#### 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 <u>Part 7 of *The Planning Act*</u>. 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 <u>Technical Review Committee Regulation</u> 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.

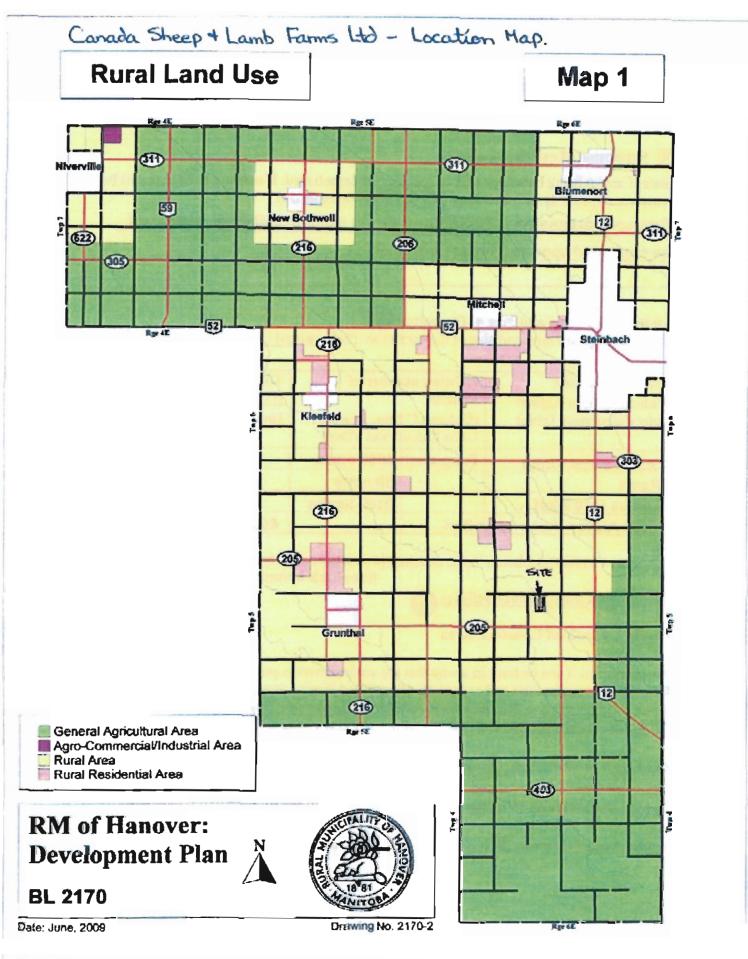
For help with mapping, contact your <u>Community and Regional Planning Regional</u> Office.

For additional help, contact the Technical Review Coordination Unit.

	2
3.0 Description of Livestock Operation	
Operation legal name, if other than the owner's name:	
Canada Sheep & Lamb Farms Ltd	
Operation location (project site): <u>E<sup>1</sup>/2 NW21-5-6E</u>	
Rural Municipality (RM) of Hanover	
Legal description: section, township, range or river lot(s) E <sup>1/2</sup> NW21-5-6E	
Manitoba Premises Identification Number: MB 1002935	-
Municipal tax roll number(s): 0258720.000	

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

X Location Map attached



Revised To:

4.0 Nature of Project 厉

New operation

#### X Expansion of existing operation

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

Proposed expansion will continue utilizing existing buildings, which will

#### be expanded upon to increase capacity.

#### 5.0 Proposed Type and Size of Operation State the proposed type and size of the operation. (See <u>Animal Units Calculation Table</u>.)

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)
Sheep Ewes (only)	Proposed: 4000 ewes	
Rams	50 rams	
Lambs (<10 wks)	2150 lambs	
Total AU for sheep op	etation	658 animal units (total)

X Animal Units Calculation Table attached (see alternate method used to include all livestock inventories)

6.0 Animal Confinement Facilities 7

#### **Outdoor Confined Livestock Area**

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

Confined Livestock Area: 🕅 outdoor seasonal feeding area 🔲 feedlot 🔲 not applicable

#### Indoor Barn/Animal Housing

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

Sheep/Operation Type	Storage Type	Volatilization	Animal Numbers	Weight In b	Weight Out	Ave Weight B	Days on Feed	Cycles per Year	R Fer Sheep Place kg/yr	N Excrated Per Flock kglyr	Adjunted for Loss N kg/Yr	N Excreted per Flock adjusted for Loss ib/flock/vr	P205 Excrated Per Flock
Ewes	Field Storage	40%	4000	120	170	145	365	1	10.80	43204	-	57159	34084
Replacement Ewes	Field Storage	40%	0	45	80	63	210	1	2.68	0		0	0
Rams	Field Storage	40%	55	100	200	150	365	1	11.17	615		813	485
Lambs	Field Storage	40%	2150	8	45	27	365*	1	1.97	4244	2546	5615	3343
Ewes, plus essocilivestock	Field Storage	40%	0	na	na	na	na	đ	13.09	0	0	0	0
Feeder	Field Storage	40%	0	45	100	73	365	-	5.40	0	0	0	0

\*Total N Excreted/yr = 48063 kg/yr

\*\*Lambs are generally weaned at 50 days, and and finished on feed to market within about 150 days.

### **Animal Units Calculation Table**

A	8	Ç	D	3	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 associate	d livestock		2	-	
	Mature cows (lactating and dry)			1.35	-	
	Heifers (0 to 3 months)			0.16	-	a services in
Dairy 1	Heifers (4 to 13 months)			0.41	-	
	Heifers (> 13 months)			0.87	-	
	Bulls			1.35		
	Veal calves			0.13	•	
	Beef cows including associated livestock		and the second	1.25	-	
<b>D</b>	Backgrounder			0.5	-	
Beel	Summer pasture / replacement hellers			0.625	-	
	Feeder cattle			0.769	-	
	Sows - farrow to finish (234-254 (bs)			1.25	-	
	Sows - farrow to weaning (up to 11 lbs)			0.25	-	
01	Sows - farrow to nursery (51 lbs)			0.313	-	
Pigs	Boars (artificial insemination units)		72-11	0.2	-	
	Weanlings, Nursery (11-51 lbs)			0.033		
	Growers / Finishers (51-249 lbs)			0.143	-	
	Broilers			0.005	•	
	Roesters			0.01	-	
Chickens	Layers			0.0083	-	
CRICKERS	Pullets			0.0033	-	
	Broiler breeder pullets			0.0033	-	
	Broiler breeder hens			0.01	-	
	Brolers			0.01	-	
Turkeys	Heavy Toms			0.02	-	
	Heavy Hens			0.01	-	
Horses	Mares			1.333	-	
Sheep	Ewes		4,000	0.2	800.00	
oneep	Feeder lambs		CHEMICAN STATE	0.063	-	
Other I hundreds	Type:				-	
Other Livestock	Туре:				-	
				Total AUs	\$00.00	

#### Footnotes:

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

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

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

#### Alternate estimate of Animal Units (AU) for the livestock inventories:

1 AU =73 kg N produced/year

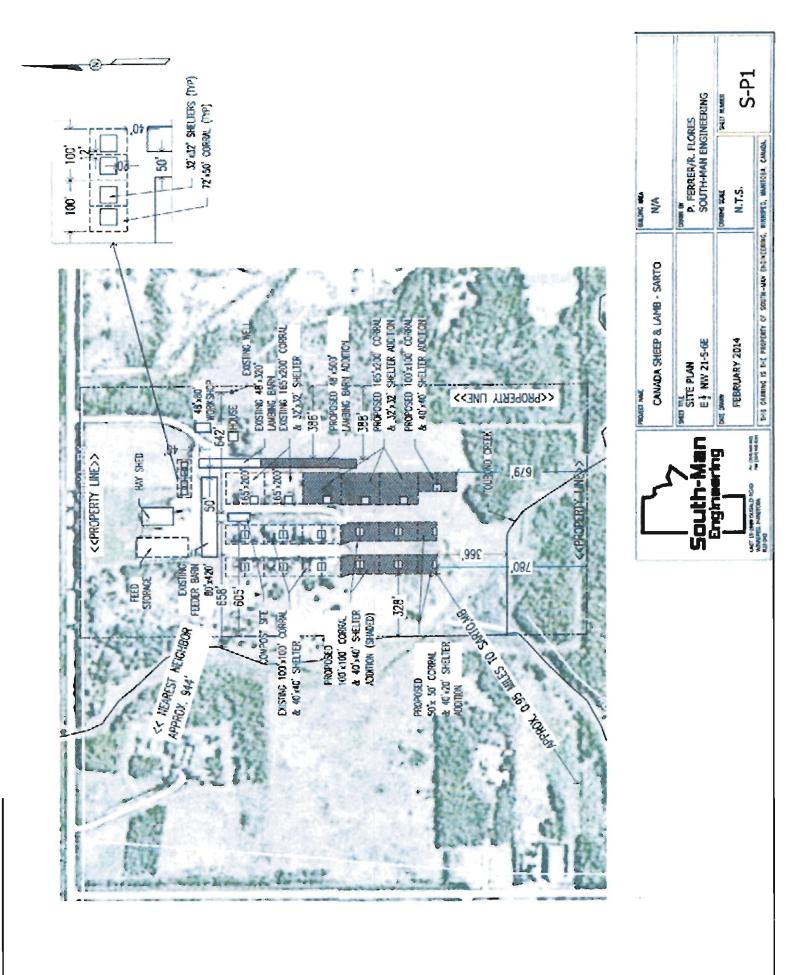
#### Estimated N production (cf farm excretion worksheet attached): 48 063 kg/yr

#### # AU = 48 063 ÷ 73 = 658 AU

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.

X Project Site Plan attached



#### 7.0 Environmental Farm Planning

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

Do you have	an <u>Environmenta</u>	l Farm Plan	🗌 yes 🛛 🗙	) no
If so, is it cut	rrent (completed wi	ithin past 5 ye	ars) 🗌 yes	🗌 no

#### 8.0 Water

#### Project Sites Unsultable for Development

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

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:



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 ML1 website.



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	X existing well
	nver	🗌 lake
	dugout (dimension	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.

#### LOCATION: NW21-5-6E

Well\_PID: 29502 P SMITH Owner: **Driller:** Friesen Drillers Ltd. Well Name: Well Use: PRODUCTION Water Use: Domestic, Livestock UTMX: 664655.888 UTMY: 5475552.53 Accuracy XY: UNKNOWN UTMZ: Accuracy 2: Date Completed: 1977 Apr 11

#### WELL LOG

From To Log (ft.) (ft.) 0 10.0 SAND 10.0 32.0 CLAY- BLUE 32.0 116.9 TILL- FIRM, BLUE 116.9 200.9 SILT- SMALL LAYERS OF CLAY 200.9 208.9 TILL- BOULDERY 208.9 259.8 LIMESTONE

#### WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 0 209.9 casing 4.25 INSERT BLACK IRON 209.9 259.8 open hole

Top of Casing: ft. below ground

# PUMPING TEST Date: Pumping Rate: 15.0 lmp. gallons/minute Water level before pumping: 22.0 ft. below ground Pumping level at end of test: 25.0 ft. below ground Test duration: hours, minutes Water temperature: ?? degrees F

#### Source Water Analysis Reports

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

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

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

If yes, identify: Name of the surface water feature: \_\_\_\_\_\_

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

#### Water Requirements

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

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

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



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

Maximum daily use: 15 540 X imperial gallons or litres Maximum annual use: 5 672 100 acre-feet or cubic decameters

X Water Requirement Calculation Table attached

#### Groundwater (Contamination Risk Protection)

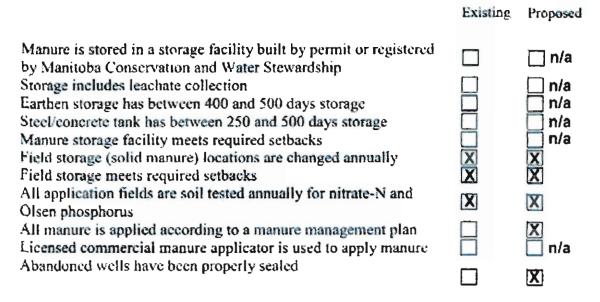
Improper storage and handling of manure or mortalities increases the risk of contaminating groundwater. Beneficial management practices (BMP), mitigation measures and requirements for the permit process reduce this risk. Soil testing, manure management planning and proper engineering, along with construction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

## Water Requirement Calculation Table

Livestock	Number	IG/day <del>per</del> animal in winter	IG/day per animal in summer	IG/day (Imperial gations per day)	
Beef/Dairy/Bison	ALM ST 12 P	Concerning of the second			For beet, pairy, bison and norse
Feeder/heifer/steer (600 lb.)		5	9	-	enterprises:
Feeder (900 lb.)		7	12	· ·	Use summer numbers if
Feeder (1250 lb.)		10	15	· · · · ·	appropriate for the operation.
Cow/call pair	6.75	12	15	· · ·	Otherwise base projections on
Dry cow	dist.	10	12		winter values.
Milking cow	1 362	25	30	-	Always use the greater of the
Bison	Sec.	8	10		two values.
Horses	Contradiction of		A State Inchastion		
Horses	- Call and	8	11		
Hogs		AND TRANSPORT			
Sow (Farrow/wean)	Sec.	6.	5	-	
Dry Sow/Boar		4			
Feeder		3			
Nursery (33 lb.)	PAL NO	2			
Chickens		DISPECTION STATE	THE SHIELD HELD	A CONTRACTOR OF THE OWNER.	
Broilers		0.0	35	-	
Roasters/Pullets		0.0	)4		
Layers		0.0	55	· ·	
Breeders	L. Mary	0.0	)7		
Turkeys					
Turkey Growers		0.1	3		
Turkey Heavies	1.11	0.1	6	-	
Sheep/Goats		and the second			
Sheep/Goats	50	2		100	Enter this number on page
Ewes/Does	4,000	3		12,000	7 of Application Form.
Lambs/Kids (90 lb.)	2150*	1.0	6	3440	Por Application round
*Worsheet	does not	TOTAL	IG/day)	-12,100 1	
allow to ent Other consumption values:	ter#lambs			15540 lg	al
Normal household consumption:	[	Ui	nit Conversio	ns	
40-55 IG/day per person or (180-250 l/day/person)		Total per day			
		12,100	4,416,500	IG	Characterization and the second straining the second
Hydrant flow:		55,007	-20,077,409		Enter this number on page
10 imperial GPM (45 l/min)		0.055	-29	cubic decametres (dam)	7 of Application Form.

Correct values: 15,540 igal/day ---- 5,672,100 igāl/yr

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:



#### Other:

Manure and straw pack material will be field stored throughout the year and spread in the fall.

