24"	48 lb/ac 360 +lb/ac	***********	****	CI				CI			CI			
Sulfur				S	0			S	10	Band	S	0	444	
Boron	2.3 ppm	*******	****	В	0			В	0		В	0		*****
Zinc	0.76 ppm	*****		Zn	2	Band (Tr	iai)	Zn	2	Band (Trial)	Zn	0		
Iron	33,9 ppm	*****	****					Fe	0		Fe	0		error in the first common
Manganase	1.6 ppm	*********		Fe	0						-			
Copper	1.44 ppm	**********		Mn	0		- Control of the Cont	Mn	0	The same is the same of the sa	Mn	0	3	100,000,000 mg 100,000
Magnesium	2445 ppm	******	****	Cu	0			Cu	0		Cu	0		
		-		Mg	0			Mg	0	Ayenni Hi	Mg	0		
Calcium	6675 ppm	******	*****	Lime				Lime	I I	1	Lime			
Sodium	357 ppm	************	****	L	<u> </u>		1	A TOTAL PROPERTY OF THE PARTY O				4		
Org.Matter	7.1 %	************	****	Soll pH	рН	Buffer pH	12.2	on Excl		% Base:				1
Carbonate(CCE)								Capaci	ζγ	% Ca	% Mg	% K	% Na	% H
0-6" 6-24" Soi, Saits	0.68 mmho/cm 3.34 mmho/cm	*****	****	0-6" { 6-24" {			- 9	56.4 m	eq	(65-75) ( <b>59.2</b>	15-20) <b>36.1</b>	(1-7) <b>2.0</b>	(0-5) 2.8	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K20 = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 36 K20 = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 52 K2O = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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

Benson: (320) 843-4109

# SOIL TEST REPORT

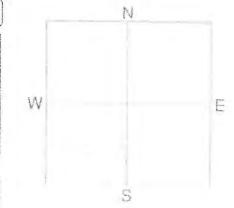
FIELD ID #7
SAMPLE ID
FIELD NAME
COUNTY

TWP 5-4E SECTION 23

QTRSW ACRES 80

RANGE

PREV. CROP Wheat-Spring



SUBMITTED FOR:

RENE PELOQUIN

BOX 396

ST. PIERRE, MB

ROA 1VO

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

REF # 12481311 BOX #

LAB # NW44766

Date Sampled 08/27/2013

Date Received 08/29/2013

Date Reported 3/14/2014

0

-Direct Is	a This issue	≥mréror ctation		il Cu	O Chile			of City	n) Charge		irg b	and the	Mile
				Ca	nola-bu			Corr	n-Grain		Who	eat-Spring	
0-6" 6-24"	21 lb/ac 18 lb/ac			YIEL	D GOAL			YIELU	D GOAL	**************************************	YIE	LD GOAL	****************
		*****		40	BU			130	BU		7	0 BU	
0-24"	39 lb/ac		SUG	GESTE	D GUIDELIN	NES	SUG	GESTE	GUIDELINES	SI	GGEST	ED GUIDE	LINES
Nitrate		Account of the contract of the		ŧ	Sand			В	and		CONTRACTOR CONTRACTOR		ALL THE PLANE OF THE PARTY OF T
Olsen	10		LB//	ACRE	APPLICA	TION	LB/A	CRE	APPLICATIO	V L	ACRE	APPLI	CATION
Phospharus	12 ppm	******	N	101			N	117	-	N	1		
Potassium	321 ppm	*****	P <sub>2</sub> O <sub>5</sub>	26	Band	*	P2O5	32	Band *	P <sub>2</sub> O	5		
Chloride	of the control of the		K <sub>2</sub> O	0	a description of the second		K <sub>2</sub> O	10	Band (2x2)	* K <sub>2</sub> C	100000000000000000000000000000000000000		
0-6" 6-24"	120 +lb/ac 360 +lb/ac	*******	CI				CI		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CI		-	
Sulfur Boron	2.7 ppm	*****	S	10	Band		S	0		S			
Zinc	The state of the s	*****	В	0			В	0		В	West of the second		
Iron		************	Zn	3	Band (Tr	ial)	Zn	2	Band	Zn	1000		
Manganese	1.2 ppm	********	Fe	0			Fe	0		Fe	AWARDED THE		AND THE PROPERTY.
Copper	1.48 ppm	******	Mn	0			Мп	0		Mn	1		nieneconocentroleie de l'enime
Magnesium	2041 ppm	******	Cu	0			Cu	0	Marian Control of the	Cu			
Calcium	6516 nnm	******	Mg	0	and the second s		Mg	0	The state of the s	Mg	1	***************************************	
Sodium	1	******	Lime		A Commence of the Commence of	- Printerior	Lime			Lime			
Org.Matter	5.4 %	**********	Soil ph			Catio	on Exch	lange	% Base S	aturat	on (Ty	pical Rai	nge)
Carbonate(CCE)				M E	uffer pH		Capacit	***		∕o Mg	% K	% Na	% H
0-6" 6-24"	1.0 mmho/cm 3.45 mmho/cm	*****	0-6" <b>8</b>			5	2.0 me	q		5-20) <b>32.7</b>	(1-7) <b>1.6</b>	(0+5) <b>3.0</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 36 K20 = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests, Crop Removal: P205 = 52 K20 = 35 AGVISE Band guidelines will build P & K test levels to the modium range over many years.



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

SUBMITTED FOR:

ROA IVO

Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 5-4E SECTION 27

RANGE

QTR NW ACRES 95

PREV. CROP Soybeans

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

**BOX 309** 

NIVERVILLE, MB

ROA 1EO

W

REF # LAB #

14041325 BOX #

NW90319

Date Sampled 10/02/2013

RENE PELOQUIN

ST. PIERRE, MB

**BOX 396** 

Date Received 10/04/2013

Date Reported 3/14/2014

0

missin) li	THE SON	Interp	imaliin	1		op.Coste	4	7.1	yili.Cts	p filmin	and the second	1	rd £7	eși Chi	
	**************************************				Whe	at-Spring		1	Can	ola-bu	on Airce or well		Cor	n-Grain	The second of Assessed
0-6" 6-24"	11 lb/ac 9 lb/ac				YIE	D GOAL			YIEL	O GOAL	A CONTRACTOR OF THE CONTRACTOR		YIE	D GOAL	
		***			70	BU		and a company	40	BU	The second	A (A)	13	0 BU	
0-24"	20 lb/ac	111		SUG	GESTE	D GUIDELI	NES	SUG	GESTE	GUIDELINE	≘s	SUG	GESTE	D GUIDE	LINES
Nitrate		Action that the first the formation of the first the fir	in the second se			Band		The state of the s	В	and			1	Band	O eteriorem (notal)
	****			LB/	ACRE	APPLICA	TION	LB/A	CRE	APPLICAT	ION	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	6 ppm	*****		N	154	Mary Control of Control		N	105			N	106		***
Potassium	309 ppm	*****	******	P <sub>2</sub> O <sub>5</sub>	46	Band	*	P <sub>2</sub> O <sub>5</sub>	38	Band *		P <sub>2</sub> O <sub>5</sub>	53	Baı	nd *
Chloride		To the second se	FIRST STATE CONTRACTOR	K <sub>2</sub> O	10	Ban (Starte		K <sub>2</sub> O	0			K <sub>2</sub> O	10	Band	(2x2) *
0-6" 6-24"		******	******	CI				CI				CI		***	
Sulfur Boron	A large of the lar			5	0			S	10	Band	1	S	0		
Zinc		*********	1	В	0	4		В	0	nero index cons		В	0		
Iron	27.9 ppm	*****		Zn	3	Band (Ti	rial)	Zn	3	Band (Tria	al)	Zn	2	Ва	ınd
Manganese	1,4 ppm	*****		Fe	0	****		Fe	0			Fe	0		***************************************
Copper	1.65 ppm	*****	*****	Mn	0		27.00.000000000000000000000000000000000	Mn	0			Mn	0		Year returned James
Magnesium	1699 ppm	*****		Cu	0	.,,	and the same of th	Cu	0			Cu	0		
Calcium				Mg	0		-	Mg	0			Mg	0		PR
Sodium	The second control of	******		Lime				Lime				Lime			
Org.Matter		******		partition of the same of the s	T		Cati	on Exch	ange	% Bas	e Sai	turatio	n (Tvi	oical Rai	nae)
Carbonate(CCE)				Soil pH	H He	Buffer pH		Capacit	-	% Ca		Mg	% K	% Na	% H
0-6" 6-24"	0.49 mmho/cm 0.73 mmho/cm	***********	1 1	0-6" <b>8</b>		ette keine en e	2	\$3.5 me	q	(65-75) <b>64.8</b>	(15-		(1-7) <b>1.8</b>	(0-5) <b>0.9</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 52 K2O = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



### SOIL TEST REPORT

FIELD ID 1 SAMPLE ID FIELD NAME COUNTY

TWP 5-4E RANGE

SECTION 28 QTR NE ACRES 55

PREV. CROP Wheat-Spring

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

W E

REF # 12481251 BOX #

LAB # NW50893

SUBMITTED FOR:

