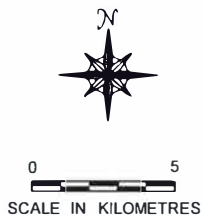


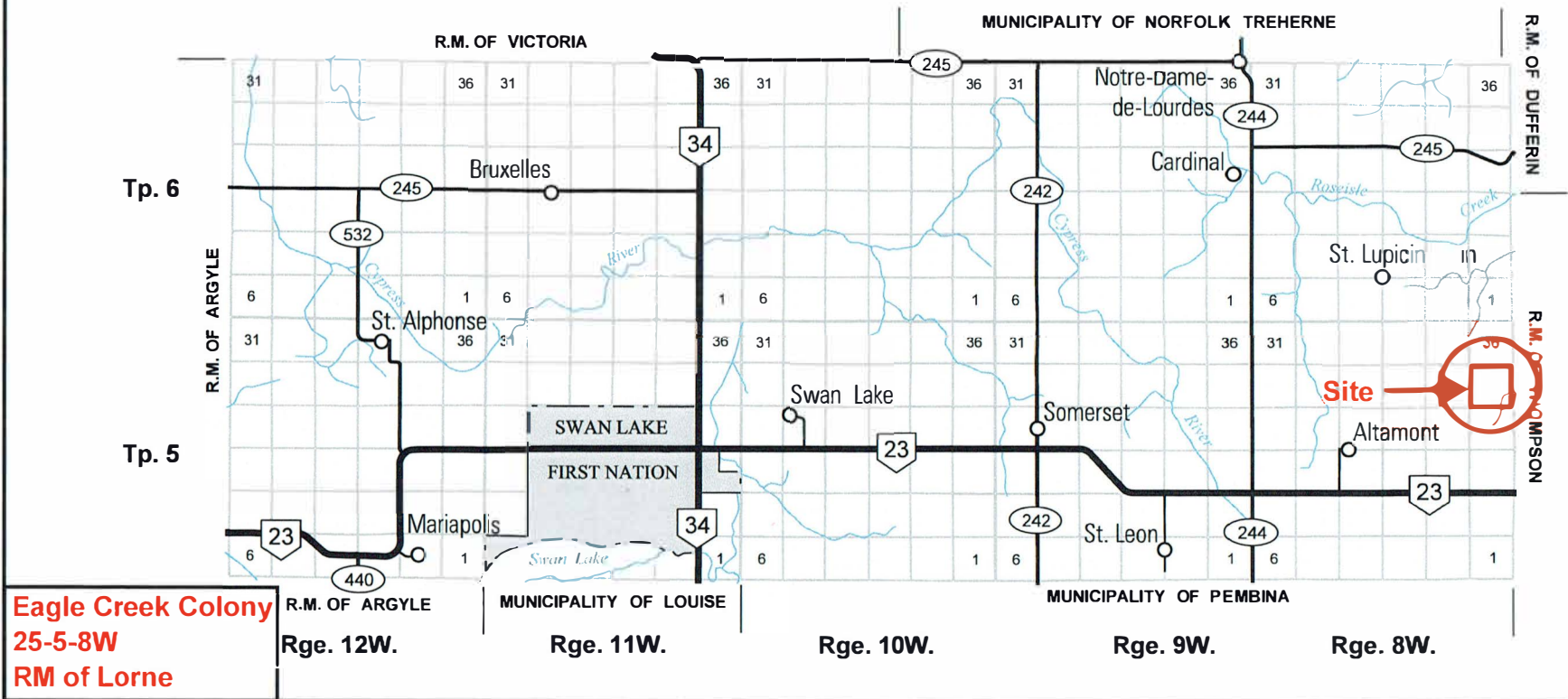
# MUNICIPALITY OF LORNE



PROVINCE OF MANITOBA  
INFRASTRUCTURE  
HIGHWAY PLANNING AND DESIGN BRANCH  
GEOGRAPHIC & RECORDS MANAGEMENT SECTION  
WINNIPEG  
JANUARY 1, 2015

### LEGEND

- PROVINCIAL TRUNK HIGHWAYS ..... 
- PROVINCIAL ROADS ..... 
- ACCESS ROADS ..... 

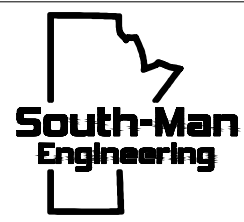


**Eagle Creek Colony**  
**25-5-8W**  
**RM of Lorne**



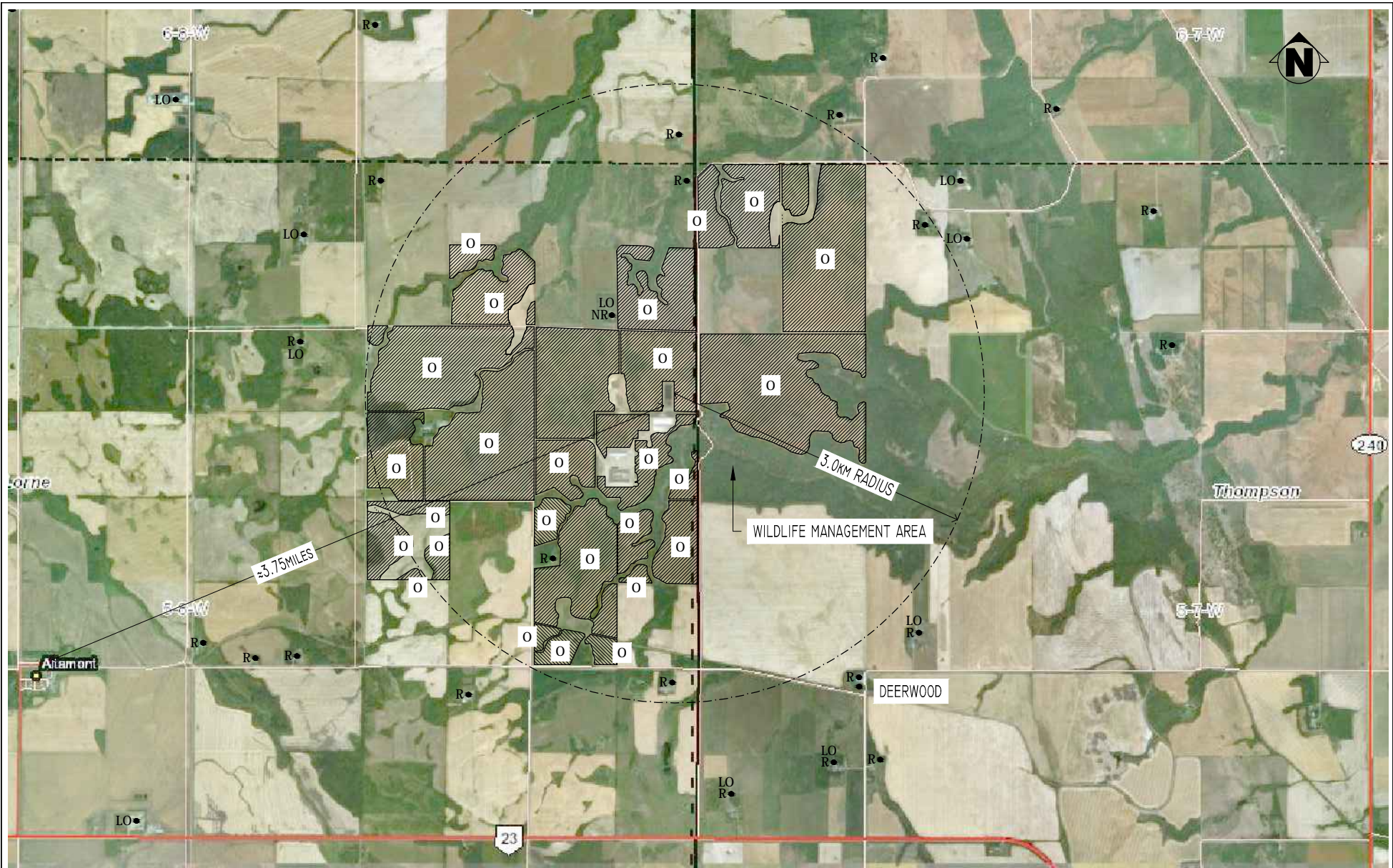
<< APPROX. 3.73MI TO ALTAMONT, MB

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS



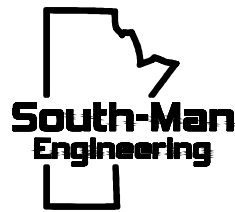
8-851 Lagimodiere Blvd. | Winnipeg, Manitoba | R2T 3K4  
PH. (204) 668-9652 | FAX (204) 668-9204

PROJECT NAME <b>EAGLE CREEK COLONY</b>		BUILDING AREA N/A	
SHEET TITLE <b>SITE PLAN</b>		DRAWN BY <b>R. FLORES SOUTH-MAN ENGINEERING</b>	
DATE DRAWN <b>DECEMBER 2018</b>		DRAWING SCALE <b>SCALED TO FIT</b>	SHEET NUMBER <b>SP-1</b>
THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.			