#### **Building in Flood Areas**

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

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

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

The proposed site:

is 🔲 is not 🗙

located in a Designated Flood Area: <u>Red River Valley Designated Flood Area</u> or <u>Lower</u> <u>Red River Designated Flood Area</u> 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):
 Seine River

 Name of sub-watershed(s):
 Tourond Creek

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

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

#### 9.0 Manure

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

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

#### Manure Type

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

What type(s) of manure will be generat	ed?	
X 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>)

	11
liquid volume:	solid weight: 3 800 tons/yr
n/a Manure Production Calculator Table atta (no provision for sheep operations in worksheet)	ched (estimated from historical manure management with current inventories)
Manure Storage Type and Capacity	
The type of storage system used will affect t storage facility or field storage area.	he capacity requirements for the manure
What type of manure storage facility will b	
under-barn concrete <u>earthen manur</u>	
steel tank(s) <b>X</b> field storage	molehill
Provide the dimensions of the existing and/o applicable. (See <u>Existing and Proposed Ma</u>	
Existing and Proposed Manure Storage I	acility Dimensions Table attached n/a vs. field storage
•	gnificant sources of livestock odours. The use n reduce this, particularly for neighbours in the
What odour control measures are you planni Manure storage cover:	] no (n/a to confined livestock areas
Shelterbelt planting: 🗌 yes 🗌 no	X existing shelterbelt
Other measures (specify): Bushes of mathematical bushes of mathemati	ature trees separate the operation from eighbours.
expansion, or construction of a manure stor number of animal units for pigs, unless the	must not issue a permit for the modification, age facility accommodating an increase in the manure is treated using anacrobic digestion or that is similar to or better than anaerobic on and Water Stewardship.
Does your proposal include anaerobic digest treatment for manure?	ion or another environmentally sound
🗌 yes 🗌 no 🛛 🕅	not applicable

			Daily H	<b>Delty Hanure Production</b>		a second			Treed the sume Valuence
Autor Type	Artificial Sub-type (S)	References (C)	Manue Type (D)	Default Manure Preduction (th'Ianimal/day) (tt)	Operation Manure Froduction <sup>1</sup> (R <sup>1</sup> ianimalidity) [F]	Production Period (Deve) (0)	Number of Animals <sup>3</sup> (Capacity) (H)	Volume (N <sup>*</sup> ) (FXOXH)	and the second second second
	Free Stat		Semi-Solid <sup>®</sup> Solid	3.5					0,0
			Liquid	3.6					0,0
Binds Bunklui Alimi		EPCs (w Date	Semi-Solid	3.6				•	0.0
incentech)	Tie Stall	1995	Solid	3.6					
			Linuid	3.6					0/0
	LOOSE MCURING		Solid	0.6				•	
	Minsing Partian Manune and Vicaehwaler		Liquid	0.5					
1	Seef com individing associated waskeek		Said	1.2				•	
C	Beckgrounder (200 day)	gg 117, FPGa for	Solid	0.73					
	Gammar pasturo / regiscement heifers	Maga 1996	Solid	0.85					
	Feder cettle		Salid	1.1					
8	Sows - farrow (2 finish (234 - 254 lbs)		Liquid	2.3					0.0
	Save - farrow (2 mbm (up to 11 ths)	MAFRI WELSTO,	Liquid	0.6					0.0
No.	Sows - farrers 18 flureary (01 be)	FPCs for Pigs	Liquid	•					0.0
	Weamings, Nursery (11 - 51 Ibs)	2002	Liquid	0,1					0.0
	Grower / Finisher (2) = 249 (bs)		Liquid	0.25					0.0
				Yearly Menure Production	nolion		-	Total Manipus	Total Manura Volume
Animal Type	Type of Operation		Default Way	Default Manure Production (M <sup>3</sup> )yoarthird space)	Operation Manure Production 1 (b) hearbird scoool	Production Ferlad 2 (Days)	Number of Birds <sup>3</sup> (Capacity)		for Semi-Solid and Liquid Manure (Imp Gal)
	Birdining - Rock &			123					
	Broller breader hereal			2.3					
	Eroller breeder pullete <sup>6</sup>			0.99					
	Roesters - foor *			1.16					
Christian	<u> (gyors – coge 5</u>	Edda for Destroy		2.20					0.0
	Dynes - floor	2000	Ē	1.00					
	Laters - solid pack "								
	Pullot = Cege 4			12.0					0.0
	Pullets - floor "			6.75					
	old pack								
		Teble 3, pg 05,		Z 83					
- Antonio		PGs for Poultry		R					
	biency hers	0002		3.32					and the second s

Siting of a manure storage facility in accordance with all negulaments of the Unestock Monure and Monsolinies Management Regulation (M.R. 42/98) is the espendial liny of the operator.

# Instructions and feotoolog:

ENTER to number of days where a manue produced. For eartheth manue storage facilities the minimum storage requirement in 400 days. For special concrete the minimum vectorage requirement to 250 ENTER he resource production estimate the your operation. Hits estimate is averable, use the isolatit value provided in colum E. Railerances for default daily and yearly manue production are pravided in columit C. <sup>b</sup> EMTER Fis total mumber of adminis or birds that the operation can trots (e.g. barn or teestick capacity).

\* Milking opens makeletes all factuating and eff opena,

<sup>a</sup> Default manue prestaction estimates for sens-solid and liquid delity manure include manure and wasteware from the million partoux. \*2 incines of wood sharings or 4 incitotion steep puscuper floor. Manure and intercembored from hum at 25% modulus content, with a downy of 20 linf

r 2 inches si vrood shavings or é inchet of étére puscupen floor. Manure and inter removed from hum af 20% monture content, with a dowing af 20 i "Dro-third litter floor, broachinds Midled Broar, Manure and litter removed from burn at 40% moletum content, edits a density of 20 is "Manure schervedfreim Baam AJ Ross montultre content with a density of 50 th/ré

ិកចំណើម៉ឺ លាចនាន់លើសទេ២អំហែន្ន ដែលនេះ ស្រាយី ភូចនាំដំណីសន្ត ស្រុបភូជ័ម ១៩.១វេនាសនេ លើ សារវាមួយកានានេះ សេវេនាលេស

This spread sheet does not account for sheep. Based on historial manure handling, the proponent estimates annual manure production (feces & straw) to 3800 tons annually.

If yes, please describe
Manure Application Method
The Livestock Manure and Mortalities Management Regulation requires the registration of annual manure management plans for new or expanding operations with 300 Animal Units or more.
Does the operation currently file an annual Manure Management Plan with Manitoba Conservation and Water Stewardship? (For operations with 300 Animal Units or more, only)
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:
The Livestock Manure and Mortalities Management Regulation prohibits the application of manure from November 10 of one year to April 10 of the following year (winter application).
Time of year for application: Spring Summer X fall
The Livestock Manure and Mortalities Management Regulation puts restrictions on fall application of manure in the Red River Valley Special Management Area.
The proposed spread fields: are are not in the <b>Red River Valley Special Management Area</b> .
Land Available for Manure Application ? The land available for manure application includes all suitable land (owned, leased or under agreement) that is available to the operation for manure application.
Under the Livestock Manure and Mortalities Management Regulation and the Nutrient Management Regulation, application of nutrients is not permitted on Agriculture Capability Class 6, 7 and unimproved organic soils (Nutrient Management Zone 4) and within Nutrient Buffer Zones.

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

Nutrients cannot be applied within the Nutrient Buffer Zones as outlined in the Nutrient Management Regulation (62/2008) and illustrated in the <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?

no

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

Total suitable area available for manure application

1 432 acres

(an additional 230 acres is available through spreading agreements even though these fields have not

been soil sampled yet) Copies of soil test reports that are no more than 12 months old must also be included with this submission.

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

"Certain Areas" are defined by the <u>Livestock Manure and Mortalities Management</u> <u>Regulation</u> (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).

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MANURE APPLICATION FIELD CHARACTERISTICS TABLE

-	20	19	18	17	16	15	14	13	12	11	10	9	8	7	01	IJ	4	3	2		Field	I
	A DESCRIPTION OF	the second second second				Special and a start of the	N1/2 NE27-5-5E	S1/2 NE27-5-5E	SE7-6-7E	RL 544 PAG	SE27-5-6E	NE16-5-6E	SW21-5-6E	SW33-5-7E	SE10-5-6E	SE9-5-6E	SW27-5-6E	NW28-5-6E	S1/2 SE28-5-6E	N1/2 SE28-5-6E	Legal Description	
	ALC: NO ALC: N	and the second	and the second se			States and the second	Hanover	Hanover	La Broquerie	Ritchol	Hanover	Hanover	Hanover	La Broquerie	Hanover	Hanover	Hanover	Hanover	Hanover	Hanover	Rural Municipality	
	Sales -			1			A	A	A	A	A	A	A	A	A	A	-	0	0	0	O/L/A	I
			1		1		80	80	160	250	78	160	120	150	160	80	95	160	08	80	Total Acreage	
Total Net Acreage for Manure Application:		and the second se	State of Street of Street	A CONTRACTOR OF THE OWNER	an indication of the state of the		Prop. line/surface water	Setbacks, Including features														
1432		and a state of the		1- 1	Section and	A COLORADO	50	55	160	240	50	155	90	145	80	70	75	117	75	75	Net Acreage for Manure Application	
	And a second second	and the second s		A CONTRACTOR OF THE OWNER			3M5W	3M5M	4DP3M	2W1	3M5W	3M5W	3M5W	3M2MP	3M5M	3M	3M5W	5W (6W excluded)	3M4M	3M4M	Agriculture Capability Class and Subclass	
	and the second	202.00		100 million (100 m			115	38	5	164	10	17	30	53	40	14	61	103	32	108	Soll Nitrate (Ib/acre) 0-24	
		and the second s	a produce and	and the second s			40	19	15	32	15	9	5	37	33	21	44	11	56	55	Soll Phosphorus (ppm Olsen P) 0-6 Inches	
A PART	AND IN COLOR						Rural - BL 2170	Rural - BL 2170	Ag 1 - BL 20-2011	BL 2/10	Rural - BL 2170	Rural - BL 2170	Rural - BL 2170	Ag 1 - BL 20-2011	Rural - BL 2170	Rural - BL 2170	Rural - BL 2170	Rural - 8L 2170	Rural - BL 2170	Rural - BL 2170	Development Plan Designation	
North The			1 10 1 M				Rural - BL 2171	Rural - BL 2171	RA1 - BL 10-2013	DP BL 2-2010	Rural - BL 2171	Rural - BL 2171	Rurai - BL 2171	RA1 - BL 10-2013	Rural - BL 2171	Zoning						

Identify the Rural Municipality in which the parcel is located. Indicate how the land has been secured for manure application: O -- Own / L -- Lease / A -- Agreement

Enter the total acreage for the parcel.

MOOM TOTAL 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 Enter the net long-term acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimpreved organic soils.

Enter the agriculture capability class and subclass ratings for the acreage available for manure application.

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-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

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

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MANURE APPLICATION FIELD CHARACTERISTICS TABLE
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					a state -		1 2 2 1						NE22-5-7E	NW 12-5-6E	SE17-5-6E	SW33-5-6E	SE32-5-6E	NW21-5-6E	NE21-5-6E	SW28-5-6E	Legal Description	Þ
													La Broquerie	Hanover	Hanover	Hanover	Hanover	Hanover	Hanover	Hanover	Rural Municipality	B
					-	an and							A	A	A	A	A	-	1	L	OILIA	0
					a series and	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Sec. Sec.			160	160	100	80	80	77	160	160	Total Acreage	0
Total Net Acreage for Manure Application:	States and states			and an in the second second		the second second second	State of the state			a secondoration	the manufacture of the last	and the second s	Prop. line/surface water	Prop. line/surface water	Prop. line/surface water	Setbacks, including features	m					
625	State of the second sec	Sec. Sec. 1	and the second	State State of State		No. Concernance		Section and		Section .			90	40	70	75	65	70	70	145	Net Acreage for Manure Application	77
		State of State of State		and the second second	and the second se	and a start in the owner of					Section of the sector of	and an address of	3P(6W excluded)	3M(6W excluded)	2MP3M	3M5W	3M5M	3M5W	3M5W	3M5W	Agriculture Capability Class and Subclass	G
		1		0.2	1.11	15	1.5			and the second	Part			115	1000	ទ	62	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	198	299	Soil Nitrate (ib/acre) 0-24	H
		No. A. Sand	and the second sec	A	And the second second	Sec. Sec.			and the second second		and the second		the particular	189		77	66		101	67	Sell Phosphorus (ppm Olsen P) 0-6 inches	-
	N. S. D. Martin	一 一 一 一	State of the second	ALL DE LES	21-10-6-6	A DECEMBER OF		AND THE PART	and the state	And the second se			Ag 1 - BL 20-2011	Rural - BL 2170	Rural - BL 2170	Rural - 8L 2170	Development Plan Designation	J				
		TATING OF SALES	671 0 10 1073		121 A. L. B. L. B.	ALC: No week		P. C. M. L. C. L.					RA1 - BL 10-2013	Rural - BL 2171	Rural - BL. 2171	Rural - BL 2171	Zoning	*				

Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (Including parish). Identify the Rural Municipality in which the parcel is located.

Indicate how the land has been secured for manure application: O - Own / L - Lease / A - Agreement

Enter the total acreage for the parcel.

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

TODULOT 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.

Provide soil test results for phosphorus ppm Otsen P at 0-6 inch depth. Soil lest results must be no more than 12 months old and must be completed by an accredited soil-Provide soil test results for nitrate-N in Ib/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 Enter the agriculture capability class and subclass ratings for the acreage available for manure application.