RENE PELOQUIN

BOX 396 ST PIERRE, MB

**ROA 1VO** 

Date Sampled 09/04/2013

Date Received 09/08/2013

Date Reported 3/14/2014

0

inter = to	The Sall	***************************************	200		0.00	( _ a = ); -	A An increase and	-	a Cri	p Chalen	-	ra sv	- Cho	-14 11
	With the state of				Ca	nola-bu	2		Corr	ı-Grain	A Company	Whe	at-Spring	TY THE STANKS WERE SHOW BASE
0-6" 6-24"	13 lb/ac 15 lb/ac				YIEL	D GOAL			YIELD	GOAL		YIEL	D GOAL	
		*****			40	BU			130	BU		70	BU	TELEVISION STATES OF PROPERTY OF STATES
0-24"	28 lb/ac			SUG	GESTE	D GUIDELIN	VES	SUG	GESTED	GUIDELINES	SU	GESTE	D GUIDE	LINES
Nitrate		- disconding to the second	Original Contraction			Band			В	and			Band	- intrinsico
		de est accompany de	A CONTRACTOR OF THE PARTY OF TH	LB//	ACRE	APPLICA	TION	LB/A	ACRE	APPLICATION	LB.	ACRE	APPLI	CATION
Olsen Phosphorus	3 ppm	*****	distance in the second	N	112			N	128		N	161		
Potassium	387 ppm	*****	*****	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	63	Band *	P <sub>2</sub> O <sub>5</sub>	53	Bar	nd *
Chloride			per Dermoja sisaliya	K <sub>2</sub> O	0	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		K <sub>2</sub> O	10	Band (2x2)	K <sub>2</sub> O	10		and ter)*
0-6" 6-24"		******		CI			-	CI			CI		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CONTRACTOR OF THE PARTY OF THE
Sulfur	and the second of the second of			5	15	Band		S	0	1	S	0		***************************************
Boron	1.3 ppm	*****	******	В	0	1		В	0		В	0	-	
Zinc	0.40 ppm	*****		Zn	2	Band (Tr		7-	2			1		
iron	25.7 ppm	******	******	Z11	-	Dana (11	iai)	Zn	4	Band	Zn	2	Band	(Trial)
Manganese	1.5 ppm	*****	* * * *	Fe	0		Can by California	Fe	0		Fe	0		
Copper	1.78 ppm	******	******	Mn	0	-	an my Access	Mn	0		Mn	0		
Magnesium	1969 ppm	*****	******	Cu	0	COAL SWANT THE COAL AND A SAID, A		Cu	0	1	Cu	0		
				Mg	0	***************************************		Mg	0	1	Mg	0	ar had a reconstruction of the	er francisco de la compaño e programa de la
Calcium	7294 ppm	*****	******		1				-			-	***************************************	A POST TO THE PARTY OF THE PART
Sodium	69 ppm	*****		Lime		1		Lime		ode may the end participations	Lime			
Org.Matter	5.0 %	*****	*****				Cati	on Excl	nange	% Base S	aturati	on (Ty	pical Rai	nge)
Carbonate(CCE)				Soil	pm !	Buffer pH		Capacil	У	% Ca	/o Mg	% K	% Na	% H
0-6" 6-24" Scl. Salts	0.65 mmho/cm 0.63 mmho/cm	*****		0-6" <b>8</b>		TELEVISION CONTRACTOR OF THE STATE OF THE ST		54.2 me	q	(65-75) (1 <b>67.3</b>	5-20) <b>30.3</b>	(1-7) 1.8	(0-5) <b>0.6</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 36 K20 = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 52 K20 = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



# SOIL TEST REPORT

FIELD ID # 13
SAMPLE ID
FIELD NAME
COUNTY

TWP 6-4E RANGE SECTION 3 OTR RL 44

SECTION 3 QTRRL44 ACRES 80

PREV. CROP Wheat-Spring

W

N

SUBMITTED FOR:

RENE PELOQUIN

**BOX 396** 

ST. PIERRE, MB

ROA 1VO

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION

2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

REF # 12481309 BOX #

LAB # NW44763

Date Sampled 08/27/2013

Date Received 08/29/2013

Date Reported 3/14/2014

			And a second	000	on Choice	Commence of the second		d Cn		AND THE PERSON OF THE PERSON O	na c	rop Ch	nine
electric control of the control of t				Car	nola-bu		W. 1	Corr	n-Grain		Wh	eat-Sprin	g
0-6" 6-24"	14 lb/ac 9 lb/ac			YIEL	D GOAL	And the state of t	Complete and	YIEL	D GOAL		YIE	ELD GOAL	
th, 1944 grand and		****		40	BU	the state of Chicago		130	BU		7	0 BU	
0-24''	23 lb/ac		SUG	GESTE	D GUIDELINE	5	SUG	GESTE	GUIDELINES	St	IGGEST	ED GUID	ELINES
Nitrale				Е	and	The same of the sa		В	and		***************************************	A1 - 1440 Jan	Ministry (NA)
Olsen			LB//	ACRE	APPLICATI	ON	LB/A	CRE	APPLICATIO	V LE	/ACRE	APPL	ICATION
Phosphorus	o ppm	******	N	117			N	133	*	N			
Potassium	270 ppm	*****	P <sub>2</sub> O <sub>5</sub>	38	Band *		P <sub>2</sub> O <sub>5</sub>	53	Band *	P <sub>2</sub> O	5		***************************************
Chloride			K₂0	0			K <sub>2</sub> O	10	Band (2x2)	* K <sub>2</sub> O	-	(T) (A)	Constant of the constant
0-6" 6-24"		*************	CI				CI		**************************************	CI			· · · · · · · · · · · · · · · · · · ·
Sulfur			5	10	Band		5	0		S	-		
Zinc	2.2 ppm		В	0			В	0	1	В			THE PARTY ASSESSMENT A
Iron	0.61 ppm 19.0 ppm	******	Zn	3	Band (Tria	1)	Zn	2	Band	Zn			•
Manganese	1.6 ppm	*****	Fe	0			Fe	0		Fe			
Copper	1.22 ppm	******	Mn	0	Total Control of the		Mn	0		Mn	-		
Y agnesium	1554 ppm	******	Cu	0		A COLUMN TO THE PERSON	Cu	0		Cu			(1) ( A ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
Calcium	A		Mg	0	The State of the S		Mg	0		Mg		-	
Sodium		******	Lime	er le aserte (me gar) y		L	ime	PARTY OF THE SEASON		Lime		1	· · · · · · · · · · · · · · · · · · ·
Org.Matter		*********				ation	Evel	2000	% Base \$	stursti	on /Tv	nical re-	
Carbonate(CCE)			Soil p	Н В	uffer pH		pacit		The same of the same of	6 Mg	% K	% Na	mge)
0-6" 6-24"		***********	0-6" <b>8</b> 6-24" <b>8</b>		into the second to the second		.9 me		(65-75)	5-20) <b>30.2</b>	(1-7) 1.6	(0-5) 1.0	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 36 K20 = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 52 K2O = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