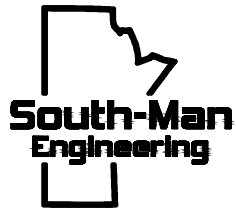
**LEGEND:**

- LO - LIVESTOCK OPERATIONS
- A - SPREAD FIELDS (AGREEMENT)
- R - RESIDENCE
- RA - RESIDENTIAL AREA
- NR - NEAREST NEIGHBOR (APPROX. 2,585')
- 3KM NOTIFICATION AREA FOR THE PUBLIC CONDITIONAL USE HEARING



8-851 Lagimodiere Blvd. | Winnipeg, Manitoba | R2T 5K4  
 PH. (204) 668-9652 | FAX (204) 668-9204

PROJECT NAME <b>EAGLE CREEK COLONY</b>		BUILDING AREA N/A	
SHEET TITLE <b>LAND USE &amp; SPREAD FIELD MAP</b>		DRAWN BY <b>R. FLORES SOUTH-MAN ENGINEERING</b>	
DATE DRAWN <b>DECEMBER 2018</b>		DRAWING SCALE <b>SCALED TO FIT</b>	SHEET NUMBER <b>SP-2</b>
THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.			



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 PH. (204) 668-9652 | FAX (204) 668-9204

PROJECT NAME <b>EAGLE CREEK COLONY</b>		BUILDING AREA N/A	
SHEET TITLE <b>TRUCK HAUL ROUTE</b>		DRAWN BY <b>R. FLORES SOUTH-MAN ENGINEERING</b>	
DATE DRAWN <b>DECEMBER 2018</b>		DRAWING SCALE <b>SCALED TO FIT</b>	SHEET NUMBER <b>SP-3</b>
THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.			

# Animal Units Calculator

A	B	C	Current Operation		Proposed Operation	
			D	E	F	G
Operation Type	Animal Categories	Animal Units per Head	Current Number of Animals <sup>1</sup>	Current Animal Units	Proposed Number of Animals <sup>2</sup>	Proposed Number of Animal Units
Dairy <sup>3</sup>	Mature cows (lactating and dry) including associated livestock	2		-		-
	Mature cows (lactating and dry)	1.35		-		-
	Heifers (0 to 3 months)	0.16		-		-
	Heifers (4 to 13 months)	0.41		-		-
	Heifers (> 13 months)	0.87		-		-
	Bulls	1.35		-		-
Beef	Veal calves	0.13		-		-
	Beef cows including associated livestock	1.25		-		-
	Backgrounder	0.5		-		-
	Summer pasture / replacement heifers	0.625		-		-
Pigs	Feeder cattle	0.769		-		-
	Sows - farrow to finish (234-254 lbs)	1.25	1,000	1,250	1,000	1,250
	Sows - farrow to weanling (up to 11 lbs)	0.25		-		-
	Sows - farrow to nursery (51 lbs)	0.313		-		-
	Boars (artificial insemination units)	0.2		-		-
	Weanlings, Nursery (11-51 lbs)	0.033		-		-
Chickens	Growers / Finishers (51-249 lbs)	0.143		-		-
	Broilers	0.005		-	75,000	375
	Roasters	0.01		-		-
	Layers	0.0083		-		-
	Pullets	0.0033		-		-
	Broiler breeder pullets	0.0033		-		-
Turkeys	Broiler breeder hens	0.01		-		-
	Broilers	0.01		-		-
	Heavy Toms	0.02		-		-
Horses	Heavy Hens	0.01		-		-
	Mares	1.333		-		-
Sheep	Ewes	0.2		-		-
	Feeder lambs	0.063		-		-
Other Livestock	Type:			-		-
	Type:			-		-
Total Current:				1,250	Total Proposed:	1,625

**Footnotes:**

<sup>1</sup> Enter the current number of animals on the farm based on the operation's capacity (animal places) or previous Conditional Use Approval.

<sup>2</sup> Enter the total number of animals associated with the operation post construction or expansion.

<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. Bulls and veal calves are always calculated separately.

[For all other livestock or operation types please inquire with the Manitoba Agriculture Contacts](#)



## Well Log Data

LOCATION: 25-5-8W

Well\_PID: 144204  
Owner: EVERGREEN COLONY  
Driller: TURTLE MOUNTAIN DRILLING LTD.  
Well Name:  
Well Use: TEST WELL  
Water Use:  
UTMX: 542049  
UTMY: 5474438  
Accuracy XY: 4 FAIR [350M-1KM] [WITHIN SECTION]  
UTMZ: 436  
Accuracy Z: 4 FAIR [5-10M]  
Date Completed: 2007 Jan 01

### WELL LOG

From (ft.)	To (ft.)	Log
0	1.0	OVERLAY
1.0	12.0	SOFT SHALE
12.0	72.0	HARD SHALE
72.0	350.0	SOFT GREY SHALE

No construction data for this well.

Top of Casing: 0.0

No pump test data for this well.

### REMARKS

BOX 34 SOMERSET

---

LOCATION: SE25-5-8W

Well\_PID: 129448  
Owner: EVERGREEN COLONY - NEW SITE  
Driller: Watkins & Argue Construction Co.  
Well Name: TH-1(04)  
Well Use: TEST WELL  
Water Use:  
UTMX: 542476.681  
UTMY: 5474060.02  
Accuracy XY:  
UTMZ:  
Accuracy Z:  
Date Completed: 2004 Jul 16

WELL LOG

From (ft.)	To (ft.)	Log
0	9.0	BROWN TILL
9.0	18.0	VERY SHALY BROWN TILL
18.0	36.0	VERY SHALY GREY TILL
36.0	60.0	ODANAH SHALE

No construction data for this well.

Top of Casing: 0.0

No pump test data for this well.

REMARKS

LOCATED 160M EAST OF 1/2 MILE AND 150M N OF EW ROAD ALLOWANCE.

---

LOCATION: SW25-5-8W

Well\_PID: 31427  
Owner: W SWEENEY  
Driller: HECTOR'S WELL DRILLING  
Well Name:  
Well Use: PRODUCTION  
Water Use: Livestock  
UTMX: 541635.705  
UTMY: 5474039.35  
Accuracy XY: UNKNOWN  
UTMZ:  
Accuracy Z:  
Date Completed: 1977 Aug 11

WELL LOG

From (ft.)	To (ft.)	Log
0	32.0	BROWN SAND
32.0	51.0	BLUE CLAY
51.0	72.0	TILL
72.0	85.9	GRAVEL
85.9	101.9	TILL

WELL CONSTRUCTION

From (ft.)	To (ft.)	Casing Type	Inside Dia. (in)	Outside Dia. (in)	Slot Size (in)	Type	Material
0	65.0	casing	6.00			INSERT	
0	82.4	casing		4.00			PLASTIC
81.9	83.9	perforations		4.00		SL. PIPE	ABS

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date:  
Pumping Rate: 20.0 Imp. gallons/minute  
Water level before pumping: 8.0 ft. below ground  
Pumping level at end of test: ?? ft. below ground  
Test duration: 4 hours, minutes  
Water temperature: ?? degrees F

---



LOCATION: SW25-5-8W

Well\_PID: 129449  
Owner: EVERGREEN COLONY - NEW SITE  
Driller: Watkins & Argue Construction Co.  
Well Name: TH-2(04)  
Well Use: TEST WELL  
Water Use:  
UTMX: 541635.705  
UTMY: 5474039.35  
Accuracy XY:  
UTMZ:  
Accuracy Z:  
Date Completed: 2004 Jul 16

WELL LOG

From (ft.)	To (ft.)	Log
0	11.0	TILL, YELLOW-BROWN
11.0	18.0	TILL, BROWN, SHALY
18.0	21.0	GREY TILL
21.0	29.0	BLACK CLAY
29.0	45.0	VERY CLAYEY TILL, GREY, THIN GRAVEL AT 41, 45-51 GRAVELLY, 51-53 SANDY BROWN CLAYEY TILL
45.0	58.0	BROWN CLAYEY TILL
58.0	118.0	LIGHT GREY CLAY, PURE, TRACE SAND @ 85, STONE @ 94
118.0	155.0	SHALY TILL, ALL SHALE RUBBLE
155.0	156.0	BOULDER
156.0	159.0	GRAVELLY
159.0	171.0	HARD SHALY RUBBLE TILL, ROUGH
171.0	180.0	FIRM PURE CLAY, SHALE

No construction data for this well.

Top of Casing: 0.0

No pump test data for this well.

REMARKS

LOCATED 0.3KM EAST OF NS ROAD AND 0.2KM N OF EW ROAD ALLOWANCE.

---

LOCATION: SW25-5-8W

Well\_PID: 65493  
Owner: MIAMI COLONY  
Driller: Watkins & Argue Construction Co.  
Well Name: TH-22  
Well Use: TEST WELL  
Water Use:  
UTMX: 541635.705  
UTMY: 5474039.35  
Accuracy XY: UNKNOWN  
UTMZ:  
Accuracy Z:  
Date Completed: 1989 Jul 11

WELL LOG

From (ft.)	To (ft.)	Log
0	6.0	BROWN TILL
6.0	33.0	OXIDIZED SHALE AND CLAY
33.0	40.0	BLUE CLAY AND SHALE
40.0	60.0	HARD BLUE SHALE

No construction data for this well.