**X** 5-Please indicate the Zoning By-law and its by-law number in addition to the zoning for each field Please indicate the Development Plan and its by-law number in addition to the map designation for each field

	-			SC	DIL TI	EST	REPOR	T					N			
Soil Analysis by (http://w Northwood	Agvise Laborator www.agvise.com) : (701) 587-6010 (320) 843-4109	nes	FIELD COUN TWP SECT	PLE ID D NAME NTY	SE 28- SE 28- Home Grass/	05-06 Q11	RANGE	ACRES	0		w					E
Smith Sheep Farm	ITTED FOR:		3111 BOX	9 RD 2 131	AG SOL 7E		N	DU44	26	REF	-	94732 W216		X 4	Ø	sign X
Grunthal, MB			KLEE	FELD,	MB		ROA	ovo								
Date Sampled 05/	/03/2014			25	Date	e Rece	eived 05	/09/2	2014			Date	e Repo	rted	5/9/2	014
Nutrient In	The Soil	Inter	preta	tion	15	t Cro	op Choice	e	2n	d Cro	op Choic	e	31	rd Cr	op Cho	oice
		page 15	n Mei	i Hah		Gras	s/Alfalfa			Corn	Slage		1	So	ybeans	
0-6*	51 lb/ac				1.000	YIEL	D GOAL			YIEL	D GOAL			YIEL	D GOAL	
6-24*	57 lb/ac					4	Tons			14	Tons			40	BU	1
0-24"	108 lb/ac			1 mil	SUG	GESTER	D GUIDELIN	VES	SUG	SESTER	GUIDELIN	IES	500	GESTE	D GUIDE	LINES
NITHE				12		Bro	adcast			Bro	adcast			Bro	adcast	
	the star with	7.12		192	LB/A	CRE	APPLICA	TION	LD/A	CRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
Qisen	55 ppm				N	0	1.	-	N	38			N			
Phosphorus			-	0.2	Pros	0	1.		P205	15	Band (2)	(2) *	P:05	0	1	
Potassium	366 ppm	******				1					-	-			-	E-
Chlorida	and marine			1	K20	0			K20	10	Band (2)	(2) =	K20	0		
0-6*					CI		12-16	1	CI	-			CI			
6-24" Sulfur	42 lb/ac				s	10	Broadc (Trial		s	10	Broadc (Trial		5	10		adcast rial)
					B		1		B		1		B		1	
Ziec	2.23 ppm	******			Zn	0	12.12	1	Zn	0			Zn	0		
Manganese					Fe		1 49 9 5 Y		Fe	1			Fe			2
					Mn		198 2.5		Mn	22			Ma			
Coppar	6.46 ppm		-	-	Cu	2	Broade	100 C	Cu	0			Cu	0	1	
Ragnestum Calcium	Contraction of the local division of the loc			1			(Trial	)						100	-	
Sedium				1900	Ng	-	1	-	Mg	-		-	Mg		-	
				100	Lime		Les a		Lime				Lime		_	-
OrgNatter	3.5 %	D-43043 (334)		1	Soil	HI H	Suffer pH		on Excl	-					pical Ra	
Certamate(CCE)	A 30 moto (m)		-	1.91	-	-	and part		Capacil		% Ca	961	Ntg 9	K K	% Na	% H
0-6- 6-24" Sol. Salls	0.28 mmho/cm 0.18 mmho/cm			1	0-6" 8		1				-			-		

Crop 1: Nany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 40 K20 = 192 AGYISE Broadcast guidelines will build P & K test levels to the high range over several years. Crop 2: \* Caution: Sued Placed Placed Priced Facilizer Can Cause Injury \* Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K20 = 1:6 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Crop 3: Nany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 33 K20 = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

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Soil Analysis b (http://w Northwood	Agvise Laborato ww.agvise.com) : (701) 587-6010 (320) 843-4109	ries	SA FIL CO TV SE	MPLE ID ELD NAME DUNTY	Raymo	05-06 and Q11	RANGE	ACRES	5 O		w	121				E
SUBM Smith Sheep Farm Grunthal, MB	ITTED FOR:		31 B0	OUR OAK A 119 RD 2 DX 131 EEFELD,	AG SOL 7E			0V0	126	REF		9473. W210		X #	0	25.4.2. 376.730
Date Sampled 05,	/03/2014				Dat	e Rece	elved 05	/09/	2014			Dat	e Repo	rted	5/9/2	014
Nutrient In	The Soll	Int	erpre	tation	1	st Cro	op Choic	e	21	nd Cro	op Choic	e	3	rd Ci	op Ch	oice
		1	Line 1	Ked High		Grass	s/Alfalfa			Com	-Silage			Se	ybeans	
0-6" 6-24"	20 lb/ac 12 lb/ac	1			1.0.2.1	YTEL	D GOAL			YTEU	GOAL			YIE	LD GOAL	-
	2210/40			1		4	Tons			14	Tons			4	D BU	
0-24"	32 lb/ac		-		SUG	GESTER	O GUIDELI	NES	SUG	GESTER	GUIDELI	NES	SUG	GEST		ELINES
Altraca				1		Bro	edcest			Bro	adcast			Br	oadcast	
			99		LB/	ACRE	APPLICA	TION	LB/	ACRE	APPLICA	TION	LB/	ACRE	APPL	ICATIO
Olsen	S6 ppm				N	26			N	114	100		N			
Polassium	109 ppm				P205	0	1 m		P205	15	Band (2	x2) *	P205	0		
	191 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 2.2	K:O	60	Broadca		Ky0	86	Broade	-	K20	53	-	deast
nioride					CI	60	broadca	351		80	broade	85C	CI	- 33	EFOR	Ideast
0-6-	22 lb/ac	And the second second		Contraction of the second		-	-		CI					-	-	adcast
6-24" Sultur	42 lb/ac				s	10	Brosdc (Trial		5	10	Broade		s	10		rial)
laran					B			-	8			-	R	-	-	
linx	2.41 ppm				Zn	0	1.00	-	Zn	0	Short N		Zn	0		
ron				1	he		1		Fe				Fe	-	1	
langanese					Ma		1		Mn			-	Mn			-
Copper	0.38 ppm			C Mart			Broade	tast			Contra P	-		-		0
fagnesium	0.3				Cu	2	(Trial		Cu	0			Cu	0		
alcium	23			8	Mg		1		Mg	1			Mg		1	
Fodium				122	Ume		1		Lime			-	Lime			-
Sirg.Hatter	3.9 %							F	on Excl		-	se Sa	turatio	0 (T+	pical R	ingel
Contrate/CCEy					Soil	H B	ulter pH		Capacil	-	% Ca	94	T	6 K	46 Na	96.6
0-6* 6-24*	0.21 mmho/cm 0.15 mmho/cm				0-5* 8 5-34* 8	a state of the sta	1. 1960		14					Í		

Crop 1: Nany crops may respond to a starter application of P & K even on high soll tests. Crop Removal: P205 = 40 K20 = 192 A GVTSE Broadcast guidelines will build P & K test levels to the high range over several years. (Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K20 = 116 A GVTSE Broadcast guidelines will build P & K test levels to the high range over several years. Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 35 K20 = 40 A GVTSE Broadcast guidelines will build P & K test levels to the high range over several years.

		S	OIL T	EST	REPO	RT					N			-
ATC		FIELD ID	SW 28	-05-0	68			ĺ						
Soil Analysis b	y Agvise Laborato			-05-0	6E									
	ww.agvise.com)	COUNTY	Dybac	k					w					E
	: (701) 587-6010	TWP			RANGE						14 3			E
Benson:	(320) 843-4109	SECTION PREV. CRO	P Grass/	QT! Alfalf		ACRES	50				-			
	ITTED FOR:	2 T (0) 1	SUBN	11115	D BY:	DU44	26	)			S			
Smith Sheep Farm		FOUR OAL		UTION	N						9			
		31119 RD BOX 131	27E					REF	* 8	94733	3 BC	X #	0	•
Grunthal, MB		KLEEFELD	, NB		ROA	ovo		LAB	a N	W216	68		81 m	
Date Sampled 05/	/03/2014	<u></u>	Date	e Rece	eived 05	/09/3	2014			Dete	e Repo	rted	5/9/2	014
												NOR DA		
Nutrient In	The Soil	Interpretation	1:	st Cro	p Choic	e	20	d Cro	op Choic	e	3	rd C	rop Ch	oice
	and the second second	Line Med Hig			s/Alfalfa	-	-		-Silage				oybeans	
0-6* 6-24*	83 lb/ac 216 lb/ac				D GOAL	_	-		D GOAL	-	-		LD GOAL	
				4	Tons		1	14	Tons			4	0 80	
0-24"	299 lb/ac		SUG	GESTER	GUIDELI	NES	SUG	GESTER	GUIDELIN	IES	SUG	GEST	ED GUID	ELINES
Nitrate				Bro	adcast			Bro	adcast			80	oadcast	
and the second	Contraction of the second		LB//	CRE	APPLICA	TION	LB//	ACRE	APPLICA	TION	LB/	ACRE	APPL	ICATIO
Olsen	67 ppm		. N	0		1	N	10	20.71		N			
Potassium	541 ppm	******	PIOS	0	17		PzOs	15	Band (2)	x2) *	P:05	0		
Chioride	e entrold		KTO	0			K7O	10	Band (2	×2) •	K20	0		
0-6" 6-24"					1		CI	a Sec.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01	CI	100		
o-ze	300 410/30		5	0	1		s	0	1		5	Ő	34 .	-
loren			8		1		B		1		B	1		
(inc	2.95 ppm		- 20	0	1		Zn	0		3	Zn	0		2.25
ren			Fe		-		Fe	1	-		Fe	-		
tanganese	140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140		Ma				Mn		-		Ma	27	1.70, 20	
Copper	0.58 ppm				Broade	test		1	-					
Ragnesium			Cu	1	(Trial	1000	Cu	a	1		Cu	0	1.5	
steium	1999 (J. 1999)		Ng		P		Mg				Mg	1	1	1
adium	41		Lime		1		Lime		1		Lime	1		1
Bry Matter	18.5 %		-			Carl	on Excl	hapon	96 8.	se 5.	turatio	-	pical Na	inge)
arbenate(CCE)			Soil	<b>H</b>	uffer pH	1	Capaci	-	% Ca	-		6 K	% Na	% F
0-6* 6-24*	0.65 mmho/sm 0.94 mmho/sm	*****	0-6* 7			ĺ								

Crop 1: Hany crops may respond to a starter application of P & K even on high soil tests, Crop Removal: P205 = 40 K20 = 192 & GVISE Broadcast guidelines will build P & K test levels to the high range over several years. Crop 2: \* Coultion: Seed Placed Partition Can Cause Injury \* Hony crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K20 = 166 & GVISE Broadcast guidelines will build P & K (est levels to the high range over several years. Crop 3: Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 35 K20 = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

	_			SOIL T	EST	REPOI	RT					N		-	
	<b>MSE</b>	Ļ	FIELD ID SAMPLE I	NW 28		065			ĺ	10		2			
	y Agvise Laborato	ries	FIELD NA			6E						1			
	ww.agvise.com)		COUNTY	Broes	ky	-			1	N		-			E
	(701) 587-6010 (320) 843-4109		TWP		OTI	RANGE	ACRES								
	()		PREV. CR				nene:		)						
SUBM	ITTED FOR:		FOUR OA				DU44	26			-	S			
			31119 R	27E					REF	<i>a</i> 8	94734	80	X #	0	
Grunthal, MB		,	KLEEFEL	D, NB		ROA	010		LAB	* N	W216	78		here."	
Date Sampled 05	/03/2014			Dat	e Rece	eived OS	/09/:	2014			Date	e Repo	rted	5/9/2	014
Nutrient In	The Soil	Inter	pretation	1	st Cro	op Choic	e	21	d Cro	p Choic	e	31	rd Cr	op Cha	oice
		phan Lo	Hed Ho		Gras	s/Alfalfa			Corn	-Silage			So	ybeans	
0-6- 6-24-	55 lb/ac 48 lb/ac				YTEL	D GOAL			YIELD	GOAL			YTE	D GOAL	
NAMES OF STREET		******		-	4	Tons			14	Tons		-	40	BU	
0-24**	103 lb/ac	172		SUG	GESTER		NES	SUG	GESTED	GUIDELIN	VES	SUG	GESTE	D GUIDE	LINES
Nitrate	×		121 2		Bro	adcast			Broa	adcast			Bro	adcast	-
				LB/	ACRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	11 ppm			11	0			N	43			N	•••		
Petassium	61 ppm	*****		P205	40	Broadc	zast	P205	72	Broadc	ast	P:05	45	Bros	dcast
	a des ense			K2O	122	Broadc	ast	K20	113	Broadc	st	K20	76	Broa	dcast
Chloride	104 lb/pr			CI				CI				CI	-	1	
6-24"					0			5	0	send .	and,	5	0		
Boron	9			B		1		B		1		B		1	
tine	1.10			Zn	0	1		Zn	0			Zn	0		
IREA	Ary ppm			Fe				Fe		-		Fe		1	
Hanganese				Mn	1	1		Ma		1		Ma			
Copper	0.6 ppm			Cu	1	Broadd	ast	Cu	0	-	-	Cu	0		7
Nagnesium					1	(Trial	1)								
Calicium				Mg		1		Mg				Mg			
Sadium				Lime	-			Lime	1			Ume			
Org.Hattes	15.3 %						Cati	on Excl	hanne	% Ba	se Sal	turatio	n (Ty	pical Ra	nge)
Cariconala(CCE)				Soil	pHt B	luffer pH		Capacil		% Ca	96 H		6K	% Na	% H
0-6" 6-24"	8.48 mmho/cm 0.4 mmho/cm			0-6* 4			1			10.02	6.255				2

Crop 1: Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 40 K2D = 192 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Crop 2: Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K2O = 116 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 35 K20 = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

				SO	ILT	EST	REPO	RT					N			
			FIELD ID SAMPLE FIELD N	ID	5W 27-					ĺ						
	ww.agvise.com)		COUNTY		Zoebel	1				Ι.						_
Northwood	: (701) 587-6010		TWP				RANGE				W			- 1		E
Benson: (	(320) 843-4109		SECTION PREV. CI		Grass/	QTF		ACRES	6 0							
SUBM Smith Sheep Farm	ITTED FOR:		FOUR 0. 31119 F	2D 22	G SOL		D BY:	DU44	26	REF		94735	S		e - 2	
Grunthal, MB			BOX 13		48		ROA	ovo		LAB	-	W216		X #	0	
Date Sampled 05/	/03/2014				Date	e Rece	ived 05	/09/	2014			Dete	e Repo	rted	5/9/2	014
Nutrient In	The Soil	Inter	pretatio	n	14	t Cro	p Choic	e	21	d Cre	op Choic	e	31	d Cr	op Chi	oice
1 2 4 1 C 1		100	a Hed H	1.07		Grass	Alfalfa			Com	-Silage			So	ybeans	
0-6"	31 lb/ac					VIEL	GOAL			YIEL	D GOAL	25.4		YIE	D GOAL	
6-24*	30 lb/ac		-		mail	4	Tons			14	Tons			40	0 00	1
0-24"	61 lb/ac				SUG	SESTER		NES	SUG	GESTER		ES	SUG	GESTE	D GUIDI	ELINES
vitrate						Brok	edcast			Bro	adcast		-	Bri	oadcast	
acoste	1.1.1			50	LB/A	CRE	APPLIC	TION	LB/	CRE	APPLICA	TION	LB//	ACRE	APPL	CATIO
Olsen	44 ppm				N	0			N	85			N	•••		
otassium	149 ppm				P2Os	0			PiOs	15	Band (2	*2) *	P205	ø	-	
	and the first				K20	0	-		K3D	64	Broadc	ast	K70	34	Bros	dcast
Chlande 0-6*	22 lb/ar				CI		1		CI				CI			
6-24"	150 lb/ac				5	10	Broade (Tria	2000	5	8			s	10		ndcas rial)
eren				-	8				8		-		B	2		
tinc	2.24 ppm				Zn	0			Zn	0	-	-	Zn	0	1	and a
ren				-	Fe			2	Fe				Fr			
fanganese .	-			-	Mn		1		Mm		1		Ma			
coper	0.46 ppm		-	-	Cu	2	Broade	cast	Cu	0		1 A	Cu	0		State.
lagnesium			-	-		-	(Tria	1)	cu				LU			
atrium				-	Mg		1		Hg				Mg			-
indium					Lime				Lime	-		-	Lime	-		
rg.Senves	3.4 %					1		Cati	on Exc	12000	95 634	se Se	turatio	n (Ty	picat Ra	inge)
Carbonste(CCE)	at See				Soil	H B	uffer pH		Capacit		% Ca	96 F		6K	% Na	96 1
0-6* 6-24*	0.3 mmho/cm 0.29 mmho/cm				0-6* 7		N N	1	P4							

Crop 1: Nany crops may respond to a starter spplication of P & K even on high soil tests. Crop Removal: P205 = 40 K2D = 192 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Orup 2: \* 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 = 50 220 = 516 ASVISE Broadcast guidelines will build P & K test levels to the high range over several years. Orup 3: Heny crops may respond to a starter application of P & K even on high suil tests. Crop Removal: P205 = 35 K2D = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