APPENDIX 9.8

		LIVESIO	CK MANUR	E SPREADING AG	A COMMISSION OF T	
Between:	Prairie Organic	_ayer Farms	Ltd / Jan /	He	reafter referred to as "Li	ivestock Operator"
Jelween.	(Please Print		(Signa	-		
And:	Reg Friesen		135	He	reafter referred to as:	N and Destant
	(Please Print		(Signa	ature)	"Landowner" or $\square$	Land Renter
Date:	Aug 13/14					
The durat	ion of this agreemen	t is of $_{\underline{5}}$	years, beginnin	g at the above date.		
	sibilities of the La					
Land Pa	arcels selected	as potential			O Latardiana	Preferred Application
Field	Legal Location	(Check One)	Nominal Size (acres)	Area available for spreading	Cropping Intentions	Time
		Owned Rent	ed (acres)	(acres, exclusive of setbacks)		
7 & 8 9 & 10	RL 19 & 20 Rat River Parish	1	310	305	Canola	Fall
4	SE 32-6-4E	1	80	80	Grain Corn	Fall
3	NE & NW 8-7-4E	<b>V</b>	160	155	Spring Wheat	Fall
1	SE 19-7-4E		160	153	Spring Wheat	Fall
time ac cr	ocified below by the Li	vestock Operator	of \$ per	railable for spreading  ☐ 1000 gal or ☐ tonne, con  f agreed to as part of the manu		
will in	pecified below by the Li corporate manure with asibilities of the Li	vestock Operator n 48 hours of brovestock Ope	of \$ per ; adcast applications i	☐ 1000 gal or ☐ tonne, con		
will in	pecified below by the Li corporate manure with	vestock Operator n 48 hours of brovestock Ope ils on	of \$ per ; adcast applications i rator  spring Broadcast	□ 1000 gal or □ tonne, configured to as part of the manual summer  Summer  Fall  Broadcast and incorporate with	re application method (bel	
Respon Field A Applicat Livestock Custom A	pecified below by the Licorporate manure within sibilities of the Licorporate of the Licorporate of Application Detains Application Method tor	vestock Operator n 48 hours of brovestock Ope ils on	of \$ per ; adcast applications i rator  Spring Broadcast	☐ 1000 gal or ☐ tonne, confagreed to as part of the manus	re application method (bel	
Respon Field A  Applicat Livestock Custom A Anticipate will k  will k  will c	recified below by the Licorporate manure with corporate manure with a sibilities of the Licorporate of the Licorporate of the Licorporate of Application Method tor application Method tor applicator of Manure Application destock Operator: (Corporate of Manure Application of the Society out a manure and calculate the manure and the soil test recombined the soil test reco	vestock Operator n 48 hours of brovestock Ope ils on S Nam Starting Date: check where apords, but will not eling and these respectively sis test and the oplication rate for ammendations for	of \$ per ; rator  spring sroadcast njection	agreed to as part of the manual summer Fall Broadcast and incorporate with Irrigation/Sprinkler  d)  the consent of the Landowner a available to both the Landowner as available to both the Landowner of (check only one): ements, or quirements, or	and the Land Renter; and the Land Renter; and the Land Renter;	ow).
Respon Field A  Applicat Livestock Custom A Anticipate  The Live  will p  will c	recified below by the Licorporate manure within corporate manure within a sibilities of the Licorporate of the Licorporate of Application Detain Application Method tor Coperator Applicator and Manure Application estock Operator: (Coperator Applicator and Manure Application arry out a manure and calculate the manure and the soil test recomplication of the soil test recomplication	vestock Operator n 48 hours of brovestock Ope ils on S Nam Starting Date: Check where approach but will not or ing and these receives test and the oplication rate for mmendations for interpolations for i	of \$ per; adcast applications i rator  spring Broadcast njection  e of applicator:  oplicable/propose disclose them without sults will be made avaresults will be made each field on the bas plant nitrogen requir plant phosphorus re ions as per the Soil F	agreed to as part of the manual summer Fall Broadcast and incorporate with Irrigation/Sprinkler  d) the consent of the Landowner a available to both the Landowner as available to both the Landowner is of (check only one): ements, or	and the Land Renter; and the Land Renter; and the Land Renter;	ow).
Respon Field A  Applicat Livestock Custom A Anticipate  Will p  will c  Beef/Dai	Application Deta Time of Application Method  tor Operator Applicator ed Manure Application estock Operator: (Consequence of the end	vestock Operator n 48 hours of brovestock Ope ils on S Nam Starting Date: Check where approached by the series of	of \$ per ; adcast applications i rator  Spring Broadcast njection  e of applicator:  oplicable/propose disclose them without sults will be made avaresults will be made each field on the bas plant nitrogen requir plant phosphorus re ions as per the Soil F eries gure spreading equipi	agreed to as part of the manual fagreed to a part of the Landowner and the consent of the	and the Land Renter; nd the Land Renter; r and the Land Renter; r and the Land Renter;	m Practices Guidelines fo
Respon Field A  Applicat Livestock Custom A Anticipate  Will b  will c  Beef/Dai	pecified below by the Licorporate manure within corporate manure within sibilities of the Licorporate of Application Detain Application Method tor Application Method Manure and Manure and Method	vestock Operator n 48 hours of brovestock Ope ils on S Nam Starting Date: view where aports, but will not be be plication rate for memendations for memendations for interest in Manitoba's ration for the marked the Land Rent	of \$ per ; rator  Spring	agreed to as part of the manual fagreed to as part of the Landowner as part of the Landowner as part of the Landowner fagreed to both the	and the Land Renter; Ind the Land Renter; In and the Land Renter; Iture and Food) or the Fari	m Practices Guidelines fo
Respon Field A  Applicat Livestock Custom A Anticipate  The Live  will p  will c  Beef/Dai  will c	recified below by the Licorporate manure with corporate manure with a sibilities of the Licorporate of the Licorporate of Application Detains Application Method tor Coperator Applicator and Manure Application Detains all costs for soil test recompany and the soil test recompany and t	vestock Operator n 48 hours of brovestock Ope ils on S Nam Starting Date: Theck where approach but will not or ing and these receives test and the oplication rate for mmendations for immendations for immendatio	of \$ per ; adcast applications i rator  Spring	agreed to as part of the manual fagreed to a part of the Landowner and the consent of the	and the Land Renter; Ind the Land Renter; Ind the Land Renter; In and the Land Renter; Iture and Food) or the Fan	m Practices Guidelines fo



# SOIL TEST REPORT

FIELD ID 788 SAMPLE ID

FIELD NAME - PART 1

COUNTY 6-4E RANGE TWP

QTRSW ACRES 158 SECTION 10 PREV. CROP Soybeans

RL 19 \$20, PARISH OF RAT RIVER E W

N

SUBMITTED FOR:

RPL FARMS

BOX 184 NIVERVILLE, MB

ROA 1EO

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB ROA 1EO

S 14041331 BOX # REF # NW104960 LAB #

Date Received 10/11/2013 Date Sampled 10/09/2013

Date Reported 10/15/2013

Nutrient In T	he Soil	Interpretation	18	t Cro	p Chaice		2/11	d Cra	g Choice	31	a tro	p Chair	0.61
	THE RESERVE TO SERVE THE S	Ran Fran Des Ferre		Whee	rt-Spring			Cane	ila-bu		Corn	-Grain	
0-6"	13 lb/ac			YIEL	D GOAL			YIELD	GOAL		YIELI	GOAL	
6-24"	30 lb/ac	<b></b>		75	Bü			45	BU		130	ви	
0-24"	43 lb/ac		SUGI	ESTE	D GUIDELINE	5	SUGE	SESTED	GUIDELINES	SUG	GESTEL	GUIDEL	INES
Netrate			-	ı	3and			8	and		В	and	
and the second s			LB//	CRE	APPLICAT	ION	LB/A	CRE	APPLICATION	LB/	ACRE	APPLIC	ATION
Olsen	10 ppm	*****	N	145			N	100		N	83		
Protestus Potestus	346 ppm		P <sub>0</sub> G <sub>3</sub>	39	Band *		P2O5	34	Band *	PyOs	39	Band	d *
			K <sub>2</sub> O	10	Band (Starter		K <sub>2</sub> O	0		K <sub>2</sub> O	10	Band (	2×2) *
Chloride 0-6"	and the second s		CI				-61		-	C)			
6-24" Sultur	360 +lb/ac		5	0			5	10	Band	S	0		
Baran	2.3 ppm	*****	В	0			В	0		В	0		
Zinc	0.70 ppm		Zn	2	Band (Tr	ial)	Zn	2	Band (Trial)	Zn	0		
Irna	17.8 ppm		Fe	0			Fe	0		l'è	0	***************************************	***
Manganese	1.8 ppm		-	0			Min	n.		Mn	0		
E oppe.	1.57 ppm	*****	Mn	-				-		Cu	0		
Magnesium	2003 ppm	1000	Cu	0			Cu	0				-	
O#1C tusts	6747 nnm		Mg	0			Mg	0		Mg	0		
Sodium			Lime				Lame			Lime			
Dig Matter	5.3 %					Cat	ion Exc	hange	% Base	Saturati	on (Ty	pical Rai	nge)
; arbonate(CCF)			Soil	pH	Buffer pH		Capac	ity	% Ca	% Mg	% K	% Na	% H
0-6" 6-24"	1.1 mmho/cm 1.3 mmho/cm		E-6*				52.0 m	eq	(65-75) <b>64.9</b>	(15-20) <b>32.1</b>	1.7	1.3	(0-5)

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P B K even on high soil tests. Crop Removal: P2O5 = 47 K2O = 28 AGVISE Band guidelines will build P B K test levels to the medium range over many years.

test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 41 K20 = 20 A GVTSE Band guidelines will build P & K conditions. Use the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 52 K20 = 35 A GVTSE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

ROA 1EO

#### SOIL TEST REPORT

QIR

FIELD ID 9 SAMPLE ID FIELD NAME COUNTY

PL 19/20 PARISH OF RAT RIVER RANGE - PARTZ

ACRES 71

SECTION PREV. CROP Soybeans

TWP 6-4E

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

ROA 1EO NIVERVILLE, MB

N E W S

14041332 BOX # REF # NW104964

LAB #

Date Sampled 10/09/2013

RPL FARMS

BOX 184

NIVERVILLE, MB

Date Received 10/11/2013

Date Reported 10/15/2013

Nutrent in 1	he Soil	Interpretation	1.5	t Cre	sp Choice	20	d Crn	p Choice	30	d Cro	p Chok	e
		and the least		Whea	it-Spring		Cano	la-bu		Corn	-Grain	
0-6"	10 lb/ac			YIEL	D GOAL		YIELD	GOAL		YIELD	GOAL	
6-24"	30 lb/ac			25	8u		45	80		130	BU	
0-24"	40 lb/ac		SUGG	ESTE	D GUIDELINES	SUG	GES 1ED	GUIDELINES	SUG	GESTED	GUIDEU	NES
sitrate				1	Band		Ba	and		В	and	
			LB/A	CRE	APPLICATIO	N LB/	ACRE	APPLICATIO	N 18/	CRE	APPLIC	ATION
Olsen	8 ppm		N	148		N	103		N	86		
Phosphorus	312 ppm		P206	44	Band *	P2O5	38	Band *	PyOs	46	Band	1 *
			K30	10	Band (Starter)*	K20	0		K <sub>2</sub> O	10	Band (	2×2) '
0-6"			CI			CI			CI			
6-24"	360 +lb/ac		S	D		5	15	Band	5	0		
Boret	2.0 ppm	******	В	0		В	0		В	0		
Zini	0.41 ppm	******	2n	3	Band (Tria	) Zn	3	Band (Tria	) Zn	3	Bar	nd
I non	17.8 ppm	*****	Fe	0		Fe	0		10	0		
Manganese	2,2 ppm		-	0		Mn	0		Mo	0		w.w.w.
Copper	1.79 ppm		Min	-			1		Cu	0	-	
Magnesium	2059 ppm	\$0000000000000000000000000000000000000	Cu	0		Cu	0	-	Ma	0	-	***************************************
Calcium	6207 ppm		Mg	0		Mg	0			-	-	10007111
Sodium			Lime	1		Larre		j	Lante	<u> </u>		
Org Matter	4.4 %			-11	Buffer pH	Cation Ex	change	% Base	Saturati			7
Carbonate(CCE)			Soil	pri	Builet pri	Capa	city	% Ca	% Mg	% K	% Na	% H
0-6" 6-24"	0.48 mmho/cm	******	0-6"	20000		49.6	neq	62.6	34.6	1.6	1.1	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nibrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nibrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local Crop II: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nibrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local Crop II: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nibrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local Crop II: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nibrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local Crop II: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nibrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local Crop II: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nibrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local Crop II: \* Caution: Seed Fertilizer Can Cause Injury \* Nibrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local Crop II: \* Caution: Seed Fertilizer Can Cause Injury \* Nibrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local Crop II: \* Caution: Seed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted by the Seed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop II: \* Caution: Seed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop II: \* Caution: Seed Fertilizer Can Cause Injury \* Nitrogen is credited II: \* Caution: Seed Fertilizer Cause Injury \* Caution: Seed Fertilizer Caution: Seed Fertilizer Caution: Seed Fertilizer Caution: S

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 41 K20 = 20 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

The travers to the incomin range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 52 K20 = 35 KGVISE Band guidelines will build P & K conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 52 K20 = 35 KGVISE Band guidelines will build P & K test levels to the medium range over many years.