Top of Casing: ft. below ground

No pump test data for this well.

REMARKS

N. SIDE SECTION LINE

---

LOCATION: SW25-5-8W

Well\_PID: 65494  
Owner: MIAMI COLONY  
Driller: Watkins & Argue Construction Co.  
Well Name: TH-23  
Well Use: TEST WELL  
Water Use:  
UTMX: 541635.705  
UTMY: 5474039.35  
Accuracy XY: UNKNOWN  
UTMZ:  
Accuracy Z:  
Date Completed: 1989 Jul 11

WELL LOG

From (ft.)	To (ft.)	Log
0	21.0	BROWN TILL
21.0	42.0	GREY CLAY
42.0	59.0	HARD SHALE
59.0	60.0	MILLWOOD SHALE

No construction data for this well.

Top of Casing: ft. below ground

No pump test data for this well.

REMARKS

3/10 MI. N. OF TH.22

---

LOCATION: SW25-5-8W

Well\_PID: 65495  
Owner: MIAMI COLONY  
Driller: Watkins & Argue Construction Co.  
Well Name: TH-24  
Well Use: TEST WELL  
Water Use:  
UTMX: 541635.705  
UTMY: 5474039.35  
Accuracy XY: UNKNOWN  
UTMZ:  
Accuracy Z:  
Date Completed: 1989 Jul 11

WELL LOG

From (ft.)	To (ft.)	Log
0	24.0	BROWN TILL
24.0	25.0	BLUE CLAY
25.0	59.5	HARD BLUE SHALE
59.5	60.0	MILLWOOD SHALE

No construction data for this well.

Top of Casing: ft. below ground

No pump test data for this well.

REMARKS

2/10 MI. N. OF TH.23

---

# Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	IG/day per animal in summer	IG/day (Imperial gallons per day)
<b>Beef/Dairy/Bison *</b>				
Feeder/heifer/steer (600 lb.)		5	9	-
Feeder (900 lb.)		7	12	-
Feeder (1250 lb.)		10	15	-
Cow/calf pair		12	15	-
Dry milking cow **		10	12	-
Lactating cow **		25	30	-
Bison		8	10	-
<b>Horses</b>				
Horses		8	11	-
<b>Hogs</b>				
Sow (Farrow/wean)	184	6.5		1,196
Dry Sow/Boar	1,000	4		4,000
Feeder	7,450	3		22,350
Nursery (33 lb.)	2,900	2		5,800
<b>Chickens</b>				
Broilers	75,000	0.035		2,625
Roasters/Pullets		0.04		-
Layers		0.055		-
Breeders		0.07		-
<b>Turkeys</b>				
Turkey Growers		0.13		-
Turkey Heavies		0.16		-
<b>Sheep/Goats</b>				
Sheep/Goats		2		-
Ewes/Does		3		-
Lambs/Kids (90 lb.)		1.6		-
<b>TOTAL (IG/day)</b>				<b>35,971</b>
*** <b>TOTAL with 10% wash water</b>				<b>39,568</b>

\* For beef, dairy, bison and horse enterprises:  
Use summer numbers if appropriate for the operation. Otherwise base projections on winter values.  
Always use the greater of the two values.

\*\* For intensive Dairy operations, please use the Dairy Barn Water Requirement Estimator found on separate sheet.

Enter this number on page 7 of Application Form.

\*\*\* 10% of the total is added to allow for wash water

Unit Conversions		
Total per day	Total per year	Unit
39,568	14,442,357	IG
163,524	59,686,321	litres
0.164	60	cubic decametres (dam <sup>3</sup> )

Enter this number on page 7 of Application Form.

Conversion Factor: 1 IGPM = 4.546 l/m

### Other consumption:

Normal household consumption:  
60-75 IG/day per person or  
(272-340 l/day/person)

Animal Type (A)	Animal Sub-type (B)	Daily Manure Production				Production Period <sup>2</sup> (Days) (G)	Number of Animals <sup>3</sup> (Capacity) (H)	Total Manure Volume (ft <sup>3</sup> ) (F/GxH)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)
		References (C)	Manure Type (D)	Default Manure Production (ft <sup>3</sup> /animal/day) (E)	Operation Manure Production <sup>1</sup> (ft <sup>3</sup> /animal/day) (F)				
Animal Type	Type of Operation		Default Manure Production (ft <sup>3</sup> /year/bird space)	Operation Manure Production <sup>1</sup> (ft <sup>3</sup> /year/bird space)	Production Period <sup>2</sup> (Days)	Number of Birds <sup>3</sup> (Capacity)	Total Manure Volume (ft <sup>3</sup> ) (F/365xGxH)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)	
Dairy (milking cows <sup>4</sup> and associated livestock)	Free Stall		Semi-Solid <sup>5</sup>	3.5				0.0	
			Solid	3.4					
			Liquid <sup>5</sup>	3.5				0.0	
			Semi-Solid <sup>5</sup>	3.6				0.0	
			Solid	3.5					
			Liquid <sup>5</sup>	3.6				0.0	
Beef	Loose Housing		Solid	3.0					
	Milking Parlour Manure and Washwater		Liquid	0.5					
	Beef cows including associated livestock		Solid	1.2					
	Backgrounder (200 day)		Solid	0.73					
	Summer pasture / replacement heifers		Solid	0.85					
	Feeder cattle		Solid	1.1					
Pigs	Sows - farrow to finish (234 - 254 lbs)		Liquid	2.3	2.3	365.00	1,000	5,230,085.0	
	Sows - farrow to wean (up to 11 lbs)		Liquid	0.8				0.0	
	Sows - farrow to nursery (51 lbs)		Liquid	1				0.0	
	Weanlings, Nursery (11 - 51 lbs)		Liquid	0.1				0.0	
	Grower / Finisher (51 - 249 lbs)		Liquid	0.25				0.0	
								839,500.00	
Chickens	Broilers - floor <sup>6</sup>			1.23		365	75,000	92,250	
	Broiler breeder hens <sup>7</sup>			2.3					
	Broiler breeder pullets <sup>6</sup>			0.99					
	Roasters - floor <sup>6</sup>			1.16					
	Layers - cage <sup>8</sup>			2.33					
	Layers - floor <sup>7</sup>			1.68				0.0	
	Layers - solid pack <sup>9</sup>								
	Pullets - cage <sup>8</sup>			0.71					
	Pullets - floor <sup>6</sup>			0.75				0.0	
	Pullets - solid pack <sup>9</sup>								
	Broilers <sup>6</sup>			2.83					
	Heavy toms <sup>6</sup>			5.58					
Heavy hens <sup>6</sup>			3.32						
Turkeys									

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

**Instructions and footnotes:**

- <sup>1</sup> ENTER the manure production estimate for your operation. If no estimate is available, use the default value provided in column E. References for default daily and yearly manure production are provided in column C.
- <sup>2</sup> ENTER the number of days worth of manure that will be produced. For earthen manure storage facilities the minimum storage requirement is 400 days. For steel and concrete manure storage facilities the minimum storage requirement is 300 days.
- <sup>3</sup> ENTER the total number of animals or birds that the operation can hold (e.g. barn or feedlot capacity).
- <sup>4</sup> Milking cows includes all lactating and dry cows.
- <sup>5</sup> Default manure production estimates for semi-solid and liquid dairy manure include manure and washwater from the milking parlour.
- <sup>6</sup> 2 inches of wood shavings or 4 inches of straw placed on floor. Manure and litter removed from barn at 25% moisture content, with a density of 20 lb/ft<sup>3</sup>.
- <sup>7</sup> One-third litter floor, two-thirds slatted floor. Manure and litter removed from barn at 40% moisture content, with a density of 25 lb/ft<sup>3</sup>.
- <sup>8</sup> Manure removed from barn at 90% moisture content with a density of 59 lb/ft<sup>3</sup>.
- <sup>9</sup> Poultry operations using litter (solid pack) must provide an estimate of yearly manure production

CELL	Existing Manure Storage Facility Dimensions						Storage Capacity (days)
	Width	Length	Depth	Height (Above Grade)	Slope (H:L)		
					Inside	Outside	
Primary	228 ft	206 ft	14 ft	6.25 ft	3:1	5:1	157
Secondary	228 ft	495 ft	12 ft	10.75 ft	3:1	5:1	382
Tertiary	ft	ft	ft	ft			
Circular Tank		Diameter	Height	Depth			
		ft	ft	ft			