			SO	IL TE	ST	REPO	RT		]			N			
	A ATORIES	FIELD II SAMPLE	DI .	(E 21-(		-			ĺ						
	ww.agvise.com)	COUNTY	Y J	erami	3					N		_			E
	: (701) 587-6010 (320) 843-4109	TWP SECTIO PREV. C		irass//	QT F Alfalf		ACRES	0				_			-
SUBM Smith Sheep Farm	ITTED FOR:	FOUR C	)AK A	G SOLL		D BY:	DU44	25			-	S			
Grunthal, HB		BOX 13 KLEEFE		B		RDA	070		LAB	-	94730 WZ16		X =	0	
Date Sampled 05,	/03/2014			Date	Rece	ived 05	/09/2	2014			Date	e Repo	rted	5/9/2	014
Nutrient In	The Soil	n	15	t Cro	p Choic	e	20	d Cro	p Choic	e	31	rd Cr	op Cho	oice	
	and the second	High		Grass	/Alfalfa			Corn	-Silage			Se	ybeans		
0-6* 6-24*	102 lb/ac 96 lb/ac			YIEL	GOAL			YTELD	GOAL			YIE	LD GOAL		
		******		-		Tons			14	Tons			-41	D BU	
0-24**	198 lb/ac			SUGG	ESTEC	GUIDELI	VES	SUG	GESTED	GUIDELIN	IES	SUG	GEST	ED GUIDE	LINES
Nitrate					_	dcast				adcast				oadcast	1
Olsen	101 ppm	*******		LB/A	CRE	APPLICA	TION	UB/A	10	APPLICA		LB//	ACRE		CATION
Phosphorus				Patts	0	-	-	P:05	0		-	P:05	0		
Chloride	291 ppm			K20	0			K3O	10	Band (2)	(2) =	к10	0		and the second
0-6" 6-24"				C1	Ø		_	12	0			CI S	0	-	-
Sulfur			-	5	U)			5	0			B	0		
Zine	4.62		-	Zn	0			Zn	0			Zn	0		
Irun				Fe	-			Fe		22.9		Fe			
Nanganese			-	Ma				Ma		-		Mn			
Copper Nagnesium	0.58 ppm			Cu	1	Broede		Cu	0			Cu	0		
Calzium			-			(Trial									
Sedlam				Mg				Mg		+		Mg			1.1
Org.Natter	10.44		-	Lime	T	1		Lime		1		Ume	1	1	
Centorate(CCS)			1	Soll p	HB	uffer pH		an Excl Capacit			44 Sa %8			pical Ra	ngo) % H
0-5" 6-24"	0.44 mmho/cm 0.25 mmho/cm			0-6" 7. 6-24" 8.						% Ca	70.0		•K	% Na	70.11

Crop in Newy crops may respond to a starter application of P & K even on high solitests. Crop Removab P205 = 40 K20 = 152 AGVISE Broadcast guidelines will build P & K test fevels to the high range over several years. Crop 2: \* Coution: Seed Placed Fertilizer Can Cause Injury \* Hony crops may respond to a starter application of P & K even on high solitests. Crop Removab P205 = 35 K20 = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Crop 3: Hany crops may respond to a starter application of P & K even on high solitests. Crop Removab P205 = 35 K20 = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

					SO	ILT	EST	REPOI	RT					N			1
			- 1	FIELD IC		SE 09-	05-06	E				201					
Soil Analysis b	y Agvise Laborato	ries		FIELD N	AME	SE 09-	05-06	E									
	ww.agvise.com)			COUNTY	(	Hunter						w	-	_			E
	: (701) 587-6010			TWP				RANGE									-
Benson:	(320) 843-4109			SECTIO		Grass/	Alfalf.		ACRES	0							
SUBM Smith Sheep Farm	ITTED FOR:			FOURO		G SOL		D BY:	DU44	26				S		1.57)-	
Grunthal, MB	- E.			31119   BOX 13 KLEEFE	1			ROA	070	4 - 1	REF LAB		94737 W216		X #	0	
Date Sampled <b>05</b>	/03/2014					Date	e Rece	ived 05	/09/	2014			Date	e Repo	rted	5/9/2	014
Nutrient In	The Soil	In	terp	retatio	n	11	it Cro	p Choic	e	21	d Cro	op Choic	e	3	rd Cr	op Ch	oice
				Net	High		Grass	/Alfalfa			Com	Slage			Se	ybeans	
0-6" 6-24"	5 lb/ac 9 lb/ac						VIELO	GOAL			YTEL	GOAL			YIE	LD GOAL	
		***				1.21	4	Tons	1		14	Tons			-10	D BU	
0-24"	14 lb/ac	1.07	1			SUG	GESTED	GUIDELI	NES	SUG	GESTER	GUIDELIN	NES	SUG	GEST		LINES
filrate						14.76	Broa	adcast			Broa	adcast			Br	oadcast	-
Olsen	21 ppm					LB//	46	APPLICA	TION	LB//	132	APPLICA	TION	LB/	ACRE		CATIO
hosphorus Massaum												-			-	-	
	65 ppm					P2Os	0			P2Os	32	Broader	355	P205	0		
Monde	1 - 1 - 1					K20	117	Broadc	ast	K10 CI	111	Broadc	ast	Ka0	74	Eiro3	dcast
0-6" 6-24"	14 lb/ac 36 lb/ac	4				S	26	Broadc	ast	s	20	Broadc	ast	s	20	Bros	dcast
5-24	30 10/ 80																
lores						8				B	-			B			
the	1.85 ppm					Za	0	-		Zn	0	-		Za	0		
ren						Fe				Fe				Fe			
Ranganese						Mn				Mm				Ma		1	
Costper	0.7 ppm					Cu	1	Broade (Trial		CU	0		4	Cu	0		
Nagnesium								(IIII)	-						-		
Calcium		-	-			Mg				Mg				Mg			
Sodium					-	Ume		1		Lime				Lime			
DryMatter	21%								Catl	on Exc	hange	4. Ba	Ise Sal	turetic	m (T)	pice) Ra	inge)
Carbonoso(CCE)	A. DA	1		1		Soil (		lafter pH		Capadi		% Ca	16 M	4g .	6K	W Na	96.3
0-6" 6-24"	0.13 mmho/cm 9.13 mmho/cm				the second	0.6* 1						and the second					

Crop 1: Namy props may respond to a starter application of P & K oven on high soil tests. Crop Removal: P 205 = 40 K20 = 192 AGVISE Broadcast guidelines we build P & K test levels to the high range over several years.

Crop 2: Many crops may respond to a starter application of P & K even on high soil trists, Crop Removal: P205 = 50 K20 = 116 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Crop 3: Many crops may respond to a starter application of P & K even on high soil tests, Grap Removal: P205 = 35 K20 = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to a starter explication of P & K even on high soil tests, Grap Removal: P205 = 35 K20 = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nknogen an fields testing lives than 60 Bs/ac with a limited soybean history.

			SC	ILT	EST	REPOR	T		]		.,	N			
10			FIELD ID	SE 10-	05-06	32		17	Ì	2.0		2			
	Agvise Laborator		FTELD NAME	SE 10-	05-06	E									
	ww.agvise.com)		COUNTY	Hunte	r					N					E
	: (701) 587-6010		TWP			RANGE				VV.					-
Benson: (	(320) 843-4109		SECTION PREV. CROP	Grass	QTI Alfalf		CRES	0							
	ITTED FOR:					D BY: I	DU44	26	1			S			
Smith Sheep Farm			FOUR OAK		UTIO	4						0			
			31119 MD 2 BOX 131	/E					REF	* 8	94731	BO	X #	0	
Grunthal, MB			KLEEFELD,	NB		RDA 0	ovo		LAB	4 N	W216	76			
Date Sampled 05/	/03/2014			Dat	e Rece	elved 05/	/09/3	2014			Dat	e Repoi	rted	5/9/2	014
Nutrient In	The Soil	Inter	pretation	1	st Cro	p Choice		21	d Cro	p Choic	_	Зг	d Cr	op Cha	Dice
THUCK PERCENT	The Son	Ander								and the second second				vbeans	
			Hell Hoga			s/Alfalfa	_	-		Slage					-
0-6" 6-24"	16 lb/ac 24 lb/ac				VIEU	D GOAL	_		VIELD	GOAL		-	YTEL	D GOAL	
		*****			4	Tons			14	Tons			40	BU	
0-24"	40 lb/sc	100		SUG	GESTER	O GUIDELIN	ES	SUG	GESTED	GUIDELI	IES	SUG	GESTE	D GUIDE	ELINES
Nicrose				21.11	Bro	adcast			Brow	adcast			Bro	adcast	and the
	a de la come de		- Calls	LB/J	ACRE	APPLICAT	ION	LB/	CRE	APPLICA	TION	LB/A	ACRE	APPLI	CATION
Olsen Phespherus	33 ppm	*****		N	20	12		N	106			N	***		
Potassium	74 ppm				-	and the second			15	Band (2	×2) =		-	1	
				PrOs	0			PaOs	15			PJOs	0		
Chloride				K20	105	Broadca	Ist	K2O	106	Broadc	ast	K <sub>2</sub> O	70	Broa	dcast
0-6-				CI		1		ci		- secol -	-	13	4-0		
6-24" Sultur	66 ID/ac	******		5	0		-	5	0			S	0		
Baren							-	B				B	-		
Zing	6.08 ppm					1			-	1			-		
iran				Zn	0	1		Zn	0	1		Zn	0		
Hangonese				Fe			_	Ге				Fe			
Copper	2.66 ppm			Mrs				Mn				Ha			
Hagnesium			12. 100	Cu				Cu	0			Cu	0		
Calcium				Mg				Mg				Ho			
Sodium				Lime	1	1		Line	-	1		Lime			
and and a state	2.7 %			-					-		-		a / **-	pical Ra	1
Carbonate(CCE)	and a second			Soil	pH B	lufter pH		on Exc Capaci	_	% Ca	96 7		b K	No Na	96 H
0-6*	0.12 mmho/cm			0-5" 3	7.3	11				- Cd	1	-		110	T

Grop 1: Hany crops may respond to a starter application of P & K-even on high soil tests. Crop Removak P2D3 = 40 K2D = 192.464156 Broadcast guidelines will build P & K Crop 2: \* Caution: Seed Placed Pertilizer Can Cause Injury \* Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K2D = 116 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Crop 3: Hany crops may respond to a starter application of 9 & K even on high soil tests. Crop Removal: P205 = 55 K2D = 116 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Crop 3: Hany crops may respond to a starter application of 9 & K even on high soil tests. Grop Removal: P205 = 55 K2D = 60 / K6VISE Broadcast guidelines will build P & K test levels to the high range over several years.

			SOIL 1				N											
A. ( 6		SW 33	8-05-0	76			Ĩ											
LAI	SAMPLE																	
Soil Analysis b	ries		MESW 33		72													
	ww.agvise.com) I: (701) 587-6010		COUNTY	DeJor	g	RANGE			1	W					E			
	(320) 843-4109		SECTION		OT		ACRES	5 0										
	PREV. CR	DP Com-				J												
	ITTED FOR:					ED BY:	DU44	26	)			S			J			
Smith Sheep Farm	1		FOUR 0/	KAG SO	LUTIO	N			<b>3</b>									
			BOX 131						REF	* 8	9474	2 80	X #	0				
Grunthal, HB			KLEEFEL		LAB # NW21689													
			^						-									
Date Sampled 05	/03/2014			Dat	te Reco	eived 05	/09/:	2014			Det	e Repo	rtcd	5/9/2	014			
Nutrient In	The Soil	Inter	rpretation	1	st Cro	op Choic	.e	21	d Cro	p Choic	e	3	rd Cr	op Ch	oice			
		1000	w Ned H	ah ing	Cor	n-Grain			Com	-Silage			So	ybeans				
0-6" 5 lb/ac 6-24" 48 lb/ac 0-24" 53 lb/ac			1000		YIEL	D GOAL	VIEL	GOAL		YIELD GOAL								
		*******		160 BU SUGGESTED GUIDELINES SUG						Tons			40	) BU				
										GUIDELI	VES	SUGGESTED GUIDELINES						
Nitrate		Broadcast						Bro	adcast		Broadcast							
NITELE								10/	CRE	APPLICA	TTON							
Disen	37 ppm		******		139			N	93			N		Arre	icano.			
Polassium	93 ppm			P205	15	Band (2	x2) "	P103	15	Band (2	x2) =	P2Os	0					
and the second				1.03	1.5			1205				1205		1				
Chinese				K20	116	Broadc	ast	K:0	95	Broadc	ast	K:0	61	Brot	deast			
0-6*	22 lb/ac			CI				CI				CI						
6-24"	-48 lb/ac				15	Broade	:net	5	15	Broade	ast	5	15	Bro	adcast			
laren	Y				15	(Trial	0	2	12	(Trial	)	3	15	(1	riai)			
time	2.17 ppm			в	-	-		9		1		8	-					
ron				Zn	0			Zn	0			2.00	0	1				
Campanese				Fe				Fe				Fe						
lopper	0.4 anm			Ma				Mn				Ma						
tagnesium				Cu	o			Cu	0	-		Cu	0		Sec. 2			
Calcium .	-			Hg				Mg		-		Mg						
iodium				Lime	-	-		Lime	-			Lime		1				
ing matter	2.8 4					-							L	1				
(Brbsmithel(CCE)	1 11			Soil	OH B	utter pH	and the second s	on Exch Capacit				sturation (Typics! Range)						
0-6* 5-24*	0.19 mmho/cm 0.19 mmho/cm			0-6*	8.1					% Ca	96 1	40 9	6 K	% Ka	<b>4</b> H			

Crop 1: \* Caution: Seed Placed Fertilizer Con Souse Injury \* Utany crops may respond to a starter application of P (): K even on high soil tests. Crop (Removal: P205 = 64 K20 = 45 (AGVISE Broadcast guidelines will/build P & K htt: Jevels to the high range over saveral years. Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 64 K20 = 10: AGVISE Broadcast guidelines will build P & K test levels to the high range over saveral years. Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K20 = 10: AGVISE Broadcast guidelines will build P & K test levels to the high range over several (years. Crop 3: Flany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 35: K20 = 60 AGVISE Broadcast guidelines yill build P & K test levels to the high range over several grears. Soybeans may respond to nitrogen on fields testing less than 60 B/ ag with a limited soybean history.