#### SOIL TEST REPORT

FIELD ID 10 SAMPLE ID FIELD NAME COUNTY

SECTION 5

TWP

PARISH OF RAT RIVER 3

QTR RL ACRES 77

E W

SUBMITTED BY: PR2421 PRAIRIE SKY AVIATION

2 MI SOUTH ON 59

PREV. CROP Soybeans

BOX 309 NIVERVILLE, MB

ROA 1EO

14041333 BOX # REF # LAB # NW104972

S

SUBMITTED FOR:

RPL FARMS

BOX 184 NIVERVILLE, MB

ROA 1EO

Date Sampled 10/09/2013

Date Received 10/11/2013

Date Reported 10/15/2013

Nutrient In	The Soil	Interpretation	111	i Cr	op Choice		20	d Cro	p Choice	3	rd Cro	op Cho	CO.
-		Vicini sun Med Fulls		Whe	at-Spring			Can	ola-bu		Cor	n-Grain	
0-6" 6-24"	11 lb/ac 27 lb/ac			YIE	LD GOAL			ALLT	GOAL		YIEL	D GOAL	
0-24	2710/00			75	s Bu			45	āu		130	Bu	
0-24"	38 lb/ac		SUG	SESTE	D GUIDELIN	ES	SUGO	SESTED	GUIDELINES	500	GESTE	D GUIDEL	INES
Nutrate					Band			8	and		٤	and	
			1B/	CRE	APPLICAT	NOF	LB/A	CRE	APPLICATIO	ON LB.	ACRE	APPLIC	ATION
Olsen	6 ppm	*****	N	150			N	105		N	88		
Potessum	397 ppm		P <sub>2</sub> O <sub>5</sub>	49	Band *		P2O6	43	Band *	P205	53	Ban	d *
Chionds			K,0	10	Band (Starter	9.1	K <sub>2</sub> O	0	The state of the s	K20	10	Band (	2×2) *
0-6" 6-24"			52			11000	Cl			CI			
Sulfor	,		s	0			S	10	Band	5	0		
baron	1.6 ppm	***************	8	0			B	0		В	0		
Inc	0.53 ppm	*****	Zo	2	Band (Tr	ial)	Zn	2	Band (Tria	I) Zn	2	Ba	nd
Tron	18.8 ppm	***************************************	Fe	0			Fe	0		Fe	0	1	
Manganese	2.1 ppm	******	-	ļ		-		0	-	160	0	+	
Cobhs	1.62 ppm		Mn	0		_	Mo	U		7981	+		
Magnesium	1709 ppm		Cu	0			Cu	0		Çu	0		
			Mg	0			Mg	0		Mg	0		
Caterom	7141 ppm		Lime				Lune			Lime			
Org Matter	62 ppm 5.8 %		*	1		Car	ion Exc	hanna	% Base	Saturati	on (Ty	pical Rai	nge)
Carbonates CE)	3.8 %		Soil	рН	Buffer pH		Capaci		% Ca	% Mg	% K	% Na	% H
0-6" 6-24"	0.62 mmho/cm 0.73 mmho/cm		0-5° 6-24°				51.2 m	eq	(65-75) 69.7	(15-20) <b>27.8</b>	(1-7) 2.0	(0.5)	(0.5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Mitrogen is credited 15 fbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2OS = 47 K2O = 28 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

test levels to the measure range over many years.

Crop 2: Caution: Seed Placed Fortiker Can Causa Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Nany crops may respond to a starter application of P B K even on high soil tests. Crop Removals P205 = 41 K20 = 20 A GVISE Band guidelines will build P B K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fortilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Nany crops may respond to a starter application of P B K even on high soil tests. Crop Removal: P205 = 52 K20 = 35 A GVISE Band guidelines will build P B K test levels to the medium range over many years.



#### SOIL TEST REPORT

FIELD ID 4 SAMPLE ID FIELD NAME COUNTY

TWP 6-4E

SECTION 32 QTR Se ACRES 79

PREV. CROP Soybeans

SUBMITTED FOR:

ROA 1EO

RPL FARMS

PO BOX 184

NIVERVILLE, MB

BOX 309

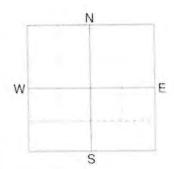
SUBMITTED BY: PR2421

RANGE

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

NIVERVILLE, MB

ROA 1ED



REF # 14041326 BOX #

LAB # NW94035

Date Sampled 10/03/2013

Date Received 10/07/2013

Date Reported 3/10/2014

0

Nutrient In	The Soil	Interpre	tation	15	t Cri	op Choice	and the second	2n	d Cro	p Choice	31	rd Cro	p Cho	CE
					Whe	at-Spring			Com-	-Gram		Car	ud star	
0-6" 6-24"	17 lb/ac 66 lb/ac				YIEI	D GOAL			YIELD	GOAL		YIEL	D GOAL	
0-24	80 10/ 80				75	BU			130	BU		45	BU	
0-24"	83 lb/ac	Administration of the second		SUG	SESTE	D GUIDELIN	ES	SUGG	ESTED	GUIDELINES	SUG	GESTE	D GUIDEL	INES
Nitrate						Band	-		88	ind	-	ŧ	sand	
				18/4	CRE	APPLICAT	ION	LB/A	CRE	APPLICATION	LB/	ACRE	APPLIC	ATION
Olsen	35 ppm	**********	*****	N	105			N	43		N	60		
Polassium	400 ppm	••••••		P205	15	Band (Starter	-	P <sub>2</sub> O <sub>5</sub>	15	Band (2x2)	P_05	10	Ba (Start	nd ter)*
Enlande				K <sub>3</sub> O	10	Band (Starter	1	K <sub>2</sub> O	10	Band (2x2)	• K <sub>2</sub> O	0		
0-6" 6-24" Sulfur	120 +lb/ac 360 +lb/ac	***********	and the second second	C)				CI		40.000	Ci			
Boron	3.0 ppm	*******	*****	5	0			5	0		5	10	Bar	nd
Zens	2.25 ppm	******	*****	В	0			8	0		В	0		
Iron	12.3 ppm			Zn	0			Zn	0		Zn	0		
Manganese	2.0 ppm		*****	Fe	0			re	0		Fe	0		
Copper	1.89 ppm	The second second		Mn	0	-		Mn	0		Mn	0		
Magnesium	2168 ppm	******		Cu	0	in the same of the		Cu	0		Cu	0		
				Mg	0			Mg	0	and the same of th	Mg	0		
Catrium	4857 ppm	44444	*****	Lime		1		Lime			time			•
Sodam	259 ppm	**********			1					% Base	Camerani	on (Tv	nical Da	ana)
Crg Matter	5.1 %	************	*****	Soil	рН	Buffer pH	Cat	ion Exc Capaci		% Ca	% Mg	% K	% Na	% H
Carbonate(CCE)	4 03			-								-		
0-6" 6-24"	1.03 mmho/cm 1.45 mmho/cm			5-24"	-			44.5 m	eq	54.6	40.6	2.3	2.5	(9-53

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2OS = 47 K2O = 28 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2OS = 52 K2O = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2OS = 41 K2O = 20 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