Permit/Registration # \_\_\_\_\_ LM-776 \_\_\_\_\_

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



**MANURE APPLICATION FIELD CHARACTERISTICS TABLE**

Field	A Legal Description	B Rural Municipality	C O/C/L/A	D Total Acreage	E Setbacks, including features	F Net Acreage for Manure Application	G Agriculture Capability Class and Subclass	H Soil Phosphorus (ppm Olsen P) 0-6 inches	I Development Plan Designation	J Zoning
1	NW23-5-8W	Lorne	O	145	3m, property line, shrubs, water	81	2T, 2W-2T, 3T, 6T	29	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
2	SW26-5-8W	Lorne	O	90	3m, property line, shrubs	88	2X	16	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
3	SE26-5-8W	Lorne	O	255	3m, property line, water	254	2X, 2W-2T, 2T	22	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
4	NH26-5-8W	Lorne	O	245	3m, property line, water	234	2X, 2W-2T, 2T, 6T	25	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
5	SE35-5-8W	Lorne	O	130	3m, property line, water	116	2W-2T, 2T, 2X-5M, 6T	22	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
6	NW25-5-8W	Lorne	O	185	No feature	185	2W, 4T	19	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
7	SW25-5-8W	Lorne	O	70	3m, property line, water	69	2W-2T, 2T-2W	20	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
8	NE25-5-8W	Lorne	O	140	3m, property line	132	2W, 2T-2W	26	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
9	SE25-5-8W	Lorne	O	80	No feature	80	2T, 2T-2W, 6T	13	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
10	WH24-5-8W	Lorne	O	190	3m, property line, water	185	2W-2T, 2T-2W, 6T	19	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
11	NE24-5-8W	Lorne	O	100	3m, property line, water	86	2T, 2T-2W, 6T	14	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
12	SE36-5-8W	Lorne	O	135	3m, property line, water	129	2W, 3T, 2T-2W, 6T	19	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
13	NH30-5-7W	Thompson	O	350	No feature	350	2X, 1-2X, 6T	22	BYLAW #1-2014: Agricultural Policy Area	BYLAW #1682: AG
14	NW31-5-7W	Thompson	O	150	3m, property line, water	138	2T, 3T, 6T	12	BYLAW #1-2014: Agricultural Policy Area	BYLAW #3008: AG
15	EH31-5-7W	Thompson	O	315	3m, property line, water	298	2T, 3T, 2W, 6T	38	BYLAW #1-2014: Agricultural Policy Area	BYLAW #3008: AG
16	WH24-5-8W	Lorne	O	77	3m, property line, water	75	2W-2T, 2T-2W	8	BYLAW #3-3003: Rural Policy Area	BYLAW #1682: AG
17										
18										
19										
20										

**Note: Areas of Class 6T (slopes >30-45%) have been identified and excluded from the spread field**

2,500

**Total Net Acreage for Manure Application:**

- A. Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish).
- B. Identify the Rural Municipality in which the parcel is located.
- C. Indicate how the land has been secured for manure application: O – Own / C-Crown / L – Lease / A – Agreement. Multiple designations may be used as appropriate (ex. C/A for Crown lands that are under a spread agreement with the producer that holds the agricultural Crown land lease).
- D. Enter the total acreage for the parcel.
- E. Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (ex. 8m, Order 3 drain).
- F. Enter the net acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils.
- G. Enter the agriculture capability class and subclass ratings for the acreage available for manure application.
- H. Provide soil test results for phosphorus in ppm Olsen P for soil samples taken at the 0-6 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing laboratory.
- I. Indicate the Development Plan and its by-law number in addition to the map designation for each field (ex. By-law #1/2008: AG).
- J. Indicate the Zoning By-law and its by-law number in addition to the zoning for each field (ex. By-law 12/2009: AG 80).

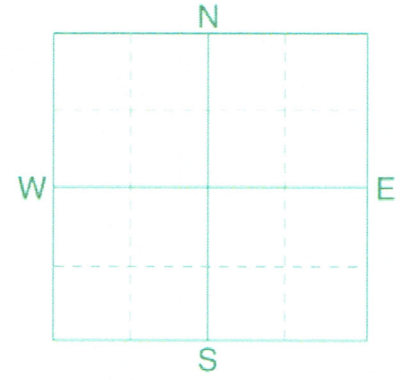




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### SOIL TEST REPORT

FIELD ID **NW 23-5-8W**  
 SAMPLE ID **12**  
 FIELD NAME **Bints Turner**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **23** QTR **NW** ACRES **145**  
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2343336** BOX # **2076**  
 LAB # **NW57825**

Date Sampled **08/30/2018**

Date Received **09/05/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	Barley		Barley		Barley			
	0-6" 27 lb/ac 6-24" 90 lb/ac	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24" 117 lb/ac	*****	80 BU		90 BU		100 BU			
		*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
		*****	Band		Band		Band			
		*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate		*****	N	10	N	23	N	38		
Phosphorus	Olsen 29 ppm	*****	P <sub>2</sub> O <sub>5</sub>	15	P <sub>2</sub> O <sub>5</sub>	15	P <sub>2</sub> O <sub>5</sub>	15		
Potassium	221 ppm	*****		Band (Starter)*		Band (Starter)*		Band (Starter)*		
Chloride	0-24" 208 lb/ac	*****	K <sub>2</sub> O	10	K <sub>2</sub> O	10	K <sub>2</sub> O	10		
	0-6" 32 lb/ac 6-24" 48 lb/ac	*****		Band (Starter)*		Band (Starter)*		Band (Starter)*		
Sulfur		*****	Cl	0	Cl	0	Cl	0		
Boron	0.9 ppm	*****	S	0	S	0	S	0		
Zinc	3.07 ppm	*****	B	0	B	0	B	0		
Iron	25.4 ppm	*****	Zn	0	Zn	0	Zn	0		
Manganese	3.6 ppm	*****	Fe	0	Fe	0	Fe	0		
Copper	0.82 ppm	*****	Mn	0	Mn	0	Mn	0		
Magnesium	526 ppm	*****	Cu	0	Cu	0	Cu	0		
Calcium	5185 ppm	*****	Mg	0	Mg	0	Mg	0		
Sodium	44 ppm	*****	Lime		Lime		Lime			
Org. Matter	3.3 %	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Carbonate(CCE)	4.2 %	*****				% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 0.43 mmho/cm 6-24" 0.44 mmho/cm	*****	0-6" 7.9 6-24" 8.1		31.1 meq	(65-75) 83.5	(15-20) 14.1	(1-7) 1.8	(0-5) 0.6	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 40 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 42 K2O = 45 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

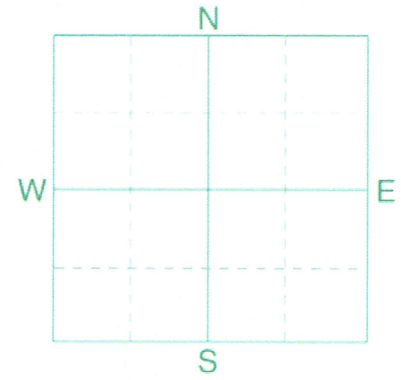
Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 47 K2O = 50 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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## SOIL TEST REPORT

FIELD ID **SW 26-5-8W**  
 SAMPLE ID **9**  
 FIELD NAME **Turner SW**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **26** QTR **SW** ACRES **90**  
 PREV. CROP **Barley**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2341430** BOX # **1738**  
 LAB # **NW52722**

Date Sampled **08/29/2018**

Date Received **08/31/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6"	19 lb/ac				Canola-bu		Canola-bu		Canola-bu				
	6-24"	36 lb/ac	*****			YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	55 lb/ac				40 BU		50 BU		60 BU				
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band		Band		Band				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen	16 ppm	*****			N	85	N	120	N	155			
Potassium		157 ppm	*****			P <sub>2</sub> O <sub>5</sub>	18 Band *	P <sub>2</sub> O <sub>5</sub>	23 Band *	P <sub>2</sub> O <sub>5</sub>	27 Band *			
Chloride	0-24"	144 lb/ac	*****			K <sub>2</sub> O	7 Band *	K <sub>2</sub> O	9 Band *	K <sub>2</sub> O	11 Band *			
	0-6"	46 lb/ac	*****			Cl	Not Available	Cl	Not Available	Cl	Not Available			
Sulfur	6-24"	114 lb/ac	*****			S	10 Band	S	10 Band	S	10 Band			
Boron		0.8 ppm	*****			B	0	B	0	B	0			
Zinc		1.50 ppm	*****			Zn	0	Zn	0	Zn	0			
Iron		23.7 ppm	*****			Fe	0	Fe	0	Fe	0			
Manganese		4.6 ppm	*****			Mn	0	Mn	0	Mn	0			
Copper		0.75 ppm	*****			Cu	0	Cu	0	Cu	0			
Magnesium		532 ppm	*****			Mg	0	Mg	0	Mg	0			
Calcium		4824 ppm	*****			Lime		Lime		Lime				
Sodium		53 ppm	*****											
Org.Matter		3.2 %	*****											
Carbonate(CCE)		2.6 %	*****											
Sol. Salts	0-6"	0.44 mmho/cm	*****			Soil pH	8.0	Cation Exchange Capacity	29.2 meq	% Base Saturation (Typical Range)				
	6-24"	0.4 mmho/cm	*****			6-24"	8.3			% Ca	% Mg	% K	% Na	% H
										(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
										82.6	15.2	1.4	0.8	