				SOIL T	EST	REPO	RT					N					
		ŀ	FIELD ID SAMPLE		-05-0	6E						1					
					-05-0	6E											
					oby				1	N		_			E		
	: (701) 587-6010		TWP			RANGE									-		
Benson: (320) 843-4109 SECTION PREV. CROP					QTF Alfalf		ACRES	0									
	ITTED FOR:		(				DU44	26				S					
Smith Sheep Farm	r			AK AG SOI	UTIO	N						0					
			31119 R BOX 131						REF	# 8	94739	80	X #	0			
Grunthal, MB			KLEEFEI	-		RDA	GVO		LAB	4 N	W215	94					
			(														
Date Sampled 05,	/03/2014			Dat	e Rece	elved 05	/09/2	2014	~~~~		Date	Repo	rted	5/9/2	014		
Nutrient In	The Soil	Inter	pretation	1	st Cro	p Choic	e	2n	d Cra	p Choic	e	31	rd Cr	op Cho	oice		
and the second se			as sheet to	-	Gras	s/Alfalfa			Com	Slace			So	ybeans			
0-6" 6-24"	12 lb/ac 18 lb/ac			YIELD GOAL					YTELD	GOAL		YIELD GOAL					
0-24" 30 lb/ac			3 3 6 5		4 Tons					Tons			40	D BU			
				SUG	SUGGESTED GUIDELINES SUG					GUIDELIN	IES	SUGGESTED GUIDELINES					
				Broadcast						denst		Broadcast					
				10/					CRE	APPLICA	TON	LB/ACRE APPLIC			CATTO		
Olsen	5 ррт			N	30	AFFULA		N	116	AFFLICA	TON	N			CATO		
Potassium	63 ppm			P.05	62	Broadc	ast	P2Os	95	Broade	ost	P205	64	8708	deast		
			28.2	KaO	119	Broade	ast	K20	112	Broade	ret	KID	75	Broa	deast		
Chloride			1									CI					
0-6"								<u></u>					-				
6-24"	324 lb/ac			···· 5	0		-	5	0			5	0				
Baron				B	1			8				B					
tinc	1.05			Zn	0			Zn	2	Broadca	sst	Zn					
רעמיו	1.05 ppm			Fe	-	1	-	Fe	-	1		Fe	-				
Manganese	e 1			Mo				Ma		1		Mn					
Copper	0.49 ppm				-	Broadd	-			-			-	-			
Nagnesium	ette patt			Cu	2	(Trial		Cu	0			Cu	0				
Calcium				Mg				Mg				Maj					
Sadum				ume		1		Line		1		Lime					
OrgHatter	4.3 %													aller 100-			
Carbonate(CCE)				Soil	pH B	luffer pH		on Excl Capacit				Ng % K % Na		% Na			
0-6" 6-24" Sol, Salis	0.33 mmho/cm 0.46 mmho/cm			0.5"													

Crop 1: Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 40 R2D = 192 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K20 = 116 AGVISE Broadcast guidelines will boild P & K test levels to the high range over several years.

Crup 5. Henry crupe may respond to a starter application of P & K even on high soil tests. Crup Removal: P2OS = 35 (20) = 40 ACV2SE Breadcast guidelines will build P & K lost lovels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/sc with u limited soybean history.

Soil Analysis b			and the second second second				Call of the Call			2						1	
	FIELD ID SAMPLE ID									Ì	1.30						
(http://w	Soil Analysis by Agvise Laboratories FIELD NAME (http://www.agvise.com) COUNTY					05-0	6E										
											N					E	
	: (701) 587-6010		TWP				RANGE			· `						-	
Benson: (320) 843-4109 SECTION PREV. CROP						Alfali		ACRES	0	ļ			-				
SUBMITTED FOR: Smith Sheep Farm FOUR OAK 31119 RD BOX 131 Grunthal, MB KLEEFELD,							ED BY:	DU44	26	]			S		1942 ( M. 1		
							RDA	070	REF	-	X #						
			L				NUM			<u> </u>					_		
Date Sampled 05,	/03/2014	To and American			Dat	e Rece	elved 05	/09/	2014			Date	Repo	rted	5/9/2	014	
Nutrient In	The Soil	Inte	erpretat	ion	1:	st Cra	op Choic	e	20	nd Cro	p Choic	e	31	d Cr	op Ch	Dice	
		1000	en Hes	High		Gras	s/Alfalfa			Corn-	Slage			So	ybeans		
0-6" 6-24"	8 ib/ac 9 ib/ac		YIELD GOAL							VIELO	GOAL	-	YTELD GOAL				
				1	1000	4	Tons			14	Tons		40 BU				
0-24"	0-24" 17 lb/ac				SUGGESTED GUIDELINES SUG							VES	SUGGESTED GUIDELINES				
Nitrate				Broadcast						Broa	dcast	-	Broadcast				
Salar Barris											-		LB/ACRE APPLICATIO				
Olsen	9 ppm				N N	43	APPLICA	TION	N N	129	APPLICA	TION	N N	***	APPL	CATION	
Petassium	#3 ppm			Kas .	P:Os	48	Broade	ast	PaOs	80	Broades	ast	P205	51	Broa	dcast	
time and the second				and and	K20	94	Broadca	ast	K20	101	Broadc	ast	K20	65	Broz	dcast	
Chioride					CI				CI		1		CI				
0-6-	74 lb/ac			a contract of the													
6-24" Sulfur	168 lb/ac				S	0			S	0			5	0			
Seren				1	8				8				8				
Zinc	1.08 ppm				Zn	0			Zn	2	Broadca	ast	Zn	D			
lson				120	Fe				Fe				Fe				
Ranganese					Mn		-		Mn				Mn	-	-	-	
Copper	0.58 ppm	•••••			Cu	1	Broade		Cu	0			Cu	0	1		
Hagnesium		b your						-		in the second							
Calcium	-			1	Mg				Mg				Mg		-		
Sodium Dig.Matter					Lime		1		Ume				Lime		1		
	5.9 %	******			Soil	-	wifer pH		on Excl	_	% EL	se Sal	turation (Typical Rangi				
Carbonate(ECE) 0-6* 6-24*	9.33 mmho/cm 0.25 mmho/cm			124	9-5* 6				Capacit	TV	% Ca	% H	49 94	K	% Na	% H	

Crop Is Navy crops may respond to a shorter application of P & K even on high solitants. Crop slemoval: P205 = 48 K20 = 192 / GVISE Broadcast guidelines will build P & K cast levels to the high range over several years. Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Grop Removal: P205 = 50 K26 = 116 AGVISE Repetered years.

Crop 3: Namy crops may respond to a starter application of P & K even on high soil tests. Crop Removal P205 + 33 (200 = 50 A GVISE (Proadcast cuidelines will build P & K test forces to the high range over several years. Soybeans may respond to ribrogen on fields tusting less than 60 B/ac with a lim and soybean history.

	SOIL TEST REPORT	N
Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010 Benson: (320) 843-4109	FIELD ID SE 27-05-06E SAMPLE ID FIELD NAME SE 27-05-06E COUNTY Runkowsky TWP RANGE SECTION QTR ACRES 0 PREV. CROP Grass/Alfalfa	E
SUBMITTED FOR: Smith Sheep Farm Grunthal, MB	SUBMITTED BY: DU4426 FOUR OAK AG SOLUTION 31119 RD 27E BOX 131 KLEEFELD, NB RDA OVO	S REF # 894741 BOX # 0 LAB # NW21657

Date Sampled 05/03/2014

Date Received 05/09/2014

Date Reported 5/9/2014

Nutrient In	The Soil	Interp	retation	1:	st Cro	p Choice		21	d Cro	p Choic	e	31	rd Cr	op Chi	oice	
		Sine Lon	Hed High		Grass	s/Alfalfa			Corn	-Silage			So	ybeans		
0-5* 5-24*	4 lb/ac 6 lb/ac				YIELD GOAL			YIELD GOAL				YIELD GOAL				
	0 10/ 50			ASKT &	4	Tons			14	Tons		40 BU SUGGESTED GUIDELINE				
0-24**	10 lb/ac			SUG	GESTEC	GUIDELIN	ES	SUG	GESTEC	GUIDELIN	IES					
Nitrate				Broadcast				Broadcast				Broadcast				
				LB//	CRE	APPLICAT	TON	LB/A	CRE	APPLICA	TION	LB/	ACRE	APPLI	CATION	
Phesphorus	15 ppm			N	50	F.		N	136			N			-	
Potassium	66 ppm			PrOs	26	Broadca	st	PrOs	56	Broadc	586	P.Os	32	Bros	dcast	
section in the second			1 Bay	K20	90	Broadca	st	K20	99	Broadc	ast	K30	64	Broa	dcast	
Chloride 0-6"				CI	-			C1				CI	1			
0-6- 6-24" Sulter	38 lb/ac 84 lb/ac		•••••	5	o			5	0			5	0			
Boron				B				B				8				
Zine	1.45 ppm			Zn	0			2n	2	Broadca	<b>5</b> 88	Za	0			
from				Fe				Fe				Fe				
Manganesa				Ma				Mn				Ma				
Copper	0.79 ppm			Cu	1	Broadca		Cu	0	· e.		Cu	0			
Nagnesium						(Trial)	-									
Calcium				Mg				Mg				Mg				
Sodium				Ume				Line				Lime				
GrgHatter Cerbonate(CCE)	3.4 %		•	Soil off Bu		Suffer pH Cati		ion Exchange		% Base Sa		ituration (Typ		pical Ra	nge)	
			1			area pri		Capacit	v	46 Ca	96 P	10 9	6 K	% Na	96 H	
0-6" 6-24" Sol. Saits	0.26 mmho/cm 0.22 mmho/cm			0-6* 8 6-24* 6	-											

Crop 1: Many crops may respond to a storter application of P & K even on high soll tests. Crop Removal: P2O5 = 40 K2O = 192 A GVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K20 = 116 A GVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 33 K20 = 60 A GVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 ib/ac with a limited soybean history.

$\sim$	0	50	ILTE	ST	REPORT				N			
E	the season	SAMPLE ID FIELD NAME COUNTY	RL 544 RL 544 Dustin \		RANGE			N		1		E
(http://w Northwood	y Agvise Laborato ww.agvise.com) : (701) 587-6010 (320) 843-4109	SECTION PREV. CROP		धा		es o			-			
SUBM Smith Sheep Farm	ITTED FOR:	FOUR OAK A 31119 RD 27 BOX 131	G SOLU	-	ED BY: DU N	4426	REF	≠ 91166	S 7 80		0	
Grunthal, MB		KLEEPELD, 1	MB		ROA OVO		LAB	# NW269	70			
Date Sampled 05,	/31/2014		Date	Reco	elved 06/06	5/2014		Dut	e Rapo	rted (	5/8/2	014
Nutrient In	The Soil	Interpretation	151	Cre	op Choice	21	d Cro	p Choice	31	d Cro	p Cho	lice
				Com	n-Sillage		Corr	-Grain		Grass	Allalta	
0-5- 6-24"	56 lb/ac 105 lb/ac			YIEL	D GOAL		VIEL	GOAL		YIEL	D GOAL	
0. 24	108 10730	************		17	Tons		160	SU		4	Tons	
0-24"	164 ib/ac		SUGS	ESTE.		503		GUEDELINES	SUG	GESTER		LINES
itrate				Bro	adcast		Brou	rdeast		đra	-	
			LB/AC	RE	APPLICATIO	N LAA	CRE	APPLICATION	18//	CRE	APPLI	CATION
Oleen	32 ppm		N	13	14. 1	N	28		n	e		
tosphorur starrium	557 nom		P.04	15	Band (2x2)	· P.O.	15	Sand (2x2) *	P201	0		
	Same								1205	-	-	
Norice			K.(O	10	Band (2x2)	K20	10	Band (2x2) *	×10	0		
0-6- 6-24-		******	CI	1.00	soit its	CI		7	CI		-	
utur			5	0	1	5	0	- Conden	s	0		
	and a manifestering		0		100	a	-	1 Junio	8			
104	1.45 ppm		Zn	0		20	3	Broadcast	Zn	0	1	
angencas			Fe		1 70	Fe		al	Fe	-		
apper			Min	-	- 1-5	Mis		10 . W. 63	Ma			-
agreature	1.61 ppm	*********	cu	0	20	Cu	0		Cu	0		1.14
Prism	6.5	the starter	Mg	1	Singe Co	Mg			Ng	-	-	1-
coun			Line	0	122	Lime	0		Ume	0	1	
tog Matter	7.1 64		A CONTRACT	-		JI COL		1 Contraction		1.00	15	21.
a banate(CCE)			Seil pi	• 8	tuffer pH Ca	tion Esci Capaci		% Base Sa				-
0-6- 6-24-			0-6* 5. 5-14* 7.		-	Capaci		96 Ca 96 I	ng 9	K	1/2 NB	96 H

Crop 1: \* Caution: Seed Placed Pertilizer Can Cause Injury \* Nany trops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 61 K20 - 141 ASVISE Broadcast guidelines wit build P & K test levels to the high range over several years. Crop 3: \* 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 = 64 K20 - 44 ASVISE Broadcast guidelines wit build P & K test levels to the high range over several years. Crop 3: \* 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 = 64 K20 - 44 ASVISE Broadcast guidelines wit build P & K test levels to the high range over several years. Crop 3: Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 40 K20 - 193 AGVISE Broadcast guidelines wit huild P & K test levels to the high range over several years.

$\sim$	SOIL TEST REPORT	) <u>N</u>
Earth	FIELD ID SW 33-05-06E SAMPLE ID FJELD NAME SW 33-05-06E COUNTY Dustin Wiebe	wE
Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-5010 Benson: (320) 843-4109	TWP RANGE SECTION QTR ACRES O PREV. CROP	
SUBMITTED FOR: Smith Sheep Farm	SUBMITTED BY: DU4426 FOUR OAK AG SOLUTION 31119 RD 27E	S
Grunthal, HB	BOX 131 KLEEFELD, MB RDA GVO	REF # 921659 BOX # 0 LAB # NW28976

#### Date Sampled 06/19/2014

Date Received 06/23/2014

Date Reported 6/23/2014

Nutrient In	The Soil	Interpretation	1	st Cri	op Choice		20	d Cro	p Choice	e	3	rd Cr	op Cho	oice
		AN TON HEA HO		Cor	m-Grain			Corn	-Silage			So	ybeans	
0-6* 6-24*	17 lb/ac 36 lb/ac			YIE	LD GOAL			VIELD	GOAL			YIE	D GOAL	231
ATT ALL AND A				15	o BU			14	Tons			40	BU	
0-24"	53 lb/ac		SUG	GESTE	D GUIDELINE	S	SUG	GESTED	GUIDELIN	ES	SUG	GESTE		LINES
Nitrate			1	Bro	padcast			Broa	dcast		1.30	Bro	adcast	
			LB/	ACRE	APPLICATI	ON	LB//	CRE	APPLICAT	ION	LB/	ACRE	APPLI	CATION
Olsen	70 ppm		- N	127			N	93			N	***		
Patassium	143 ppm	*****	P2Os	15	Band (2x2	e) •	P.05	15	Band (2x	2) •	P.05	0		
Chloride			K20	61	Broadcas	t	K20	67	Broadca	st	K10	37	Broa	deast
0-6*	20 lb/ac		CI				C1				CI			
6-24" Solfur Baron	42 lb/ac		5	15	Broadcas (Trial)	st	5	15	Broadca (Trial)		ŝ	15		idcast ial)
Zing	5.76 ppm		8				B		1	_	8	-		
Iron	5.//e ppm		25	0			Zn	0	1		Zn	٥		
Nanganase			Fe	-			Fe				Fe			
Copper	1.64 ppm		Ma	1			Mn				Mn	1		
Ragnesium			Cu	0			Cu	0			Cu	0	1	
Calcium			Mg				Mg				Mg	-	1	
Sodium			Lime	0		-	Lime	0			Lime	0		
Org.Hatter	1.7 %			1	-		on Excl		96 (8-	so Sz	turatio	n (Ty	nical Ra	(aga)
Carbonate(CCE)			Soil	H Hq	Buffer pH	1000	Capacit		% Ca	46 8		6K	% Na	% H
0-6* 6-24* Sol. Salts	0.14 mmho/cm 0.1 mmho/cm		0-6* 0 6-24* 2											

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

Crop 2: \* Continue to outside placed Factilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high solitests. Crop Removal: P205 = 50 R2O = 116 AGVISIE Broadcast: guidelines will build P & K test levels to the high range over several years. Crop 3: Hany crops may respond to a starter application of P & K even on high solitests. Crop Removal: P205 = 50 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybcans may respond to mitrogen on fields testing less than 60 B/ac with a Emilted soybean history.