ROA 1EO

#### SOIL TEST REPORT

FIELD ID 3 SAMPLE ID FIELD NAME COUNTY

RANGE TWP 7-4E

SECTION 8 QTR NEW ACRES 156

PREV. CROP Soybeans

SUBMITTED BY: PR2421

PRAIRIE SKY AVIATION 2 MI SOUTH ON 59

BOX 309

NIVERVILLE, MB

ROA 1EO

N E W S

DEE # 14041328 BOX #

NW94026 LAB #

Date Sampled 10/03/2013

RPL FARMS

PO BOX 184

NIVERVILLE, MB

Date Received 10/07/2013

Date Reported 10/8/2013

0

Nutrient In	The Soil	In	terp	retatio	0	14	I Cm	op Choice		Zn	d Cro	p Chaice	3/	d Cro	o Cho	Cit
		.,		Ned I			Whe	at-Spring			Com	-Grain		Can	ola-bu	
0-6"	9 lb/ac 15 lb/ac						YIEL	D GOAL			VIELD	GOAL		YIELI	GOAL.	
6-24"	15 (0) ac	****					75	BU			130	BU		45	BU	
0-24"	24 lb/ac	-				SUGO	GESTE	D GUIDELINE	ES.	SUGO	SES TED	GUIDELINES	SUG	GESTEL	GUIDEL	INES
Nitrate		or constants	11000				13	Band			В	end		В	and	
						LB/A	CRF	APPLICAT	TON	LB/A	CRE	APPLICATION	ON LB/	ACRE	APPLIC	ATION
Olsen	13 ppm	•••••	*****	******	•	N	154			N	102		N	119		
# otacs-ulm	257 ppm					P <sub>2</sub> Os	32	Band *		P205	29	Band *	P <sub>2</sub> O <sub>S</sub>	27	Ban	d *
Chlande						К,О	10	Band (Starter		K <sub>2</sub> Q.	10	Band (2x2	)* κ <sub>2</sub> Ο	0		
0-6"	22 lb/ac					C)				CI			CI.	-		
6-24"	360 +lb/ac	*****		******		5	0			5	0		S	15	8a	nd
Borge	2.2 ppm	****	****		****	В	0			В	0		В	0		
Linz	0.69 ppm					Zn	3	Band (Tri	(al)	Zn	2	Band	Zn	3	Band (	Trial)
Iron	17.6 ppm	*****	****		****	-	0			i e	0		Fe	0		
Manganese	2.3 ppm	*****	*****			Fe.	-	_				-	-	-	1	
Co/per	1.54 ppm	4	4		reasonment some	Mn	D			Mrs	0		Mo	0	1	N/1000000000000000000000000000000000000
Magnesium	1586 ppm		1			Cu	0			Cu	0	-	Cu	0		*********
	****	ļ	-	-	-	Mg	0			Mg	0		Mg	0		
Calcium	5685 ppm	*****			****	Lime	1			Lutte			Line			
Sacion	81 ppm	****	****	**	_		1			31	1	1		-		
Dirg Marter	4.9 %	****		• • • • • • • •		Soil	рН	Buffer pH	Cat	ion Exc			e Saturati			1
Carbonate(CCF)	· · · · · · · · · · · · · · · · · · ·	-								Capac		% Ca	% Mg	% K	% Na	% H
0-6" 6-24"	0.4 mmho/cm 0.77 mmho/cm					2+6* 6-24*				42.7 m	eq	(8.5 - 2.5.) 66.6	31.0	1.5	0.8	(5-5)

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Mitrogen is cradited 15 ibs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2OS = 47 K2O = 28 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 52 K20 = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 41 K20 = 20 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

ROA 1EO

#### SOIL TEST REPORT

FIELD ID 1 SAMPLE ID FIELD NAME COUNTY

TWP

RANGE 7-4E

SECTION 19 QTR SE ACRES 153

SUBMITTED BY: PR2421

PREV. CROP Soybeans

2 MI SOUTH ON 59

NIVERVILLE, MB

BOX 309

PRAIRIE SKY AVIATION

S

14041322 BOX #

W

NW87851 LAB #

Date Sampled 10/02/2013

RPL FARMS

NIVERVILLE, MB

BOX 184

Date Received 10/03/2013

ROA 1EO

Date Reported 10/7/2013

0

E

Nutrient In	The Sull	Interp	retatio	ET .	15	ten	op Choice	-	2n	d Cra	pchoice	3	nd Cro	p Choi	ce
and the same of th		y2 -1-y			***************************************	Whe	at Spring	-		Can	nla-bu		Corr	-Gram	
0-6" 6-24"	11 lb/ac 18 lb/ac					YIE	LD GCAL	-	4	AILTE	GOAL		YIEL	D GOAL	
•	20.0,22	*****				7:	5 BU			45	BU		130	BU	
0-24"	29 lb/ac	and the second			SUG	SEST	ED GUIDELIN	5	SUGU	ESTED	GUIDELINES	SUC	GESTE	GUIDEL	INFS
Nitrate		may place a make	and income				Band			B.	and		E	and	
		- Live			LB//	CRE	APPLICAT	ION	LB/A	CRE	APPLICATIO	N LB/	ACRE	<b>АРРЦ</b> С	ATION
Olsen	14 ppm	******	••••	***	N	159			N	114		N	97		
Potassium	280 ppm				P <sub>2</sub> O <sub>5</sub>	29	Band *		F <sub>2</sub> O <sub>5</sub>	25	Band *	P <sub>2</sub> O <sub>5</sub>	25	Ban	d *
Chloride		Administration of the control of the	-		K <sub>2</sub> Q	10	Band (Starter	1	<b>€</b> ,0	0		K,0	10	Band (	2×2) *
0-6" 6-24"			3 3		CI				CI			CI			*******
Sulfut			-		5	0			5	15	Band	5	0		
Baren	1.8 ppm	*****	******	****	В	0			В	0		В	0	1	
Z-ns Iven			1		Zn	3	Band (Tr	ial)	Zn	3	Band (Tria	) Zn	2	Bar	nd
Manganese	13.6 ppm 1.7 ppm			****	Fe	0			Fe	0		Fe-	0		***************************************
Copper					Mei	0			Mn	0		Mn	0		
Magnesium	1680 ppm	**********		****	Cu	0			Cu	0		Cu	0		
Calcum	5518	******			Mg	0			Mg	0		Mg	0		
Spisum		*****			Lime				Lime		Responsed (A)	Lime	_		walkan kan inni
Dirg.Matter								Cat	ion Exc	hange	% Base	Saturati	on (Ty	pical Rar	nge)
Carbonale(CCE)					Soil	рн	Buffer pH		Capaci	ty	% Ca	% Mg	% K	% Na	% H
0-5" 6-24"	0.46 mmho/cm 0.83 mmho/cm				8-6" 6-24"	3			43.1 m	eq	(65-75) 65.1	(15-20) <b>32.5</b>	(1-7) 1.7	(9-5) 0.7	(0:5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2OS = 47 K2O = 28 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

test seves to the medium range over many years.

Crop 2: Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 41 K20 = 20 & CVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 52 K20 = 35 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

# Appendix 10

# **CROP ROTATION TABLE**

The land requirement reflected below, including the crop yields, was developed in consultation with MAFRD.

A	В	С	D	E
Expected Crops in the Rotation	Acreage	Historical Yield	Units	Source of Yield Information
Alfalfa	195	1.866	tons/acre	MASC data – 10 year yield (2004-2013)
Canola	1,240	32.3	bu/acre	MASC data - 10 year yield (2004-2013)
Corn Grain	1,152	87.1	bu/acre	MASC data – 10 year yield (2004-2013)
Grass Hay	761	1.83	tons/acre	MASC data – 10 year yield (2004-2013)
Soybeans	310	30.1	bu/acre	MASC data - 10 year yield (2004-2013)
Spring Wheat	480	46.4	bu/acre	MASC data - 10 year yield (2004-2013)
Total Net Acreage for Manure Application	4,138			

A. List all of the crop(s) to be grown in the rotation on the acreage that will receive manure.

B. Indicate the average acreage for each crop over the rotation. For example, if there are 720 suitable acres available for manure and approximately 40 these acres will be used to grow canola, enter 288. The total of column B should add up to Total Net Acreage for Manure Application provided in the Manure Application Field Characteristic Table.

C. Enter the historical yield average for each crop. Long-term yield averages can be determined using MASC data (http://www.masc.mb.ca/masc.nsf/index.html?OpenPage) or on-farm yield records. If on-farm yield records are used, please provide copies.

D. Enter the units for the yields provided (e.g. bu/acre, tons/acre).

E. Enter the source of the historical yield average provided.

Appendix 11 - POL Land Base Calculator - 1e - Poultry

Species / Commodity	Type of Operation	Storage Type	Volatilization	Bird Places	Weight In
Chickens	Broilers	Field Storage	40%	0	0.05
Chickens	Broiler Breeder Pullets	Field Storage	40%	0	0.05
Chickens	Broiler Breeder Hens	Field Storage	40%	0	4.40
Faaa	Layer Pullets	Liquid Covered	10%	0	0.05
Eggs	Layer Hens	Mechanically Dried	40%	128000	3.03
Eggs	Breeder Pullets	Liquid Covered	10%	0	0.05
Eggs Eggs	Breeder Hens	Liquid Covered	10%	0	3.03
Turkov	Broiler Hens (0-9 wks)	Field Storage	40%	0	0.06
Turkey Turkey	Hens (0-11 wks)	Field Storage	40%	0	0.06
Turkey	Heavy Hens (0-14 wks)	Field Storage	40%	0	0.06
Turkey	Light Toms (0-12 wks)	Field Storage	40%	0	0.06
Turkey	Toms (0-13 wks)	Field Storage	40%	0	0.06
Turkey	Heavy Toms (0-15 wks)	Field Storage	40%	0	0.06
Turkey	Breeding Hen Growers (0-30 wks)	Field Storage	40%	0	0.06
Turkey	Breeding Hens (30-60 wks)	Field Storage	40%	0	26.95
Turkey	Breeding Tom Grower (0-18 wks)	Field Storage	40%	0	0.06
Turkey	Breeding Tom Grower (0-30 wks)	Field Storage	40%	0	0.06
Turkey	Breeding Tom (30-60 wks)	Field Storage	40%	0	50.89

Weight Out	Average Weight	Days on Feed	Cycles per Year	N Excreted Adjusted for N Loss Ib/flock/yr	P2O5 Excreted lb/flock/yr
4.36	2.20	33	7.4	0	0
4.40	2.23	140	2	0	0
8.67	6.53	273	1	0	0
3.04	1.54	133	2	0	0
3.74	3.38	355	1	104741	119929
3.04	1.54	133	2	0	0
3.74	3.38	351	2 1	0	0
12.39	6.22	63	4	0	0
16.46	8.26	77	3.5	0	0
21.19	10.62	98	3	0	0
21.19	10.62	84	3	0	0
26.84	13.45	91	3	0	0
30.29	15.18	105	2.5	0	0
26.95	13.51	210	1	0	0
24.95	25.95	210	1	0	0
33.92	16.99	126	2	0	0
50.89	25.47	210	1	0	0
61.86	56.38	210	1	0	0

. .