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

Crop 1: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

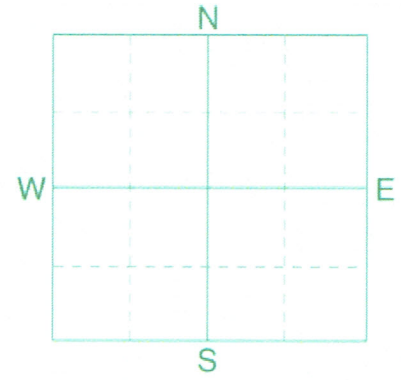
Crop 3: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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### SOIL TEST REPORT

FIELD ID **SE 26-5-8W**  
 SAMPLE ID **7**  
 FIELD NAME **Turner east**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **26** QTR **SE** ACRES **255**  
 PREV. CROP **Barley**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2341426** BOX # **1771**  
 LAB # **NW52727**

Date Sampled **08/29/2018**

Date Received **08/31/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6"	17 lb/ac				Soybeans		Soybeans		Soybeans				
	6-24"	18 lb/ac				YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	35 lb/ac				30 BU		40 BU		50 BU				
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band		Band		Band				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen	22 ppm				N	***	N	***	N	***			
Potassium		195 ppm				P <sub>2</sub> O <sub>5</sub>	10	P <sub>2</sub> O <sub>5</sub>	10	P <sub>2</sub> O <sub>5</sub>	12			
							Band (Starter)*		Band (Starter)*		Band *			
Chloride	0-24"	152 lb/ac				K <sub>2</sub> O	4	K <sub>2</sub> O	6	K <sub>2</sub> O	7			
							Band *		Band *		Band *			
Sulfur	0-6"	30 lb/ac				Cl	0	Cl	0	Cl	0			
	6-24"	108 lb/ac				S	7	S	7	S	7			
Boron		0.8 ppm					Band (Trial)		Band (Trial)		Band (Trial)			
Zinc		2.27 ppm				B	0	B	0	B	0			
Iron		23.0 ppm				Zn	0	Zn	0	Zn	0			
Manganese		3.9 ppm				Fe	0	Fe	0	Fe	0			
Copper		1.02 ppm				Mn	0	Mn	0	Mn	0			
Magnesium		515 ppm				Cu	0	Cu	0	Cu	0			
Calcium		4982 ppm				Mg	0	Mg	0	Mg	0			
Sodium		34 ppm				Lime		Lime		Lime				
Org.Matter		2.9 %												
Carbonate(CCE)		4.7 %												
Sol. Salts	0-6"	0.39 mmho/cm				Soil pH	8.0	Cation Exchange Capacity	29.8 meq	% Base Saturation (Typical Range)				
	6-24"	0.36 mmho/cm				Buffer pH	8.4			% Ca	% Mg	% K	% Na	% H
										(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
										83.5	14.4	1.7	0.5	

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P<sub>2</sub>O<sub>5</sub> = 26 K<sub>2</sub>O = 45 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P<sub>2</sub>O<sub>5</sub> = 35 K<sub>2</sub>O = 60 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

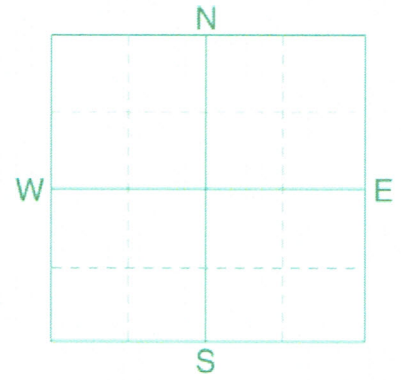
Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P<sub>2</sub>O<sub>5</sub> = 44 K<sub>2</sub>O = 75 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



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## SOIL TEST REPORT

FIELD ID **NH 26-5-8W**  
 SAMPLE ID **8**  
 FIELD NAME **Turner north**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **26** QTR **NH** ACRES **245**  
 PREV. CROP **Barley**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2341425** BOX # **1702**  
 LAB # **NW52726**

Date Sampled **08/29/2018**

Date Received **08/31/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	18 lb/ac 57 lb/ac				Canola-bu		Canola-bu		Canola-bu				
						YIELD GOAL		YIELD GOAL		YIELD GOAL				
						40 BU		50 BU		60 BU				
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
	0-24"	75 lb/ac				Band		Band		Band				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen	25 ppm				N	65	N	100	N	135			
Potassium		176 ppm				P <sub>2</sub> O <sub>5</sub>	10 Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	10 Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	10 Band (Starter)*			
Chloride	0-24"	200 lb/ac				K <sub>2</sub> O	0	K <sub>2</sub> O	0	K <sub>2</sub> O	0			
Sulfur	0-6" 6-24"	26 lb/ac 198 lb/ac				Cl	Not Available	Cl	Not Available	Cl	Not Available			
Boron		0.8 ppm				S	15 Band	S	15 Band	S	15 Band			
Zinc		2.96 ppm				B	1 Broadcast	B	1 Broadcast	B	1 Broadcast			
Iron		23.1 ppm				Zn	0	Zn	0	Zn	0			
Manganese		3.7 ppm				Fe	0	Fe	0	Fe	0			
Copper		0.98 ppm				Mn	0	Mn	0	Mn	0			
Magnesium		625 ppm				Cu	0	Cu	0	Cu	0			
Calcium		4459 ppm				Mg	0	Mg	0	Mg	0			
Sodium		46 ppm				Lime		Lime		Lime				
Org. Matter		3.3 %				Soil pH		Cation Exchange		% Base Saturation (Typical Range)				
Carbonate(CCE)		2.7 %				Buffer pH	Capacity			% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.39 mmho/cm 0.44 mmho/cm				0-6" 7.9 6-24" 8.3	28.2 meq	(65-75) 79.2	(15-20) 18.5	(1-7) 1.6	(0-5) 0.7	(0-5)		

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

Crop 1: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

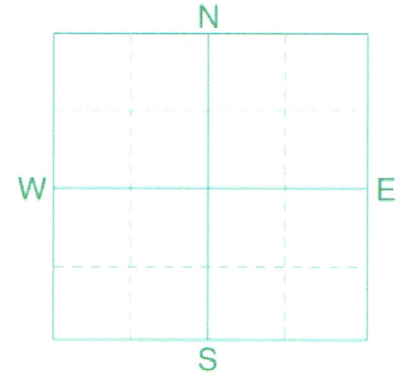
Crop 3: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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### SOIL TEST REPORT

FIELD ID **SE 35-5-8W**  
 SAMPLE ID **1**  
 FIELD NAME **Allen Turner**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **35** QTR **SE** ACRES **130**  
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2318146** BOX # **260**  
 LAB # **NW38498**

Date Sampled **08/14/2018**

Date Received **08/16/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		Low	Med	High									
Nitrate	0-6" 6-24"	16 lb/ac 24 lb/ac			Canola-bu		Canola-bu		Soybeans				
					YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	40 lb/ac			50 BU		60 BU		50 BU				
					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
					Band		Band		Band				
					LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen	22 ppm			N	135	N	170	N	***			
Potassium		229 ppm			P <sub>2</sub> O <sub>5</sub>	10	P <sub>2</sub> O <sub>5</sub>	10	P <sub>2</sub> O <sub>5</sub>	12			
						Band (Starter)*		Band (Starter)*		Band *			
Chloride	0-24"	104 lb/ac			K <sub>2</sub> O	0	K <sub>2</sub> O	0	K <sub>2</sub> O	0			
Sulfur	0-6" 6-24"	30 lb/ac 114 lb/ac			Cl		Cl		Cl	0			
						Not Available		Not Available					
Boron		0.7 ppm			S	15	S	15	S	5			
						Band		Band		Band (Trial)			
Zinc		2.73 ppm			B	1	B	1	B	0			
						Broadcast		Broadcast					
Iron		30.0 ppm			Zn	0	Zn	0	Zn	0			
Manganese		3.8 ppm			Fe	0	Fe	0	Fe	0			
Copper		1.01 ppm			Mn	0	Mn	0	Mn	0			
Magnesium		699 ppm			Cu	0	Cu	0	Cu	0			
Calcium		4756 ppm			Mg	0	Mg	0	Mg	0			
Sodium		39 ppm			Lime		Lime		Lime				
Org.Matter		3.9 %			Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)		2.0 %			Buffer pH				% Ca	% Mg	% K	% Na	% H
	0-6" 6-24"	0.4 mmho/cm 0.4 mmho/cm			0-6"	7.8	30.4 meq		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
Soil Salts					6-24"	8.2			78.3	19.2	1.9	0.6	

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

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

Crop 2: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

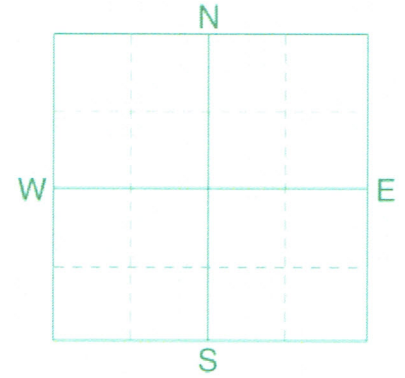
Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is low based on the salt and carbonate levels. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