3	0		L		so	DIL T	EST	REPO	RT		)			Ν	_		1
(http://w Northwood	Agvise Laborato ww.agvise.com) 1: (701) 587-6010 (320) 843-4109	nes	S F C T S	TIELD I SAMPLE FIELD N COUNT WP SECTIO	e Id Name Y	SE 32- SE 32- Dustin	06-0	SE RANGE	ACRES	5 0		w					E
SUBM Smith Sheep Farm Grunthal, MB	ITTED FOR:		3	OUR ( 11119 IOX 13	RD 2	AG SOL 7E		ED BY: N		26	REF	-	21664 W289	-	)X #	0	in a s
Date Sampled 06,	/19/2014					Dat	e Rec	eived 06	/23/	2014		•	Dat	e Repo	nted	6/23/	2014
Nutrient In	The Soil	Int	erpr	etatio	n	1	st Cro	op Choic	e	20	d Cro	p Choic	e	3	rd C	rop Ch	oice
				Marce	Hah			n-Grain			Corn	-Silage				ybeans	
0-6*	23 lb/ac						YIEL	D GOAL			уны	GOAL			YIE	LD GOAL	
6-24*	39 lb/ac						150	BU			14	Tons			4	0 80	1
0-24"	62 lb/ac					SUG	GESTE		NES	SUG	GESTED	GUIDELI	NES	SUG	GEST	ED GUID	ELINES
Nicrote						-	Bro	adcast		-	Broi	adcast			Br	oadcast	
President Contract	15 18 1 1 h			100	3	LB//	ACRE	APPLICA	TION	LB//	CRE	APPLICA	TION	LB/	ACRE	APPL	ICATION
Olsen	66 ppm					N	118	1.1		N	84			N		-	
Potausium	153 ppm					PaOs	15	Band (2	x2) *	P2Os	15	Band (2	×2) =	P205	0		
					19											_	
Chlonde						K <sub>2</sub> O	51	Broadc	ast	K.0	61	Broadc	art	K20	32	Broa	Ideast
0-6* 5-24*	16 lb/ac 30 lb/ac	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			h	CI	-			CI		-	~	CI	1	-	
Sulfur					32	s	15	Broade (Trial	100 C	s	15	Broadd (Trial		5	15		adcast rial)
Baroh				-		8	-	-		B				8		-	,
Zinc	5.73 ppm					Zn	0	1		20	0			Zn	0		
Nanganese						Fe	-	-		Fe	-	1		Fe	TRANSIT OF THE	1	
Cosper	1 77					Mn		1		Mn				Mn	-		
Hagnestum	1.77 ppm					Cu	0			Cu	0			Cu	0		
Calcium	1					Mg	-			Mg		-		Mg	-		
Sodium						Lime				Lime				Line	-		
Org.Mytter	1.5 %					-	1	1						L	1		
	100 M					Soil	H	Suffer pH	1.000	on Exca	-	% Ba	% I	And a state of the		Mi Na	mge) % H
0-6" 6-24"	0.12 mmho/cm 0.11 mmho/cm					0-6" 7 6-24" 7											

Crop 1: \* Caution: Seed Placed Pertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soli tests. Crop Removal: P203 = 60 K20 = 41 (AGVISE Recaduast guidelines will build P & K test Invels to the high range over several years. Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Hany crops may respond to a starter application of P & K even on high-soil tests. Crop Removal: P205 = 53 K20 = 116.4 SVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: Many crops may respond to a starter application of P & K even on high solitests. Crop Removal: P2CIS = 35 K20 = 60 A GVTSE limaticast guidelines will build P & K test lievels to the high range over several years.

$\sim$	~			50	DILT	EST	REPO	RT					N			-
	y Agvise Laborato	ries	SAN FIEL COL TWI	D ID IPLE ID D NAME INTY TION	SE 17- SE 17- Doug (	05-00	5E oboy RANGE	ACRES	0	1	w					E
	1: (701) 587-6010 (320) 843-4109		PRE	V. CROP						)		7	1			
	ITTED FOR:		311 80)	IR OAK 19 RD 2 ( 131 EFELD,	AG SOL 17E		ED BY: N		126	REF	-	11668 W269		)X #	0	
Date Sampled 05	/31/2014				Dat	e Rece	elved 06	/06/:	2014			Date	e Repo	rted	6/8/2	014
Nutrient In	The Soil	Inte	rpret	ation	1	st Cro	op Choic	e	21	nd Cro	p Choic	e	3	rd Cr	op Ch	oice
		Sec. 1		is High		Corn	-Silage			Corn	Grain			Gra	ss/Alfaifi	
0-6" 6-24"	33 lb/sc 42 lb/sc					YTEL	D GOAL		5.44	VIELO	GOAL	-	-	YIE	D GOAL	
0-24	42 10/60			100	-	17	Tons		1	160	BU			4	Tons	
D-24"	75 lb/ac	R. La	1		SUG	GESTER		NES	SUG	GESTER	GUIDELI	IES	SUG	GEST	D GUID	ELINES
Nitrate		1.01		123	-	Broi	adcast			Broa	dcast			Bri	oadcast	
	and and the second			1000	LB/	ACRE	APPLICA	TION	LB//	ACRE	APPLICA	TION	LB/	ACRE	APPL	ICATIO
Olsen	19 ppm				N	102		1	N	117			N	D		
Potassium	66 ppm	******		100	PaOs	49	Broadc	ast	P.O.	43	Broadc	ast	P.0:	0		
				- Sector	K <sub>2</sub> O	134	Broadc	ast	K10	144	Broadc	ast	K10	116	Eroa	adcast
Chloride		-	_	19.5	CI		100		CI				CI			
0-6* 6-24* 5:0%	18 lb/ac 24 lb/ac				s	15	Broadd (Trial		s	15	Broadd (Trial		s	15		adcast riai)
Berca				1	B				8				8			
2 mic	1.44 ppm				Zn	0			Zn	2	Broadca	ast	Za	0		
Iran			-		Fe	-			Fe		1		Fe			
Manganese Copper					Mn	-			Kn				Mn		-	
Hagnesium	0.43 ppm	*******	•		Cu	0			Cu	0		1	Cu	2		adcast rial)
Calcium					Mg		1		Mg				Mg	-	a	
Sed um				-	Lime		-		Lime				Ume		-	
Grg.Matter	2.6 %		-			1			-			1	-	- (7)	1	
Carbonate(CCE)					Soil	pHI B	uffer pH		on Exd Capacit		% 8a	% H			% Na	(1990) 46 H
0-6* 6-24*	0.3 mmho/cm 0.17 mmho/cm				0-5" 7											

Crop 1: Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2OS = 61.K20 = 141.AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crup 2: Namy crups may respond to a starter application of P & K even on high soil tests. Crup Removak P205 = 64 K20 = 43 A GVISE Broadcast guidelines will build P & K tast levels to the high range over several years.

Crop 3: Hany crops may respond to a starter application of P & K even on high stud tests. Crop Removal: P205 = 49 K20 = 152 AGVESE Broadcast guidelines will build P & K test levels to the high range over several years.

$\sim$	2				SC	DIL T	EST	REPO	RT		]			N			
(http://w Northwood	Agvise Laborato www.agvise.com) : (701) 587-6010 (320) 843-4109	ries		FIELD COUN TWP SECTI	LE ID NAME TY	NE 27- West 5 NE 27- Frank	Side o 05-0!	f Yard SE S In RANGE	ACRES	5 0		w					E
SUBM Smith Sheep Farm Grunthal, MB	unthal, MB KLEEFEL							ED BY:		26	REF		11671 W2697		)X \$	0	A
Date Sampled 05,	/31/2014						e Rece	ived <b>0</b> 6	/06/3	2014	^		Date	Repo	rted	6/8/2	014
Nutrient In	The Soil	In	terp	retati	ion	1:	st Cro	op Choic	e	21	d Cro	op Choic	e	3	rd Cro	op Ch	oice
0-6" 6-24"	14 lb/ac 24 lb/ac			Hed	High		YIEU	-Silage D GOAL			YTEL	i-Grain D GOAL			YTEU	s/Alfalfa D GOAL	
0-24"	38 lb/ac					SUG	GESTER	Tons GUIDELI	NES	SUG	GESTER	BU	NES	SUG	GESTE	Tens D GUIDI	FLINES
litrate						18/	Bro	APPLICA	TION	10/	Bro	APPLICA	TION	10/	ACRE	adcast	CATIO
Olsen	19 ppm					N	139	AFFLICA		N	154	Arruce		N	22	Arru	ICANO
atassium	69 ppm					P:05	49	Broadc	ast	P:05	43	Broade	ast	PaOs	0	1	1998 I.
:Horide						K20	132	Broade	ast	K20 CI	141	Broadc	ast	K20	112	Broa	dcast
0-6" 6-24"	120 +lb/ac 114 lb/ac					5	D			s	0			s	0		
Jaron				1	199	8		1		B				8			
Zine	1.96 ppm					Zn	2	Groade	ast	Zn	4	Broadc	ast	Zn	0		
750						Fr				Fe		-		Fe			
4angenese				1	100	Mn				Mn				Mn			
loposr Ragnesium	0.67 ppm		•••••			Cu	0			Cu	0			Cu	1		ndcast rfai)
aktium.						Mg				Mg				Mg			
indum				-		Lime				Lime				Lime		1	
Drg.Matter	6.3 %							1				AL PA	ll se Sab		01700	ical De	
Carbonate(CCE)						Soil	H B	uffer pH		on Excl Capaci		% Ca	% N			% Na	% H
0-6" 6-24"	0.9 mmho/cm 0.39 mmho/cm					0-6" 2								T	T		1

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removab P205 = 61 K20 = 141 AdVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P 205 = 64 K 20 = 43 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crep 3: Hany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 48 K20 = 192 A GVISS Broadcast guidelines will build P & K test levels to the high range over several years.

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(http://w Northwood	y Agvise Laborato ww.agvise.com) 1: (701) 587-6010 (320) 843-4109	ries	SAMPLE ID FIELD NAME	NE 27- Frank	ide d 05-0 Fries	of Yard DSE N Hen RANGE	<sup>1</sup> 之 ACRES	5 0		N					E
SUBM Smith Sheep Farm Grunthal, HB	ITTED FOR:		FOUR OAK 31119 RD 2 BOX 131 KLEEFELD,	AG SOL 7E		ED BY: DN	- 5	126	REF	-	11670 W269		X \$	0	]
Date Sampled 05,	/31/2014				e Rei	ceived 06	/06/	2014	^		Date	Repo	rted	6/8/2	014
Nutrient In	The Soil	Inter	pretation	1	st Co	rop Choic	e	20	d Cra	op Choic	.e	31	rd Ci	op Ch	oice
and and the second			R Hed High		Co	rn-Silage			Corr	-Grain			Gra	ss/Alfalfa	
0-6"	28 lb/ac				YIE	LD GOAL			YTEL	GOAL			VIE	LD GOAL	
6-24*	87 lb/ac				17	Tons	-	-	160	BU			4	Tons	
0-24"	115 lb/ac			SUG	GEST	ED GUIDELI	NES	SUG	GESTED	GUIDELI	NES	SUG	GEST	ED GUID	ELINES
Nitrate					Br	roadcast			Broi	dcast			Br	oadcast	- 17/1-0
				LB/	CRE	APPLICA	TION	LB/	ACRE	APPLICA	TION	LB/	ACRE	APPL	ICATION
Olsen	40 ppm	*****		N	62			11	77			N	0		
Potassium	92 ppm			PIOS	15	Band (2	x2) *		15	Band (2	¥2) #	PrOs	0		
amore in the car		1	a start	P303	19			PzOs	13			PAUS			
Chloride				K20	116	i Broadci	tas	KO	117	Broadc	ost	K20	82	Broa	dcast
0-6" 6-24"				CI				CI				CI	1		
Sulfur Baron			277	5	0			5	0			5	0		
Zos				B				8				B			
Iren	3.22 ppm	********	*******	Zn	0			Zn	0	1		Zn	0		
Hanganese				Fe				Fe				Fe		1	
Copper				Mn				Ma				Ma	1		
Hagnesium	1.22 ppm	********		Cu	0			Cu	0	-		Cu	0		
Calcium				Mg	-			Mg				Mg	-	-	
Sodium				Lime				Lime		a de activitados		Line	-	-	
Dig Harter				- une		1		Trute		<u> </u>		-	ť	1	
Carlasmate(CCF)	3.8 %			Soll	H	Buffer pH		on Exc			1.			pical Ra	
0-6* 6-24*	0.3 mmho/cm 0.38 mmho/cm			0-6° 0				Capacit	ry	96 Ta		9	6 K	% Na	96 H

Crup 3: \* Caution: Seed Flaced Fertilizer Can Cause Injury \* Nany crops may respond to a start as application of P & K aven on high soil tests. Crop Removal: P203 = 51 220 = 141 (46VISE Excedent guidelines will build P & K test levels to the high range over several years. Crop 2: \* Caution: Seed Placed Yertilizer Can Cause Injury \* Nany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P203 = 64 #20 = 43 A GVISE Excedents guidelines will build P & K test levels to the high range over several years. Crup 3: Many crups may respond to a starter application of P & K test levels to the high range over several years. Crup 3: Many crups may respond to a starter application of P & K tests on high soil tests. Crup Removal: P203 = 40 R20 = 1/92 A GVISE threedeast guidelines will build P & K test levels to the high range over several years.