Appendix 11.1 - POL Land Base Calculator - 2 - Crop Rotation

	Rem	oval	Uptake					Rem	oval	Uptake
Crop	P2O5	N	N	Units	Yield	Units	Acreage	P2O5 (lb)	N (lb)	N (lb)
Alfalfa	13.8	58	58	lb/ton	1.866	ton/ac	195	5021	21104	21104
Barley Grain	0.42	0.97	1.39	lb/bu		bu/ac		-	-	-
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac		-	-	-
Canola	1.04	1.93	3.19	lb/bu	32.3	bu/ac	1240	41654	77300	127766
Corn Grain	0.44	0.97	1.53	lb/bu	87.1	bu/ac	1152	44149	97329	153519
Corn Silage	12.7	31.2	31.2	lb/ton		tons/ac		-		-
Dry Edible Beans	1.39	4.17		lb/cwt		cwt/ac		-	-	-
Fababeans	1.79	5.02	8.4	lb/cwt		cwt/ac		-	-	-
Flax	0.65	2.13	2.88	lb/bu		bu/ac		-	-	-
Grass Hay	10	34.2	34.2	lb/ton	1.83	tons/ac	761	13926	47628	47628
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac		-	-	-
Oats	0.26	0.62	1.07	lb/bu		bu/ac		*	-	+
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac		-	+	-
Peas	0.69	2.34	3.06	lb/bu		bu/ac		-	-	*
Potatoes	0.09	0.32	0.57	lb/cwt		cwt/ac		-	-	-
Rye	0.45	1.06	1.67	lb/bu		bu/ac		-7	-	-
Soybeans	0.84	3.87	5.2	lb/bu	30.1	bu/ac	310	7838	36111	48521
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	46.4	bu/ac	480	13140	33408	46994
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-
						Sub Tota	4138	125730	312881	445532
			Estimat		Add	Iptake (lb/ac) ditional Acres ditional Acres	5	30.4	75.6	107.7
			Total			le for Manure				

Last revised August 20, 2014

Appendix 11.2 - POL Land Base Calculator - 3 - Farm Excretion

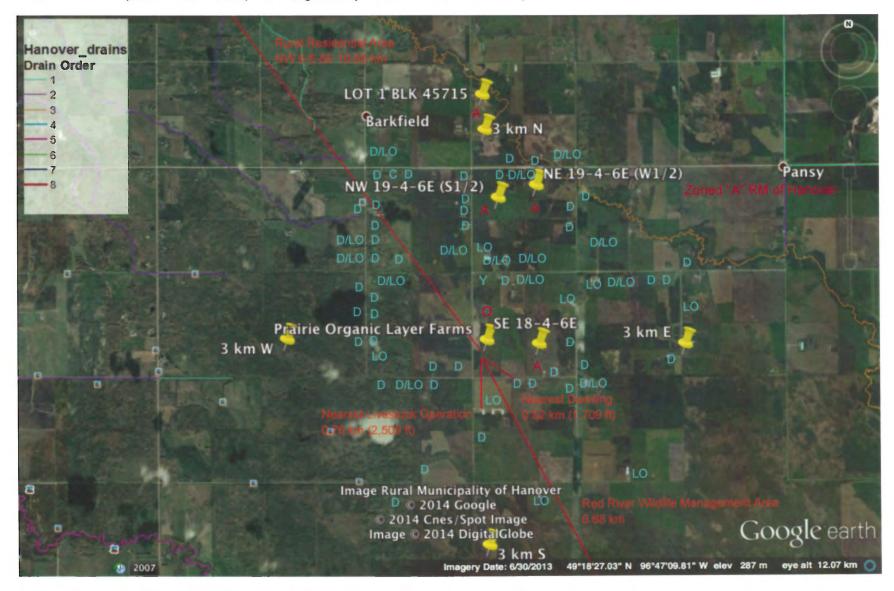
Species	Animal Category/Operation type	N	P205
		(lb/year)	(lb/year)
Pigs	Gestating Sow	0	0
	Nursing Sow	0	0
	Gilts	0	0
	Boars	0	0
	Sows, farrow to 5 kg	0	0
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	0	0
	Weanlings	0	0
	Growers/finishers	0	0
Beef	Cows	0	0
DCC1	Bred Heifers	0	0
	Calves	0	0
	Bulls	0	0
		0	0
	Cows, plus associated livestock	0	0
	Feedlot Cattle - grain based diet		0
	Pasture Cattle	0	
	Backgrounders	0	0
Dairy	Lactating cow	0	0
	Dry cow	0	0
	Calf, 0-3 months	0	0
	Calf, 4-13 months	0	0
	Replacements, >13 months	0	0
	Mature Cows, plus assoc livestock	0	0
Sheep	Ewes	0	0
	Replacement Ewes	0	0
	Rams	0	0
	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
Chickens	Broilers	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
Layers	Layer Pullets	0	0
Layers	Layer Hens	104741	119929
	Breeder Pullets	0	0
	Breeder Hens	0	0
Turkeys	Broiler Hens (0-9 wks)	0	0
Turkeys	Hens (0-11 wks)	0	0
			0
	Heavy Hens (0-14 wks)	0	
	Light Toms (0-12 wks)	0	0
	Toms (0-13 wks)	0	0
	Heavy Toms (0-15 wks)	0	0
	Breeding Hen Growers (0-30 wks)	0	0
	Breeding Hens (30-60 wks)	0	0
	Breeding Tom Grower (0-18 wks)	0	0
	Breeding Tom Grower (0-30 wks)	0	0
	Breeding Tom (30-60 wks)	0	0
	Total	104741	119929

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

Appendix 11.3 - POL Land Base Calculator - 4 - Land Base Summary

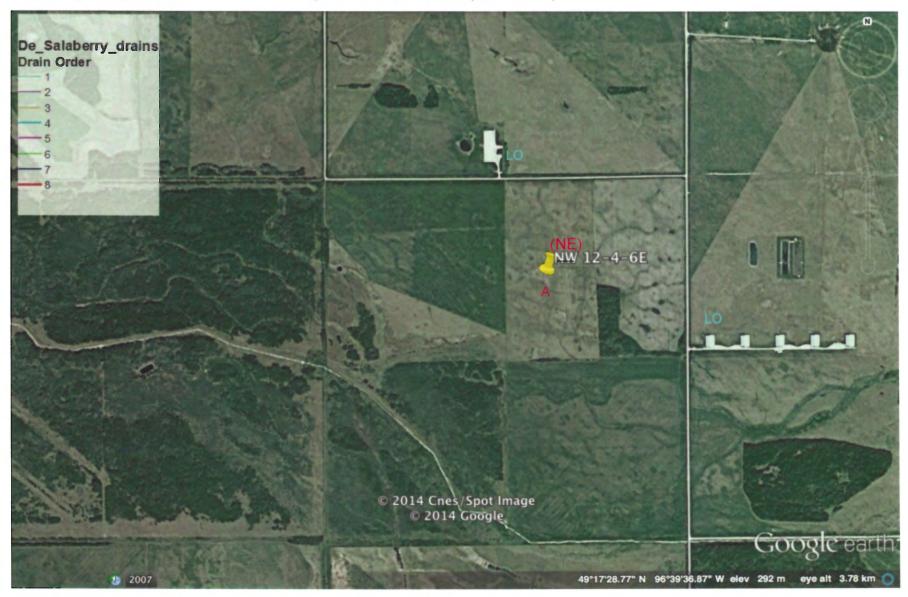
Nutrients Excreted	lbs
Nitrogen	104741
P205	119929
Crop Nutrient Use	lb/ac
Nitrogen Uptake	107.7
P2O5 Removal	30.4
Land Base Requirements	acres
Acres Available	4138
Acres for Nitrogen Uptake	973
Acres for 2 x P2O5 Removal	1974
Acres for 1 x P2O5 Removal	3947

Appendix 12
Land Use Map: Prairie Organic Layer Farms Ltd. - NW 18-4-6E (W1/2) and SW 18-4-6E (W1/2), RM of Hanover Spread Fields - 4-6E (Prairie Organic Layer Farms and Ritzco Farms)



LEGEND: A = Spread Fields (Agreement) O = Spread Fields (Owned) D = Dwelling C = Church Y = Yard (no dwelling LO = Livestock Operation

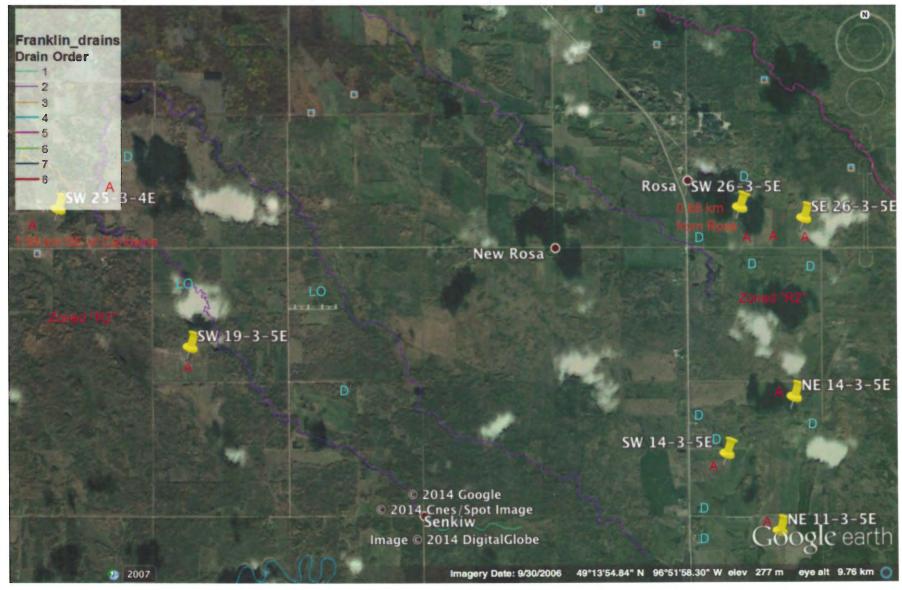
Spread Field - NW 12-4-6E (Ritzco Farms)



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

Prairie Organic Layer Farms Ltd.