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### SOIL TEST REPORT

FIELD ID **NW 25-5-8W**  
 SAMPLE ID **3**  
 FIELD NAME **Eagle Creek NW**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **25** QTR **NW** ACRES **185**  
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB**      **ROG 1M0**

REF # **2341405** BOX # **1730**  
 LAB # **NW52719**

Date Sampled **08/29/2018**

Date Received **08/31/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	Barley		Barley		Barley			
Nitrate	0-6" 6-24"	13 lb/ac 9 lb/ac				YIELD GOAL		YIELD GOAL		YIELD GOAL			
			****			80 BU		90 BU		100 BU			
	0-24"	22 lb/ac				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
Phosphorus	Olsen	19 ppm	*****			Band		Band		Band			
	Potassium	184 ppm	*****			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Chloride	0-24"	144 lb/ac	*****			N	102	N	118	N	133		
	0-6" 6-24"	44 lb/ac 360 +lb/ac	*****			P <sub>2</sub> O <sub>5</sub>	15 Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	15 Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	15 Band (Starter)*		
Sulfur			*****			K <sub>2</sub> O	10 Band (Starter)*	K <sub>2</sub> O	12 Band *	K <sub>2</sub> O	13 Band *		
	Boron	0.9 ppm	*****			Cl	0	Cl	0	Cl	0		
Zinc	3.56 ppm	*****			S	0	S	0	S	0			
Iron	30.8 ppm	*****			B	0	B	0	B	0			
Manganese	4.4 ppm	*****			Zn	0	Zn	0	Zn	0			
Copper	1.16 ppm	*****			Fe	0	Fe	0	Fe	0			
Magnesium	673 ppm	*****			Mn	0	Mn	0	Mn	0			
Calcium	5069 ppm	*****			Cu	0	Cu	0	Cu	0			
Sodium	52 ppm	*****			Mg	0	Mg	0	Mg	0			
Org. Matter	4.0 %	*****			Lime		Lime		Lime				
Carbonate(CCE)	3.1 %	*****			Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
Sol. Salts	0-6" 6-24"	0.55 mmho/cm 0.77 mmho/cm	*****			0-6" <b>7.8</b> 6-24" <b>8.2</b>		<b>31.7 meq</b>	% Ca	% Mg	% K	% Na	% H
			*****						(65-75) <b>80.1</b>	(15-20) <b>17.7</b>	(1-7) <b>1.5</b>	(0-5) <b>0.7</b>	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 40 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 42 K2O = 45 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

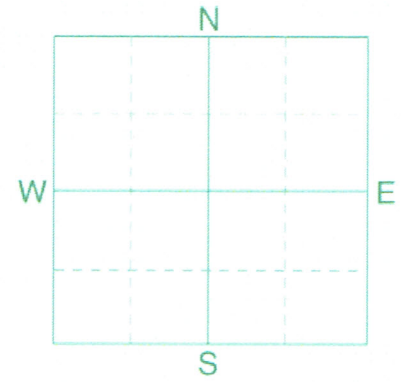
Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 47 K2O = 50 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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## SOIL TEST REPORT

FIELD ID **SW 25-5-8W**  
 SAMPLE ID **4**  
 FIELD NAME **Eagle Creek SW**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **25** QTR **SW** ACRES **70**  
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2341420** BOX # **1730**  
 LAB # **NW52720**

Date Sampled **08/29/2018**

Date Received **08/31/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6"	15 lb/ac				Barley		Barley		Barley				
	6-24"	21 lb/ac	*****			YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	36 lb/ac				80 BU		90 BU		100 BU				
	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		Band		Band		Band			
	Band		Band		Band		LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	20 ppm	*****			N	88	N	104	N	119			
Potassium		158 ppm	*****			P <sub>2</sub> O <sub>5</sub>	15	P <sub>2</sub> O <sub>5</sub>	15	P <sub>2</sub> O <sub>5</sub>	15			
Chloride	0-24"	124 lb/ac	*****			Band (Starter)*		Band (Starter)*		Band (Starter)*				
	0-6"	40 lb/ac	*****			K <sub>2</sub> O	21	K <sub>2</sub> O	23	K <sub>2</sub> O	26			
Sulfur	6-24"	78 lb/ac	*****			Band *		Band *		Band *				
						Cl	0	Cl	0	Cl	0			
Boron		0.8 ppm	*****			S	0	S	0	S	0			
Zinc		3.96 ppm	*****			B	0	B	0	B	0			
Iron		21.3 ppm	*****			Zn	0	Zn	0	Zn	0			
Manganese		3.4 ppm	*****			Fe	0	Fe	0	Fe	0			
Copper		0.94 ppm	*****			Mn	0	Mn	0	Mn	0			
Magnesium		634 ppm	*****			Cu	0	Cu	0	Cu	0			
Calcium		4428 ppm	*****			Mg	0	Mg	0	Mg	0			
Sodium		43 ppm	*****			Lime		Lime		Lime				
Org.Matter		3.6 %	*****			Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)		1.2 %	*****			Buffer pH				% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6"	0.49 mmho/cm	*****			0-6"	7.9	28.0 meq	79.0	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
	6-24"	0.45 mmho/cm	*****			6-24"	8.3					18.9	1.4	0.7

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 40 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 42 K2O = 45 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

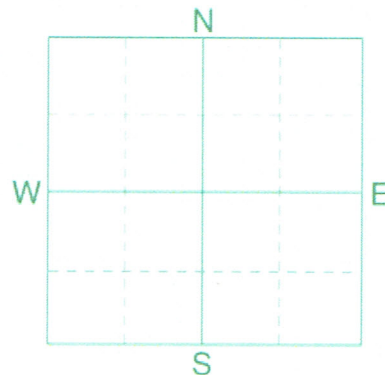
Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 47 K2O = 50 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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### SOIL TEST REPORT

FIELD ID **NE 25-5-8W**  
 SAMPLE ID **5**  
 FIELD NAME **Eagle Creek NE**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **25** QTR **NE** ACRES **140**  
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB**      **ROG 1M0**

REF # **2341406** BOX # **1730**  
 LAB # **NW52724**

Date Sampled **08/29/2018**

Date Received **08/31/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		Low Med High	Barley		Barley		Barley			
Nitrate	0-6" 22 lb/ac		YIELD GOAL		YIELD GOAL		YIELD GOAL			
	6-24" 42 lb/ac		80 BU		90 BU		100 BU			
	0-24" 64 lb/ac		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Band		Band		Band			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen 26 ppm		N	60	N	76	N	91		
Potassium	234 ppm		P <sub>2</sub> O <sub>5</sub>	15 Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	15 Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	15 Band (Starter)*		
Chloride	0-24" 152 lb/ac		K <sub>2</sub> O	10 Band (Starter)*	K <sub>2</sub> O	10 Band (Starter)*	K <sub>2</sub> O	10 Band (Starter)*		
Sulfur	0-6" 38 lb/ac		Cl	0	Cl	0	Cl	0		
	6-24" 138 lb/ac		S	0	S	0	S	0		
Boron	0.7 ppm		B	0	B	0	B	0		
Zinc	4.26 ppm		Zn	0	Zn	0	Zn	0		
Iron	33.2 ppm		Fe	0	Fe	0	Fe	0		
Manganese	7.6 ppm		Mn	0	Mn	0	Mn	0		
Copper	1.25 ppm		Cu	0	Cu	0	Cu	0		
Magnesium	615 ppm		Mg	0	Mg	0	Mg	0		
Calcium	3824 ppm		Lime		Lime		Lime			
Sodium	56 ppm									
Org. Matter	3.6 %									
Carbonate(CCE)	0.9 %									
Sol. Salts	0-6" 0.56 mmho/cm		Soil pH	7.4	Cation Exchange Capacity		% Base Saturation (Typical Range)			
	6-24" 0.58 mmho/cm		6-24" 8.2		25.1 meq	% Ca	% Mg	% K	% Na	% H
						(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
						76.2	20.4	2.4	1.0	

General Comments: Fine Loams (CEC range 21 to 30) (Medium)

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 40 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 42 K2O = 45 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 47 K2O = 50 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

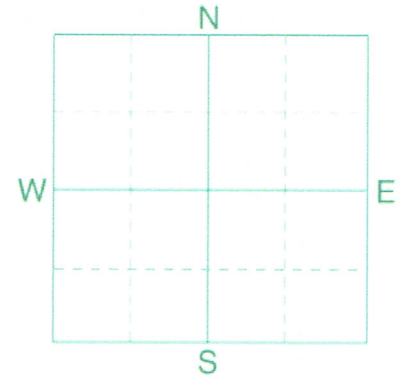




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## SOIL TEST REPORT

FIELD ID **SE 25-5-8W**  
 SAMPLE ID **6**  
 FIELD NAME **Eagle Creek SE**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **25** QTR **SE** ACRES **80**  
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2341412** BOX # **1738**  
 LAB # **NW52725**