$\sim$	SOIL TEST REPORT	N
Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-5010	FIELD ID NW 12-05-06E SAMPLE ID FIELD NAME NW 12-05-06E COUNTY Abe Braun TWP RANGE SECTION QTR ACRES 0 PREV. CROP	W E
Benson: (320) 843-4109		
SUBMITTED FOR: Smith Sheep Farm	SUBMITTED BY: DU4426 FOUR OAK AG SOLUTION 31119 RD 27E	S
Grunthal, MB	BOX 131 KLEEFELD, MB ROA OVO	REF # 911669 BOX # 0 (AB # NW26981

Date Sampled 05/31/2014

Date Received 06/06/2014

Date Reported 6/8/2014

Nut	trient In	The Soil	Interpretation	1:	it Cro	op Choice	21	nd Cro	p Choice		310	I Cro	op Cho	vice
- apply			Carl Low Hed High		Corr	n-Silage		Corr	Grain			Gras	s/Alfalfa	
	0-6" 6-24"	52 lb/ac 63 lb/ac			YIEL	D GOAL		YIELD	GOAL			YIEL	D GOAL	
		-	*******		17	Tons		160	BU			4	Tons	
	0-24"	115 lb/sc		SUG	GESTE	D GUIDELINES	SUG	GESTEC			sugg	ESTE		LINES
Nitrate	1000				Bro	adcast		Broa	edcast			Bro	adcast	
	Olsea				CRE	APPLICATION	LB/	ACRE	APPLICATE	DN	LB/AC	CRE	APPLI	CATION
Phosphanus	Ulsen	189 ppm		N	62		N	77	1		N	0		
Potassium		146 ppm		P303	0		PIOS	0		P	os	ø		
				KjO	79	Broadcast	KJO	62	Broadcast	t K	10	0		
Chloride	0-6*	112 lb/ac		CI			CI		1	(	-			
Sulfor	6-24"	132 lb/ac		s	0		s	0			s	0	1	
Baran	1943			8			8	1			B		4.2	
Zeet		6.59 ppm		Zn	0		Zn	0	1	2	In	0		
Iron				Fe			Fe			5	e		14	
Hanganese Copper				Ma		1.1.1.1.1.1.1.1	Mo		1	P	n l	· ·	-	Sec.
Magnesium		5.53 ppm		Cu	0	-	Cu	0	1	6		0	1.5	
Calcium				Mg			Mg				49	-		
Sodiam				Lime		-	Lime			U	me		1	
Org.Hatter		3.0 %				Cat	on Exc	hange	W Base	Satur	ation	(Typ	ical Ra	nge)
Carbonate/CCE	)			Soil	S H	Laffar rdd	Capaci		9% Ca	% Mg	96	K	% Na	% H
Sed. Salas	0-6* 6-24*	0.34 mmho/cm 0.22 mmho/cm		0-6* 1 6-24* 1										

Crop 1: Nany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 61 K20 = 141 A GVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Kany crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 64 K20 = 43 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Henry crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 40 K20 = 192 AGVISK Broadcast guidelines will build P & K test levels to the high range over several years.



Farmers Edge Laboratories 1007 Dugald Plond Winnipeg, Manilobs Canada R2J 0H3 Phone: 1 204 233 4099

	4 Oak Ag Solu Marcus Dueck 14-0027				Gro Ref Log Tot	wer: wer Fie evence al Loci al Acre npler:	Field I Ition:			7-6-7 I					Lot Number Date Sampl Received D Date Report	ed: ate:		2014 2014	0_007 07/30 07/30 07/31
Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg	Na ppm	<b>8</b> ppm	Cu ppm	Fe	Mn ppm	Zn ppm	CI ppm		рH	dS		
140730_007-0 140730_007-0		<1 <1	15.0	69	3 ∢2											84	0.1	6	
	Excess														V.Ad pH: 0-6	d Ack	s Nex	A A	v III
	Optimum						ι							· • • •	EC: 0-6		ing T	nde V	Tovic
	Marginal			-											-	V.Low	Low	Med	Ho
		N	P	ĸ	s				eq/100g		-		se Sat		-	Mg Ba		-	1
	0-6 lb/Ac: 6-24 lb/Ac:	<2 cfi	30	138	6 <12			e Satura ind (%):	ation (%	): Silt (%)	k.		se Sal ay (%):		Texture:		ise Sa	1 (%);	
Total Ib/A Estimated Ib/	c measured: ic to 24 inch:	2	30	138	8 17	Lab	Domme	nts:							'Boarbona	e Extract	icie (Ola	en) Pho	10 <sup>1</sup> 010

Fertility Recommenda	tion Previous Crop: Grass.			✓ Stan	v Remov	ed	V. Cor	tinuous	Crappi	ing.	treig	pated	
Vield Type	Rain Required (Inch)	Yield	% Yield Reduction	N	P205	K20	S	B	Cu	Fe	Mn	Zn	CI
Grass, Native													
Calculated Yield	10.1 (Wei)	78 cwt	0	130	20	70	15						
Calculated Yield	7.8 (Average)	59 cwt	0	120	15	50	10						
<b>Galculated Yield</b>	4.8 (Dry)	38 cwt	0	65	15	50	5						

Fertility recommendations are based on spring banding of N, S and seed placement of P, K. Consider total seed row lettilizer with regard to seeeding damage. High mitrogen rates may be more effective as split application.

For forages, P2O5 and K2O recommendations are for broadcast application. For banded or spoke wheel placement, the rate may be reduced by 1/3 to 1/2. The rate of Phosphorus application is based on seed-placement. Broadcasting and incorporation requirement on the average is 2-5 times that of seed-placement. Yields for Green Feed are shown in units of cwtacre of materials as hervested assuming 25% moisture content. This may be converted to tonsfacre by dividing cwtacre by 20.





/	
- (	LIVESTOCK MANURE SPREADING AGREEMENT
-	Between Canada Sharps Land Holling Heresther referred to as "Livestock Operator"
	There and the the first of the second and the second secon
	And: Canada Shaprland fff Thandowner or
	Netre print A "standaurs D"Land Rentar"
	Date: May 15/14
	The denation of this agreement is of <u>years</u> , beginning at the above date.
T	Responsibilities of the Landowner or the Land Renter
	Land Parcals salected as potential fields to receive manure
	Plata Legal Instition (Chesterner) Hamiles and Area preliable for speciality Cropping Institutions Amplication (acros) (acros) (acros) of entired area v.2)
	1 NW21566 77 70 Pesture fall
	3 NULSSGE / 150 145 Rolaton fall
1	The Landonnar or Land Renter: (Check where applicable/proposed)
	Gr Will keep this document and any other related records in his files:
	Cit will notify the Uwastock Operator of the datas three fields will be available for spreading:
1	
	C) agrees to purchase manura subfent at a rate of 3 per C) 1000 gal or C) tonne, conditional to manure
	C) agrees to purchase manare subject at a rate of 3 per C) 1000 get or C3 tonne, conditional to manure being applied with the method and time as apacified below by the Livesbock Operator;
~	C) agrees to purchase manare subject at a rate of 3 per C) 1000 get or C) tonne, conditional to manure paing applied with the method and time as apacified below by the Livesbock Operator:
-	agrees to purchase manufe subject at a rate of 3 per C 1000 gal or C1 conne, conditional to manufe being applied with the method and time as apacified below by the Livestock Operator:     Ci will incorporate manufe within 46 hours of broadcast applications if agreed to as part of the manufe application method
	Cl agrees to purchase manure subfent at a rate of 3 per Cl 1000 gal or Cl tonne, conditional to manure being applied with the method and time as apacified below by the Livesbock Operator: Cl will incorporate manure within 46 hours of brotecters applications if agreed to as part of the manure application method (below). Responsibilities of the Livesbock Operator Field Application Details
	Grageus to purchase namure subferit at a rate of 3 per C 1000 gal or C tonne, conditional to manure being applied with the method and time as apadified below by the Livesbock Operator:     Graft incorporate menure within 46 hours of broadcast applications if agreed to as part of the menure application method (below).     Responsibiliftles of the Livesbock Operator     Field Application Details     Time of Application
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	C) agrees to purchase namure subferit at a role of 3 per C) 1000 gal or C) tonne, conditional to manure being applied with the method and time as apacified below by the Livestock Operator: C) will incorporate menure within 48 hours of britidizet applications if agreed to as part of the menure application method (Selow). Responsibilifican of the Livestock Operator Field Application Details Time of Application C) Spring C) Summar C) Fell Application method C) Spring C) Summar C) Fell Application method C) Spring C) Summar C) Fell Application method C) Injection C) Infgation/sprinkter Applicator Livestock Operator C)
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Nemure Kanagement and Plenning in Nanitoba

Manure Spreuding Agreement - 2

Roymon

And: Can also Ray slow Augustus Harvalter referred to as: Prove plan Augustus Augustus "Landowner" or Plans May 15/BL/ The duration of this agreement is of years, baginning at the above data. Authorit toms of the comment of operations to a or agentical institutes of the present or provided or paper t. Responsibilities of the Landowner or the Land Renter Land Percele selected as potential fields to meeting data	A	1111	SPREADING		
And:       Parse plan       Parse plan       Plantage         Dates	Between Caroli Straps Low	as \$1000 in the lower and all should be			Operator <sup>®</sup>
Participation       Participation       Participation         Date:	and Canada haverban	12			
Deter:	Pierce print	C. Characters			
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Import				matters Conversion Inter	tilens Protonte
The Landowner or Land Ranter: (Check where explicable/proposed) Griffit heep this document and any other related records in his files: Griffit heep this document and any other related records in his files: Griffit notify the Livestock Operator of the datas those fields will be realiable for sprending: O agrees to purchase memore intrient at a rate of S per O 2000 get or O tome, conditional to memore being applied with the method and time as specified below by the Livestock Operator: Or will incorporate memore within 45 hours of breadment applications if agreed to as part of the memore application me (below). Responsibilities of the Livestock Operator Field Application Datable The of Application Datable Diffection in the of application is gring Summer Of Fell Application method Broadcast and incorporate within 48 hours D typettors Livestock Operator Of Heme of applicator:	Ouris	d factad (acrus)	(screet endusive of settied	0 500 7 20	Application 1
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(below).  Responsibilities of the Livestock Querator  Field Application Datable  The of Application  Application method  Application  Applicator  Livestock Operator  Custom applicator  Amplicator  Custom applicator  Custom  Cus	halos analisat units the marical and	Mine to enactified but	per to 2000 gat	or we course annually analysis	onal to manure
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Teramia MANURE SPREADING AGREEMENT Heres four referred to as "Livestock Operator" Hereafter referred to as: equ "Landowner" or and Ranbar May 15 MM Date: The duration of this agreement is of \_\_\_\_\_\_ years, beg Attitude turns of this contracted advances for applications involve and Aris and region years, beginning at the above data. es isplicit to this opvanisht we parental on pape 2. Responsibilities of the Landowner or the Land Renter Land Parcels selected as potential fields to reasive manure Hamiltal slav Copping Intantio Area perdabla for spreading Proferred Sald Legal location I Charle and Sendan Tir Owned | Ranbed speep exclusive of protocle map. 2) (sens) Rolation Lall NEZISIE 160 70 The Landownar or Land Renters (Check where applicable/proposed) @"Will keep this document and any other related records in his filesy @'will notify the Livestock Operator of the dates those fields will be available for spreading: per Cl 1000 gal or Cl towns, conditional to manure C) agrees to purchase manure nutrient at a rate of \$ \_\_\_\_ being applied with the method and time as specified below by the Livestock Operator; If will incorporate manure within 48 hours of brandcast applications if agreed to as part of the manure application method. (below). Responsibilities of the Livestock Operator **Field Application Datails** C Summer 6 61 Time of Application C Spring Gr Breadcast and incorporate within 48 hours Application method C) Broadcast C. Injection C Infostion/sorinkier Applicator TV Livestock Operator Name of applicator: . Custom applicator Anticipated Manure Application Starting Date: The Livestock Operators (Chack where applicable/proposed) I will keep track of these records, but will not disclose their without the consent of the Landowner and the Land Renter; I will pay all costs for soft testing and these results will be made available to both the Landowner and the Land Renter; dil cany a manura analysis tast and the results will be made available to both the Landowner and the Land Renter; If will calculate the manure application rate for each field on the basis of (check only one): C) the solt test recommendations for plant nitrogen requirements or G/Ere soil test recommendations for plant phosphonus reputrements G general soll fertility recommendations as per the Soll Fertility Golde (Hanitoba Agriculture and Food) or the Form Practices Guidelines for Beef/Deiny/Hog/Poultry Producers in Mumikable series I will provide a proof of calibration for the manure spreading equipment: Will notify the Landowner and the Land Renter of changes in anticipated dates and rates of application in volume and crop nutrient (H, P ,K); Grwill have a manure management plan prepared by a professional applogist, along with field map(s) highlighting setbacks to observe: W will provide a copy overall menure management plan to the Landowner and the Land Renter, if applicable.

Manure Hanagement and Planning in Manitoba

Humare Spreading Agreement - 1

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Manure Management and Planning in Manitoba

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Manure Spreading Agreement - 2

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	Please print		Ignature	Carland Renter*		
Date: Ju	422/14		•			
The duration	of this agreeme	nt is of	5	years, beginning at the	above date.	
Column Statement	the second s	and the subscript of the local division of t		ed Acts and repulsions implicit to this	epitanent en presented m	pope 2.
	selected as po			Land Renter		
Field	Legal location		Nominal size	Aree evellable for spreading	Cropping Intentions	Preferre
	117/ 21	Owned Rantad	(scres) 160	(acres exclusive of settacts see p.	2)	Application FAL
	967-6-76 EDD-5-7	=	160	160		FAL
			16.5			
Time of	ation Details Application		Spring	C Summer C Fall		
Applicat	ion method			<ul> <li>Broadcast and incorpo</li> <li>Infigation/sprinkler</li> </ul>	ate within 48 nours	
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**CROP ROTATION TABLE** 

			1432 acres	Total Net Acreage for Manure Application 1432 acres
			200	Grass Hay
MMMP Variety Yield Data	bulacre	95.8	192	Corn Grain
MMMP Varioty Yield Data	bulacro	32.6	320	Soybeans
MMMP Variety Yield Data	ton/acre	4.07	320	Corn Silage
MMMP Variety Yield Date	ton/acre	2.423	400	Alfalfa Hay
Source of Yield Information	Units	Historical Yield	Acreage	Expected Crops in the Rotation
w	•	U	8	<

A List all of the cmp(s) to be grown in the rotation on the acreage that will exceive manute.
B Indicate the average acreage for each ercp over the rotation. For example, if there are 720 suitable acres available for manure and approximately 40 there acres will be used to grow canola, enter 283. The trat of column B should add up to Total Net Acreage for Manure Application provided in the Manure Application Field Characteristic Table.
C. Exter the historical yield average for each rop. Long-term yield rearranges can be determined using MASC data (<u>http://www.mesc.mb.ca/masc.ns/i/ndex.htm?CpanPane</u>).
D. Enter the units for the yield rearrange are used, please provide copies.
D. Enter the units for the yield rearrange provided (or, buildect).

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

Is the livestock operation located in "certain areas"? X yes no

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

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

Use the Land Base Calculator to calculate the minimum area required for manure application.

Total minimum area required for manure application at two times crop removal, for operations outside of Hanover and La Broquerie	534 acres
Total minimum area required for manure application at one times crop removal, for operations within Hanover and La Broquerie	
AND For the long-term sustainability of operations outside of Hanover and La Broquerie	1 068 acres

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

X 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:

bas 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)

I has been identified for one times the crop removal rate of phosphorus (for operations within the RMs of Hanover and La Broquerie)

Sheetr'Oparation Type	Storage Type	Volatilization Numbers	Animal Numbers		Weight Out Ib	Ave Weight Ib	Days on Feed	Cycles per Year	Excreted Per Sheep Place kg/yr	N Excreted Per Flock kglyr	Adjusted for Loss N kgYr	N Excreted per Flock adjusted for Loss Bollockyr	P205 Excreted Per Flock Ib/flock/yr
Ewes	Field Storage	40%	4000	120	170	145	385	1	10.80	43204	25922	62159	15
Rentscement Ewen	Field Storage	40%	0	46	80	63	210	-	2.68	0	0	0	
Rame	Field Storace	40%	55	100	200	150	365	-	11.17	615	369	813	
Lambs	Field Storage	40%	2150	8	45	27	395	-	1.87	4244	2548	5615	
Ewes plus assoc livestock	Field Storage	40%	0	20	na	24	2	ua	13.09	0	0	0	0
reder	Field Storage	40%	0	45	100	73	365	-	5.40	0	0	0	0

\*Lambs are generally weaned at 50 days, and and finished on feed to market within about 160 days.