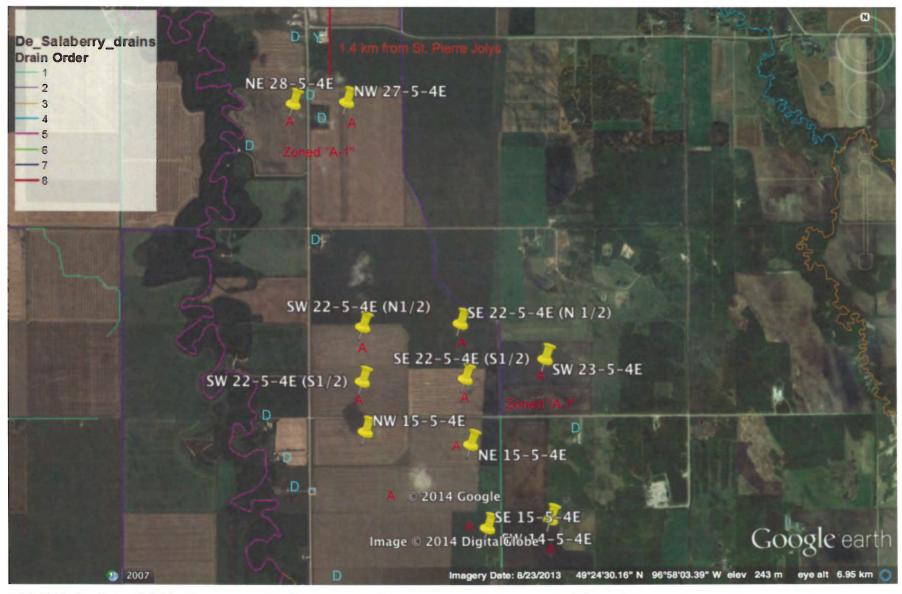
Spread Fields - 3-4E and 3-5E (Robert Budey and Glen Chubey)



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

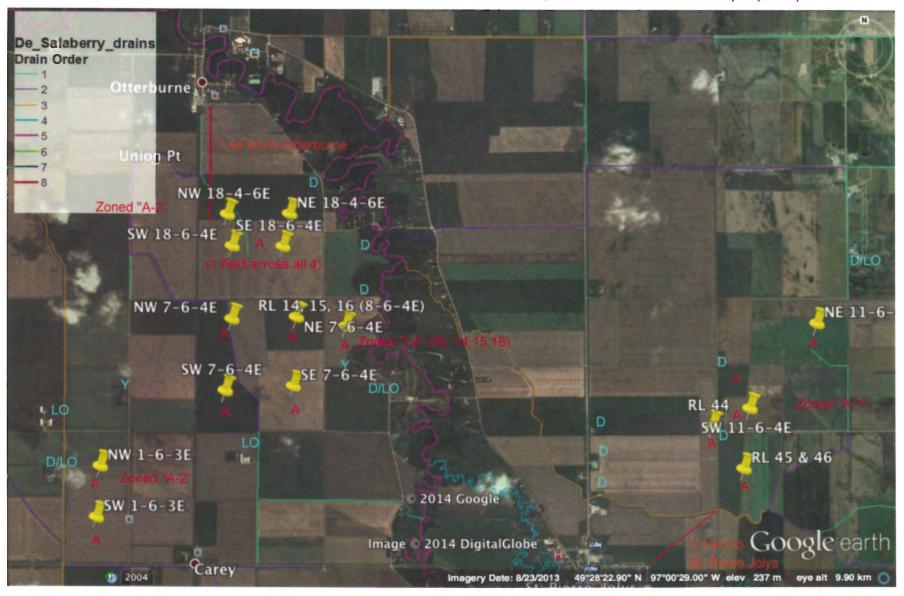
Prairie Organic Layer Farms Ltd.

Spread Field Map - 5-4E (Al Robidoux and Rene Peloquin)



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

Spread Field Maps - 6-3E and 6-4E - Al Robidoux, Martin Reutter and Rene Peloquin (RL 44)



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



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



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

APPENDIX 13

# An Analysis of the Costs to Transport Solid Poultry Manure in Manitoba

Prairie Organic Layer Farms
Pansy, MB

### Prepared for:



DGH Engineering Ltd. 12 Aviation Boulevard St. Andrews, Manitoba R1A 3N5

Contact: Charles Liu, P.Eng.

August 25, 2014



Certificate of Authorization

DGH Engineering Ltd.

No. 540

Date: aug. 25/14



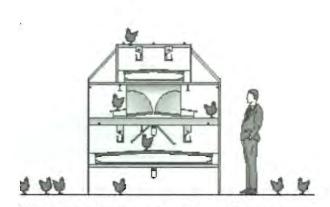
#### 1. Introduction

DGH Engineering Ltd. was retained by Penfor Construction Ltd. to conduct an economic evaluation of transporting solid manure generated from the proposed Prairie Organic Layer Farms to manure spreading lands potentially available within 40 miles of the farm site. Manitoba Conservation has a policy in place concerning the transportation of manure that is based on the assumption that transportation costs are economically viable at distances of up to 10 miles. Beyond this distance Manitoba Conservation believes that manure hauling is not likely sustainable. This policy may be a reasonable policy for liquid manure but should not be directly transferred to dry, solid forms of manure. The nutrient value per tonne of dry solid manure can support longer haul distances at the same level of economic feasibility as the following discussion will show.

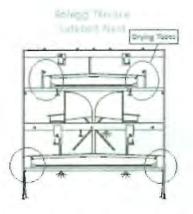
Information on manure characteristics, transportation methods and costs were collected and reviewed. Monetary values of manure nutrients were calculated. Comparisons of the cost of transportation of liquid manure and solid manure were conducted.

#### 2. Expected manure characteristics from proposed Prairie Organic Layer Farms

The owner of Prairie Organic Farms also owns and operates a layer farm, Swan Creek Layer Farms (SCLF), in Ontario. The proposed Prairie Organic Layer Farms (POL) is to be operated in the same way as the existing Swan Creek Layer Farms. The manure handling method in POL is also to be the same as the existing system in SCLF. A Bolegg Terrace Aviary (BTA) system is to be installed in the proposed new barns. BTA is equipped with drying tubes to reduce the moisture of manure (Sketch 1a and 1b).



Sketch 1a. BTA system Floor Housing



Sketch 1b. BTA system Drying Tubes

A manure sample generated from the BTA at SCLF was collected in April 2014. The test report from SGS Agri-Food Laboratories is attached and the results shown in Table 1.

#### 3. Comparison of Nutrient Value of Manure of Major Livestock Animals

To compare BTA manure with typical poultry manure, Manitoba Guidelines for Poultry Producers was reviewed. MAFRI was contacted for clarification of the poultry manure data in the Guidelines. MAFRI has noted questionable data in the Guidelines and MAFRI is planning to revise the Guidelines. Based on this, the Manure Guidelines were not referenced in this evaluation and alternate sources were used.

An American laboratory experienced in manure analysis, Agri Analysis, conducted a broad study of the nutrient value of manure as fertilizer. They tested 129, 55 and 22 manure samples from farms housing cattle, poultry and hogs, respectively. The published results showed that poultry manure is far richer in nutrients than hog and cattle manure for the three main nutrients: N, P and K. This richness is primarily due to the low moisture content in poultry manure.

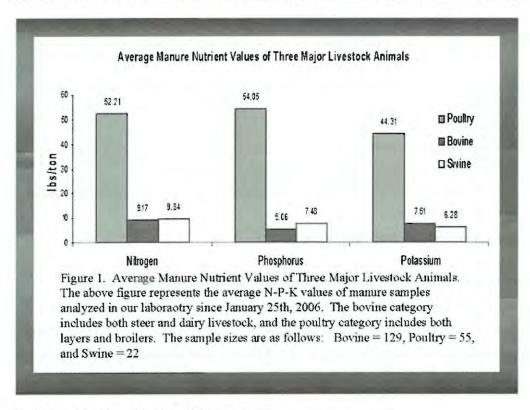


Figure 1. Nutrient Value of Manure (Source: www.agrianalysis.com)

The phosphorus and potassium represented in the Figure are in the form of P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O, respectively.

It is apparent that due to the much higher nutrient value per tonne of poultry manure it is more feasible to transport poultry nutrients from one region to another than manure from other livestock species. For convenience, the units in Figure 1 were converted to metric units and are shown in Table 1.

**Table 1. Manure Nutrient in Metric Units** 

	N (kg/tonne)	P <sub>2</sub> O <sub>5</sub> (kg/tonne)	K <sub>2</sub> O (kg/tonne)	Samples tested	
Bovine Manure*	4.58	2.53	3.75	129	
Swine Manure*	4.92	3.74	3.14	22	
Poultry Manure*	26.10	27.02	22.15	55	
BTA Layer Manure <sup>Ψ</sup>	29.60	16.72	11.45	1	

<sup>\*</sup>converted from original imperial unit data.