Date Sampled **08/29/2018**

Date Received **08/31/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	Barley		Barley		Barley			
	0-6" 16 lb/ac 6-24" 30 lb/ac	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24" 46 lb/ac		80 BU		90 BU		100 BU			
Nitrate			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Band		Band		Band			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen 13 ppm	*****	N 78		N 94		N 109			
Potassium	205 ppm	*****	P <sub>2</sub> O <sub>5</sub> 23	Band *	P <sub>2</sub> O <sub>5</sub> 26	Band *	P <sub>2</sub> O <sub>5</sub> 29	Band *		
Chloride	0-24" 156 lb/ac	*****	K <sub>2</sub> O 10	Band (Starter)*	K <sub>2</sub> O 10	Band (Starter)*	K <sub>2</sub> O 10	Band (Starter)*		
Sulfur	0-6" 24 lb/ac 6-24" 66 lb/ac	*****	Cl 0		Cl 0		Cl 0			
Boron	0.5 ppm	*****	S 0		S 0		S 0			
Zinc	1.15 ppm	*****	B 0		B 0		B 0			
Iron	26.7 ppm	*****	Zn 0		Zn 0		Zn 0			
Manganese	4.5 ppm	*****	Fe 0		Fe 0		Fe 0			
Copper	0.81 ppm	*****	Mn 0		Mn 0		Mn 0			
Magnesium	557 ppm	*****	Cu 0		Cu 0		Cu 0			
Calcium	4159 ppm	*****	Mg 0		Mg 0		Mg 0			
Sodium	29 ppm	****	Lime		Lime		Lime			
Org.Matter	3.8 %	*****	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Carbonate(CCE)	1.5 %	*****	0-6" 7.6	Buffer pH	26.1 meq	% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 0.42 mmho/cm 6-24" 0.45 mmho/cm	*****	6-24" 8.1			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)

General Comments: Fine Loams (CEC range 21 to 30) (Medium)

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 40 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 42 K2O = 45 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

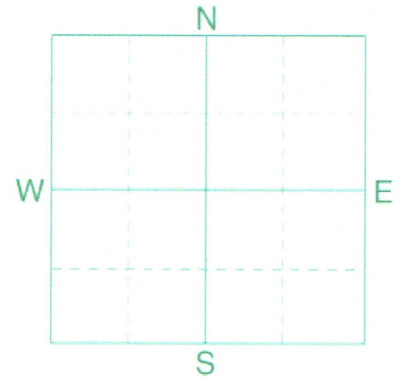
Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 47 K2O = 50 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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## SOIL TEST REPORT

FIELD ID **WH 24-5-8W**  
 SAMPLE ID **10**  
 FIELD NAME **Orchard**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **24** QTR **WH** ACRES **190**  
 PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2341423** BOX # **1797**  
 LAB # **NW52723**

Date Sampled **08/29/2018**

Date Received **08/31/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6" 6-24"	16 lb/ac 15 lb/ac	*****			Barley	Barley	Barley	Barley	Barley	Barley		
	0-24"	31 lb/ac				YIELD GOAL	YIELD GOAL	YIELD GOAL	YIELD GOAL	YIELD GOAL	YIELD GOAL		
						80 BU	90 BU	100 BU	80 BU	90 BU	100 BU		
						SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES		
Phosphorus	Olsen	19 ppm	*****			Band	Band	Band	Band	Band	Band		
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Potassium		185 ppm	*****			N 93	N 109	N 124	N 93	N 109	N 124		
Chloride	0-24"	104 lb/ac	*****			P <sub>2</sub> O <sub>5</sub> 15	P <sub>2</sub> O <sub>5</sub> 15	P <sub>2</sub> O <sub>5</sub> 15	P <sub>2</sub> O <sub>5</sub> 15	P <sub>2</sub> O <sub>5</sub> 15	P <sub>2</sub> O <sub>5</sub> 15		
	0-6" 6-24"	32 lb/ac 54 lb/ac	*****			Band (Starter)*	Band (Starter)*	Band (Starter)*	Band (Starter)*	Band (Starter)*	Band (Starter)*		
Sulfur	0-6" 6-24"	32 lb/ac 54 lb/ac	*****			K <sub>2</sub> O 10	K <sub>2</sub> O 11	K <sub>2</sub> O 11	K <sub>2</sub> O 10	K <sub>2</sub> O 11	K <sub>2</sub> O 13		
						Band (Starter)*	Band *	Band *	Band (Starter)*	Band *	Band *		
Boron		0.8 ppm	*****			Cl 0	Cl 0	Cl 0	Cl 0	Cl 0	Cl 0		
Zinc		3.47 ppm	*****			S 0	S 0	S 0	S 0	S 0	S 0		
Iron		27.4 ppm	*****			B 0	B 0	B 0	B 0	B 0	B 0		
Manganese		4.3 ppm	*****			Zn 0	Zn 0	Zn 0	Zn 0	Zn 0	Zn 0		
Copper		1.04 ppm	*****			Fe 0	Fe 0	Fe 0	Fe 0	Fe 0	Fe 0		
Magnesium		586 ppm	*****			Mn 0	Mn 0	Mn 0	Mn 0	Mn 0	Mn 0		
Calcium		4569 ppm	*****			Cu 0	Cu 0	Cu 0	Cu 0	Cu 0	Cu 0		
Sodium		39 ppm	*****			Mg 0	Mg 0	Mg 0	Mg 0	Mg 0	Mg 0		
Org. Matter		4.0 %	*****			Lime	Lime	Lime	Lime	Lime	Lime		
Carbonate(CCE)		1.9 %	*****										
Sol. Salts	0-6" 6-24"	0.4 mmho/cm 0.37 mmho/cm	*****			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						0-6" 7.8 6-24" 8.3		28.4 meq	% Ca	% Mg	% K	% Na	% H
									(65-75) 80.5	(15-20) 17.2	(1-7) 1.7	(0-5) 0.6	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 38 K2O = 40 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 42 K2O = 45 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

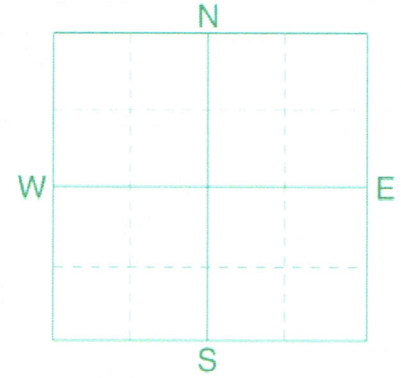
Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 47 K2O = 50 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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### SOIL TEST REPORT

FIELD ID **NE 24-5-8W**  
 SAMPLE ID **20**  
 FIELD NAME **Spencer**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **24** QTR **NE** ACRES **100**  
 PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2369664** BOX # **4902**  
 LAB # **NW88440**

Date Sampled **09/19/2018**

Date Received **09/21/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	Wheat-Spring		Wheat-Spring		Wheat-Spring			
Nitrate	0-6" 6-24"	18 lb/ac 21 lb/ac	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****	60 BU		70 BU		80 BU			
	0-24"	39 lb/ac	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Band		Band		Band			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	14 ppm	N	123		N	150			
Potassium		229 ppm	P <sub>2</sub> O <sub>5</sub>	23	Band *	P <sub>2</sub> O <sub>5</sub>	27	Band *		
Chloride	0-24"	124 lb/ac	K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	10	Band (Starter)*		
	0-6" 6-24"	30 lb/ac 48 lb/ac	Cl	0		Cl	0			
Sulfur			S	5	Band (Trial)	S	5	Band (Trial)		
Boron		0.5 ppm	B	0		B	0			
Zinc		2.09 ppm	Zn	0		Zn	0			
Iron		28.7 ppm	Fe	0		Fe	0			
Manganese		3.8 ppm	Mn	0		Mn	0			
Copper		1.01 ppm	Cu	0		Cu	0			
Magnesium		617 ppm	Mg	0		Mg	0			
Calcium		3990 ppm	Lime			Lime				
Sodium		49 ppm								
Org.Matter		3.5 %								
Carbonate(CCE)		0.9 %								
Sol. Salts	0-6"	0.52 mmho/cm	Soil pH	7.6	Cation Exchange Capacity	% Base Saturation (Typical Range)				
	6-24"	0.39 mmho/cm	6-24"	8.1		Capacity	% Ca	% Mg	% K	% Na
					25.9 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
						77.1	19.9	2.3	0.8	

General Comments: Fine Loams (CEC range 21 to 30) (Medium)

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

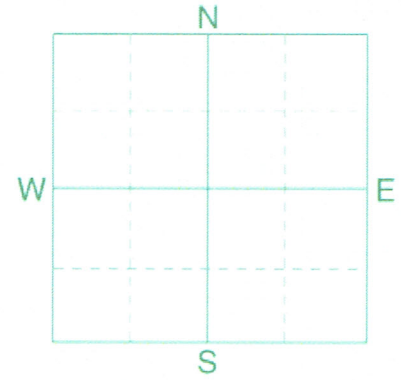
Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 50 K2O = 30 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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## SOIL TEST REPORT

FIELD ID **SE 36-5-8W**  
 SAMPLE ID **22**  
 FIELD NAME **Browns**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **36** QTR **SE** ACRES **135**  
 PREV. CROP **Soybeans**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2445891** BOX # **11315**  
 LAB # **NW122909**