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
	Bred Heifers	0	0
	Calves	0	0
	Bulls	0	0
	Cows, plus associated livestock	0	0
	Feedlot Cattle - grain based diet	0	0
	Pasture Cattle	0	0
	Backgrounders	0	0
Dairy	Lactating cow	0	0
un y	Dry cow	0	0
	Calf, 0-3 months	0	0
	Celf, 4-13 months	0	0
	Replacements, >13 months	0	0
	Mature Cows, plus assoc livestock	0	0
Sheep	Ewes	57159	34084
Sheep	Replacement Ewes	0	0
	Rams	813	485
	Lambs	5615	3348
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
Chickens	Broilers	0	0
Chickens	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
laworr	Layer Pullets	0	0
Layers	Layer Hens	0	0
	Breeder Pullets	0	0
	Breeder Hens	0	0
Turkeys	Broiler Hens (0-9 wks)	0	0
uncys	Hens (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	0	0
	Light Toms (0-12 wks)	0	0
	Toms (0-13 wks)	0	0
		0	0
	Heavy Toms (0-15 wks) Breeding Hen Growers (0-30 wks)	0	0
		0	0
	Breeding Hens (30-60 wks)	0	0
	Breeding Tom Grower (0-18 wks)	0	0
	Breeding Tom Grower (0-30 wks) Breeding Tom (30-60 wks)	0	0

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



	Removal	bvai	Uptake					Ren	Removal	Uptake
Crop	P205	Z	Z	Units	Yield	Units	Acreage	P205	Z	z
								(ql)	(Ib)	(qi)
Alfalfa	13.8	58	58	lb/ton	2.923	ton/ac	400	16135	67814	67814
Barley Grain	0.42	0.97	1.39	Ib/bu		bu/ac				•
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac				
Canala	1.04	1.93	3.19	Ib/bu		bu/ac				
Corn Grain	0.44	0.97	1.53	lb/bu	88	bu/ac	320	12390	27315	43085
Corn Silage	12.7	31.2	31.2	Ib/ton	3.458	tons/ac	320	14053	34525	34525
Dry Edible Beans	1.39	4.17		lb/cwt		cwt/ac				
Fababeans	1.79	5.02	8.4	Ib/cwt		cwt/ac				
Flax	0.65	E1.2	2.88	Ib/bu		bu/ac				
Grass Hay	10	34.2	34.2	Ib/ton	1.871	tons/ac	192	3592	12286	12286
Lentils	1.03	3.39	5.08	Ib/cwt		cwt/ac				
Dats	0.26	0.62	1.07	nq/qi		bu/ac				
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac				1 t
Peas	0.69	2.34	3.06	Ib/bu		bu/ac				- 11 - W
Potatoes	60.0	0.32	0.57	lb/cwt		cwt/ac			•	
Rye	0.45	1.06	1.67	Ib/bu		bu/ac				
Soybeans	0.84	3.87	5.2	Ib/bu	27.7	bu/ac	200	4654	21440	28808
Sunflower	1.1	2.8		Ib/cwt		cwt/ac				
Wheat - Spring	0.59	1.5	2.11	Ib/bu		bu/ac			~ ~ ~ ~ ~ ~ ~	11.680
Wheat - Winter	0.51	1.04	1.35	nq/qı		bu/ac				
						Sub Total	1432	50825	163379	186517
					Rem	Removal (Ib/ac)		35.5	114	130
					Addit	Additional Acres	230			
			Total Si	Total Suitable Acres Available for Manure	s Available	for Manure	1662		1 1 1	

MASC yields in Hanover for soil zones H and I

Nutrients Excreted	lbs
Nitrogen	63587
P2O5	37917
Crop Nutrient Use	lb/ac
Nitrogen Uptake	130.2
P2O5 Removal	35.5
Land Base Requirements	acres
Acres Available	1662
Acres for Nitrogen Uptake	488
Acres for 2 x P2O5 Removal	534
Acres for 1 x P2O5 Removal	1068

#### 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.

X I acknowledge that up to <u>1068 acres</u> acres/hectares (one times crop removal from table above) may be required for the long term environmental sustainability of the operation.

#### 10.0 Mortalities (Dead Animal) Disposal

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

Type of disposal:

rendering
 composting
 incineration (in approved incinerator only)

#### **Mass Mortalities**

A plan for mass mortalities is in place.

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

Given the soil properties and groundwater conditions at the site, burial of mass mortalities is not advisable. In the event of mass mortalities, dead stock will be hauled to a suitable landfill identified by Manitoba Conservation.

11.0 Project Site Description: Land Use Planning Considerations For assistance contact your Community and Regional Planning Regional Office.

#### **Development Plan and Zoning Bylaw**

The Planning District or Municipal Development Plan and Zoning By-law adopted under <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	no. 2170
Land use designation of project site	Rural Area
Livestock operation policies – quote supportive policy numbers	2.3 - Goal 9
Other Development Plan policies – quote supportive policy numbers	3.2.4
Non-supportive Development Plan policies	and the states of the second states of the second

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

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

#### **Zoning By-law**

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

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

	Project site dimensions	Minimum zoning bylaw site requirements
Minimum site area	80 ac	160 ac unless existing
Minimum site width	1320 ft	1000 ft
Minimum front yard	~ 500 ft	164 ft
Minimum side and rear yard	328 ft	164 ft

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.

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Separation Distances (Zoning Bylaw or Provincial Planning Regulation)

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

Indicate the distance from:

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

to the following land use features (if applicable)	Indicate r separation required i zoning by Provincial Regulation (Check ap box(es)	n distance n the law or l Planning n	If land use feature is less than the minimum separation distance		
	<b>a</b> . <b>X</b> b.	X c. d.	Provide actual distance	Provide location or name of feature (e.g. Red River)	
Residence/ dwelling	820 ft	820 ft	~ 944 ft	W1/2 NW21-5-6E	
Designated area (non- agricultural)	4364 ft	4364 ft	~ 5000 ft	Sarto, MB	
Surface water	328 ft	328 ft	328 ft	Tourond Creek	
Surface watercourse	328 ft	328 ft	328 ft Tourond Creek		
Crown land				none in vicinity	
Wildlife Management Area				none in vicinity	
Livestock operation			~944 ft	Beef operation @ W 1/2 NW21-5-6E	
Other significant features/land uses		,			

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

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

In cases where minimum separation distances are not stated in the Zoning By-law or Development Plan, the minimum separation distances in the <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.

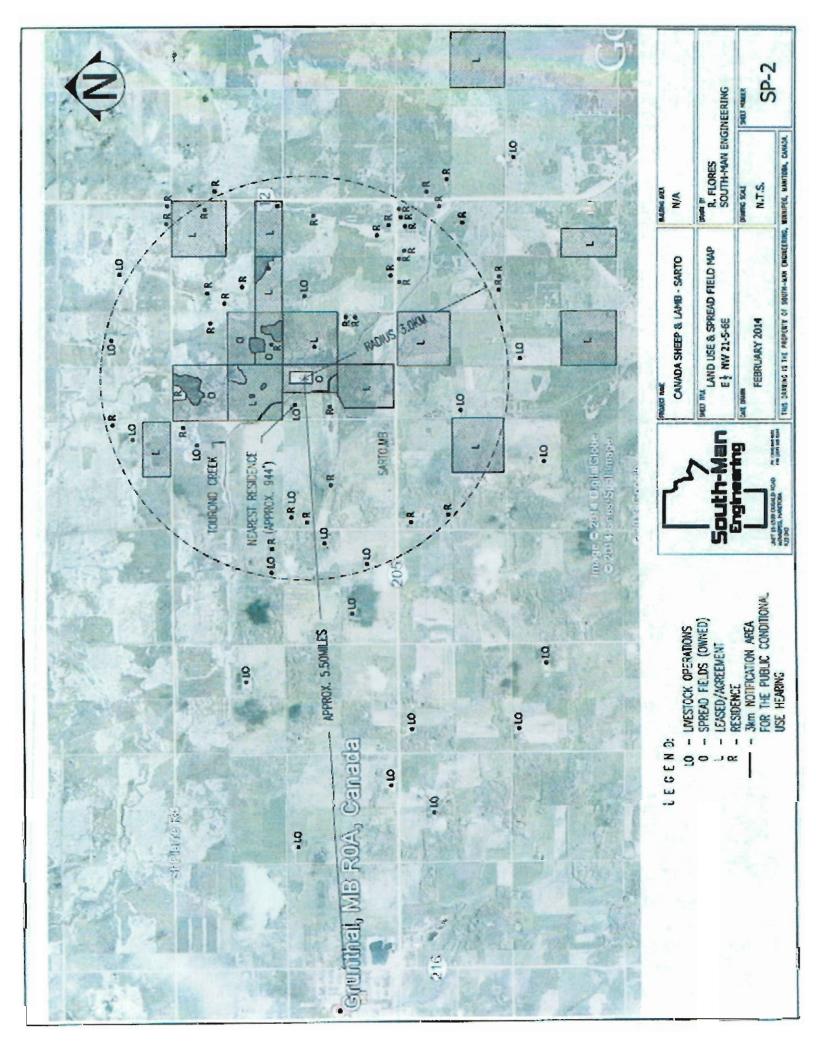
Feature	Structure	Minimum setback distance required	Provide actual distance (m)	Provide location or name of feature (e.g. Red River)
	Manure storage facility	100 m	n/a	
Surface watercourse,	Field storage	100 m	> 100 m	locations vary yearly
sinkhole, spring, or well	Composing site	100 m	200 m	Tourond Creek
	Confined livestock area	100 m	100 m	Tourond Creek
	Manure storage facility	100 m	n/a	
Property Line	Composing site	100 m	185 m	West property line
	Confined livestock area	100 m	100 m	West property line

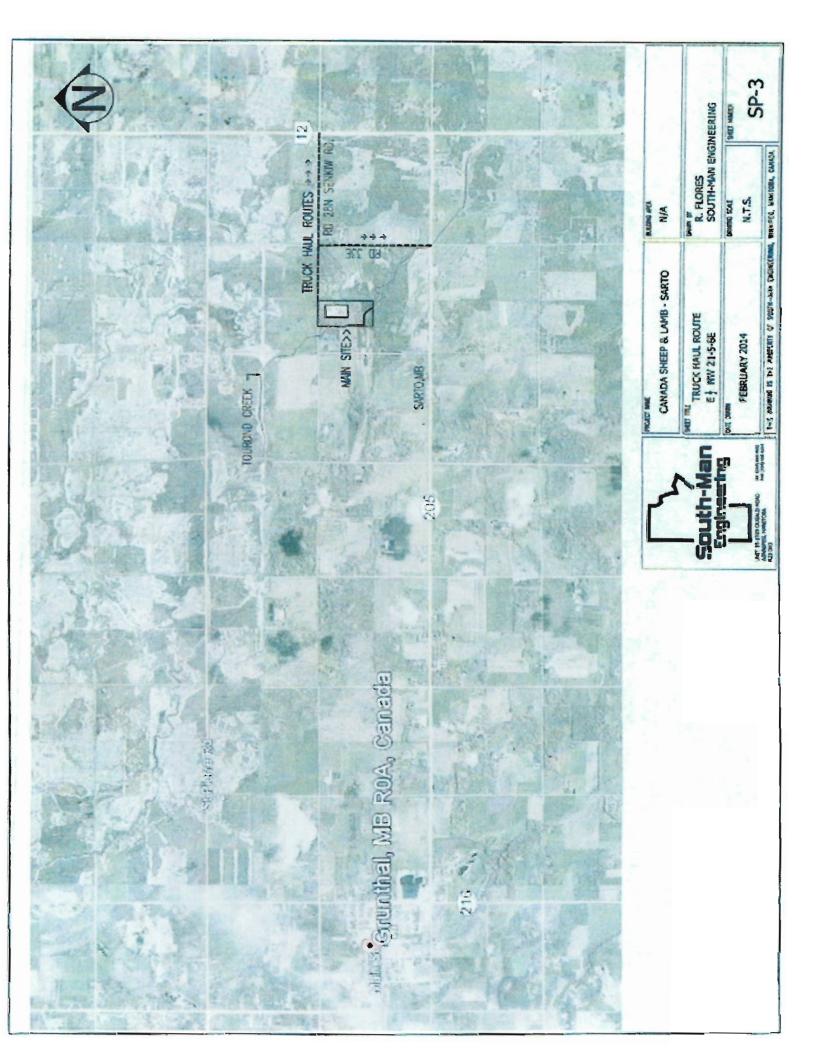
Setback Distances (Livestock Manure and Mortalities Management Regulation) Using the following table to indicate the distance from:

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

23

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).







Peter Grieger <peter.southmaneng@gmail.com>

## Canada Sheep & Lamb Farms Ltd.

Fri, Jun 27, 2014 at 1:19 PM

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

Peter

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

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

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

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

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

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

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

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

-----Original Message-----From: Sent: June-25-14 8:13 PM To: Friesen, Chris (CWS) Subject: WWW Form Submission

Below is the result of your feedback form. It was submitted by WWW Information Request () on Wednesday, June 25, 2014 at 20:12:51

27/06/2014 2:07 PL

DocumentID: Manitoba\_Conservation

Project Title: Canada Sheep & Lamb Farms Ltd.

Date Needed: June 27, 2014

Name: Peter Grieger

Company/Organization: South-Man Engineering

Address: Unit 15 - 1599 Dugald Road

**City: Winnipeg** 

Province/State: Manitoba

Phone: (204) 668-9652

Fax (204) 668-9204

Email: peter@southmaneng.com

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

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

Format Requested: Microsoft Word Document preferred via email.

Location: Location E 1/2 of NW 21-5-6E in the RM of Hanover.

action: Submit

# 12.0 Truck Haul Routes and Access Points ?

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

Vehicle Type	Estimated Average Number of times per day accessing		Access from PTH/PR onto site will mainly require a Left or Right Hand Turn Please check one				Access onto PTH/PR from site will mainly require a Left or Right Hand Turn Please check one			
	Provincial Trunk Highway (PTH)	Provincial Road (PR)	Provincial Trunk Highway (PTH)		Provincial Road (PR)		Provincial Trunk Highway (PTH)		Provincial Road (PR)	
			LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
Truck				1				1.0	11	
Tractor Trailer		1				x	1		X	2
Other - Specify (passenger vehicles)		6			x	x			x	x

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

For help with mapping, contact your <u>Community and Regional Planning Regional</u> Office.

X 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: <a href="https://www.gov.mb.ca/conservation/cdc">www.gov.mb.ca/conservation/cdc</a>

Were rare species identified in the Conservation Data Centre Report?

Yes
No

#### 14.0 Supporting Documents

Check off the supporting documents included in this submission:

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

#### 15.0 Declaration

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

Date: Oct 1/14

Signature: A.