Based on 2013 fertilizer prices, the monetary values of typical manure nutrients and BTA manure nutrients are listed in Table 2. The dollar value of BTA manure compares well with typical poultry manure and is approximately 5 to 6 times of that of liquid swine manure and liquid bovine manure.

**Table 2. Nutrient Monetary Value of Manure** 

Fertilizer	N	P2O5	N+P value
Market Price (\$/kg)†	1.17	1.15	
Bovine Manure (\$/tonne)*	5.36	2.91	8.27
Swine manure (\$/tonne)*	5.76	4.30	10.06
Poultry Manure (\$/tonne)*	30.54	31.07	61.61
BTA Layer Manure (\$/tonne) *	34.59	19.17	53.76

<sup>†</sup> Understanding and Applying Real World Experiences Associated with Separated Hog Solids Management to Manitoba, Appendix K, P67 <a href="http://www.manure.mb.ca/projects/pdfs/Final%20Report%20(website)%202012-06%20Agra-Gold%20Consulting%20Separated%20hog%20solids%20management.pdf">http://www.manure.mb.ca/projects/pdfs/Final%20Report%20(website)%202012-06%20Agra-Gold%20Consulting%20Separated%20hog%20solids%20management.pdf</a>

#### 4. Transportation of solid manure and liquid manure

There is a significant difference between liquid manure transportation and solid manure transportation. To transport liquid manure, a tanker is needed. To transport solid manure a dump truck is suitable for small quantities and short distances or a large box, walking floor trailer can be used for large amounts and long distances. This difference in equipment contributes to the difference in transportation costs.

Source: SGS Agri-Food Laboratories report, 2014-04-07

<sup>\*</sup> based the data in Table 1.

<sup>♥</sup> based on SGS Agri-Food Laboratories report, 2014-04-07

Local contractors were consulted for the prices of solid and liquid manure transportation. For liquid manure transportation up to 10 miles with a 8000 gallon tanker, the charge rate is \$120.00 per round trip. For solid manure transportation to 40 miles with a 25-ton trailer, the charge rate is \$300 per round trip. It is acknowledged that the typical haul distance proposed by POL is 25 miles. This evaluation was conducted for a dry manure haul distance of up to 40 miles to offer a conservative assessment and potentially to afford future flexibility for this type of operation.

For large scale livestock operations, to transport manure by their own vehicles may be more economical. This is especially true for solid manure transportation. Some poultry producers we consulted use 140 to 150 cubic yard (107 m³ to 115m³) walking floor trailers for manure transportation. These trailers are widely available and are used to transport bulk solids such as wood shavings and chopped forages. Since manure transportation can share the trailer with other tasks, the ownership depreciation cost can be reduced, and consequently the unit cost of manure transportation can be significantly reduced.

The density of liquid manure is approximately 4.546 tonne/1000 gallons. The transportation cost of a 8000 gallon load of liquid swine manure for 10 miles is \$6.60 per tonne.

The cost to transport a 25 ton load of BTA layer manure 40 miles is \$13.23 per tonne.

Table 3. Comparison of Nutrient Retrieval Costs of 10-Mile Liquid Manure and 40-Mile Solid Manure Transportation

	J.	II .		
	N+P Value (\$/tonne)	Nutrient Retrieval Cost  \$ Nutrient Value  \$ Manure Hauling Cost		
Liquid Swine Manure* 10 miles	10.06	1.54		
BTA Layer Manure* 40 miles	53.76	4.00		

<sup>\*</sup>copied from Table 2.

#### 5. Discussions and Conclusions

Column I in Table 3 indicates that the nutrient value (nitrogen and phosphorus) of the solid poultry BTA manure from the POL operation can be expected to be five times that of liquid hog manure. This fact alone indicates that it is economically feasible to transport solid poultry manure much further than liquid hog manure.

In Column II of Table 3, the cost to transport manure is presented as a ratio relative to the cost of chemical fertilizer nutrients. When liquid hog manure is transported 10 miles at a cost of \$6.60 per tonne, the value of the nitrogen (N) and phosphorus (P) is approximately 1.5 times the cost to haul the manure. In other words, every \$ spent to haul the manure provides \$1.50 of chemical fertilizer nutrients.

When the BTA layer manure from Prairie Organic Layer is transported 40 miles, the value of the N and P is approximately four times the cost of the equivalent amount of chemical fertilizer (i.e. \$1 for manure hauling delivers \$4 chemical fertilizer nutrients). In fact, transportation of dry BTA poultry manure in excess of 100 miles can probably offer the same nutrient retrieval cost as transportation liquid pig manure 10 miles.

The results of this study clearly demonstrate that the manure from the proposed Prairie Organic Layer operation can be sustainably transported a distance significantly further than the 10 mile limit that is presently the policy of Manitoba Conservation. The proposed haul distances of up to 40 miles for dry the dry BTA poultry manure is even more affordable than hauling liquid swine manure 10 miles. Even at these hauling costs, farmers have ample incentive to use manure since they are receiving nutrients at a much lower cost than the cost of the commercial fertilizer replaced and also provides valuable organic matter as fringe benefit.



## AGRIFOOD LABORATORIES

1 503 byperol Rood North

Great No. MIH 619

£ 548 837 mmu

- MOD 185-7175

1 337 1242

a agreniolation dispraint

Report # 486353

## Manure Analytical Report

Page 1 of 1

Email

Swan Creek Layer Farms - Jim Swanston -Scratch & Belts Manure 7565 Fourth Line RR 2 Elora, ON N0B 1S0

Cash Received for Tests: 42.50 HST Received (#R124245911): 5.53

Date Received: Apr-03-2014 Date Reported: Apr-07-2014

Fax: 519-993-6460

Email: jimswanston1@gmail.com

Lab ID: 12847802 Sample ID: 1 - Manure From Scratch & Type: manure-chicken (layers)

Laboratory Results		Reduction in Fertlizer Application	(kg/tonne)	(lb/ton)
Dry Matter % pH Nitrogen (%) Ammonia - N (ppm) Phosphorus (%) Potassium (%)	57.38 6.70 2.96 1257.83 0.73 0.95	Nitrogen - Incorporated 1 Day Nitrogen - Incorporated 3 Days Nitrogen - Incorporated 5 Days Nitrogen - Not Incorporated Nitrogen - Injected Nitrogen - Early Fall Applied Nitrogen - Late Fall Applied Phosphate Potash	9.43 9.31 9.18 8.92 10.93 11.53 6.70 10.30	18.92 18.67 18.42 17.89 21.94 23.12 13.44 20.66

Application Rate (ton/ac)	Nitrogen Incorporated 1 Day	Nitrogen Incorporated 3 Days	Nitrogen Incorporated 5 Days	Nitrogen  Not Incorporate	Injected	d Ea	litrogen arly Fall Applied	Nitrogen Late Fall Applied	Phosphate	Potash
1	18.9	18.7	18.4	17.9			21.9	23.1	13.4	20.7
2 3	37.8	37.3	36.8	35.8			43.9	46.2	26.9	41.3
3	56.8	56.0	55.3	53.7			65.8	69.4	40.3	62.0
4	75.7	74.7	73.7	71.6			87.8	92.5	53.8	82.6
4 5	94.6	93.4	92.1	89.5			109.7	115.6	67.2	103.3
/alue of M	anure (\$/ton)		N	P2O5	K20	Total				
Incorporated	1 Day		10.97	9.68	10.12	30.77				
Incorporated			10.83	9.68	10.12	30.63				
Incorporated	5 Days		10.68	9.68	10.12	30.48				
Not Incorpor	ated		10.38	9.68	10.12	30.18				
Injected										
Early Fall Ap	plied		12.73	9.68	10.12	32.53				
Late Fall App	olied		13.41	9.68	10.12	33.21				

# Appendix 14 – Truck Haul Routes and Access Points Map



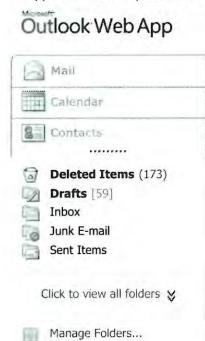
Truck Haul and Access Routes Map

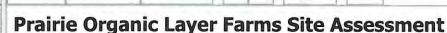
Truck Haul Route

NW 18-4-6E (W 1/2 and E 1/2 W 200F OF N 400F) and SW 18-4-6E (W 1/2) RM of Hanover

Sign out

**Options** 





Friesen, Chris (CWS) [Chris.Friesen@gov.mb.ca]

Entire Mailbox

Forward

Sent: Monday, July 21, 2014 8:56 AM

Reply All

To: Will Redekop

Type here to search

William

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

**J**ank

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

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

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

Manitoba Conservation Data Centre; Wildlife Branch, Manitoba Conservation and Water Stewardship.

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

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

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

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

----Original Message----

From:

Sent: July-14-14 10:57 AM To: Friesen, Chris (CWS) Subject: WWW Form Submission

Below is the result of your feedback form. It was submitted by WWW Information Request () on Monday, July 14, 2014 at 10:57:19

DocumentID: Manitoba Conservation

Project Title: Prairie Organic Layer Farms Site Assessment

Date Needed: 2014/07/28

Name: William Redekop

Company/Organization: Penfor Construction LP

Address: 10 Penner Drive

City: Blumenort

Province/State: Manitoba

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 to the Technical Review Committee.

Information Requested: The presence of rare species.

Format Requested: If possible, I would prefer to receive the report as a Microsoft Word Doc sent by e-mail. Thank you.

Location: RM of Hanover:

Land parcel is composed of two adjacent plots: NW 18-4-6E (W 1/2) and SW 18-4-6E (W 1/2)

action: Submit

Connected to Microsoft Exchange