Date Sampled **10/11/2018**

Date Received **10/13/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		V Low Low Med High								
Nitrate	0-6" 12 lb/ac		Canola-bu		Canola-bu		Canola-bu			
	6-24" 21 lb/ac		YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24" 33 lb/ac		40 BU		50 BU		60 BU			
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Band		Band		Band			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen 19 ppm		N 92		N 127		N 162			
Potassium	233 ppm		P <sub>2</sub> O <sub>5</sub> 12	Band *	P <sub>2</sub> O <sub>5</sub> 15	Band *	P <sub>2</sub> O <sub>5</sub> 18	Band *		
Chloride	0-24" 84 lb/ac		K <sub>2</sub> O 0		K <sub>2</sub> O 0		K <sub>2</sub> O 0			
	0-6" 30 lb/ac		Cl	Not Available	Cl	Not Available	Cl	Not Available		
Sulfur	6-24" 138 lb/ac		S 15	Band	S 15	Band	S 15	Band		
Boron	0.8 ppm		B 1	Broadcast	B 1	Broadcast	B 1	Broadcast		
Zinc	1.84 ppm		Zn 0		Zn 0		Zn 0			
Iron	40.2 ppm		Fe 0		Fe 0		Fe 0			
Manganese	6.0 ppm		Mn 0		Mn 0		Mn 0			
Copper	1.35 ppm		Cu 0		Cu 0		Cu 0			
Magnesium	661 ppm		Mg 0		Mg 0		Mg 0			
Calcium	4566 ppm		Lime		Lime		Lime			
Sodium	72 ppm									
Org. Matter	3.4 %									
Carbonate(CCE)	2.0 %									
Sol. Salts	0-6" 0.51 mmho/cm		Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
	6-24" 0.46 mmho/cm		0-6" 7.4		29.2 meq	% Ca	% Mg	% K	% Na	% H
			6-24" 8.2			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
						78.1	18.8	2.0	1.1	

General Comments: Fine Loams (CEC range 21 to 30) (Medium)

Crop 1: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

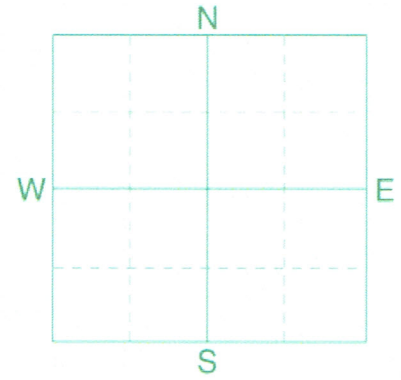
Crop 3: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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### SOIL TEST REPORT

FIELD ID **NH 30-5-7W**  
 SAMPLE ID **13**  
 FIELD NAME **Badiou**  
 COUNTY  
 TWP **5** RANGE **7**  
 SECTION **30** QTR **NH** ACRES **350**  
 PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2343338** BOX # **2108**  
 LAB # **NW57814**

Date Sampled **08/30/2018**

Date Received **09/05/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	Wheat-Spring		Wheat-Spring		Wheat-Spring			
			YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****	60 BU		70 BU		80 BU			
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Band		Band		Band			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 34 lb/ac 6-24" 57 lb/ac		N	71	N	98	N	125		
Phosphorus	Olsen 22 ppm	*****	P <sub>2</sub> O <sub>5</sub>	15 Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	15 Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	15 Band (Starter)*		
Potassium	315 ppm	*****	K <sub>2</sub> O	10 Band (Starter)*	K <sub>2</sub> O	10 Band (Starter)*	K <sub>2</sub> O	10 Band (Starter)*		
Chloride	0-24" 324 lb/ac	*****	Cl	0	Cl	0	Cl	0		
Sulfur	0-6" 120 +lb/ac 6-24" 360 +lb/ac	*****	S	0	S	0	S	0		
Boron	1.1 ppm	*****	B	0	B	0	B	0		
Zinc	3.07 ppm	*****	Zn	0	Zn	0	Zn	0		
Iron	38.3 ppm	*****	Fe	0	Fe	0	Fe	0		
Manganese	8.4 ppm	*****	Mn	0	Mn	0	Mn	0		
Copper	1.41 ppm	*****	Cu	0	Cu	0	Cu	0		
Magnesium	900 ppm	*****	Mg	0	Mg	0	Mg	0		
Calcium	5849 ppm	*****	Lime		Lime		Lime			
Sodium	268 ppm	*****								
Org.Matter	3.6 %	*****								
Carbonate(CCE)	2.7 %	*****								
Sol. Salts	0-6" 1.13 mmho/cm 6-24" 1.46 mmho/cm	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			0-6" 7.3 6-24" 7.8		38.7 meq	% Ca	% Mg	% K	% Na	% H
						(65-75) 75.5	(15-20) 19.4	(1-7) 2.1	(0-5) 3.0	(0-5)

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

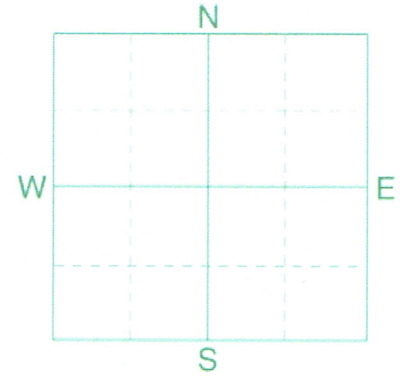
Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 50 K2O = 30 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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## SOIL TEST REPORT

FIELD ID **NW 31-5-7W**  
 SAMPLE ID **19**  
 FIELD NAME **Henry**  
 COUNTY  
 TWP **5** RANGE **7**  
 SECTION **31** QTR **NW** ACRES **150**  
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2369663** BOX # **4902**  
 LAB # **NW88438**

Date Sampled **09/19/2018**

Date Received **09/21/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		V.Low Low Med High	Canola-bu		Canola-bu		Canola-bu			
	0-6" 21 lb/ac 6-24" 30 lb/ac	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24" 51 lb/ac		40 BU		50 BU		60 BU			
Nitrate			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Band		Band		Band			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen 12 ppm	*****	N 89		N 124		N 159			
Potassium	179 ppm	*****	P <sub>2</sub> O <sub>5</sub> 26	Band *	P <sub>2</sub> O <sub>5</sub> 33	Band *	P <sub>2</sub> O <sub>5</sub> 39	Band *		
Chloride	0-24" 180 lb/ac	*****	K <sub>2</sub> O 0		K <sub>2</sub> O 0		K <sub>2</sub> O 0			
	0-6" 24 lb/ac 6-24" 66 lb/ac	*****	Cl	Not Available	Cl	Not Available	Cl	Not Available		
Sulfur			S 17	Band	S 17	Band	S 17	Band		
Boron	0.6 ppm	*****	B 1	Broadcast	B 1	Broadcast	B 1	Broadcast		
Zinc	1.45 ppm	*****	Zn 0		Zn 0		Zn 0			
Iron	20.4 ppm	*****	Fe 0		Fe 0		Fe 0			
Manganese	2.4 ppm	*****	Mn 0		Mn 0		Mn 0			
Copper	1.15 ppm	*****	Cu 0		Cu 0		Cu 0			
Magnesium	618 ppm	*****	Mg 0		Mg 0		Mg 0			
Calcium	5182 ppm	*****	Lime		Lime		Lime			
Sodium	57 ppm	*****								
Org.Matter	2.7 %	*****								
Carbonate(CCE)	4.7 %	*****								
	0-6" 0.49 mmho/cm 6-24" 0.41 mmho/cm	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Sol. Salts			0-6" 7.8 6-24" 8.3		31.8 meq	% Ca	% Mg	% K	% Na	% H
						(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
						81.6	16.2	1.4	0.8	

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

Crop 1: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

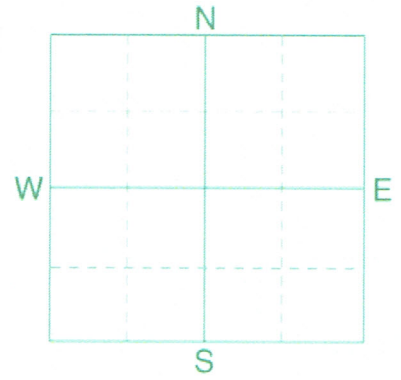
Crop 3: \*\* Chloride yield data is limited for this crop. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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### SOIL TEST REPORT

FIELD ID **EH 31-5-7W**  
 SAMPLE ID **14**  
 FIELD NAME **Siemens N+S**  
 COUNTY  
 TWP **5** RANGE **7**  
 SECTION **31** QTR **EH** ACRES **315**  
 PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2344734** BOX # **2128**  
 LAB # **NW57803**

Date Sampled **08/30/2018**

Date Received **09/05/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Wheat-Spring		Wheat-Spring		Wheat-Spring				
Nitrate	0-6"					YIELD GOAL		YIELD GOAL		YIELD GOAL				
	6-24"					60 BU		70 BU		80 BU				
	0-24"					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band		Band		Band				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen					N	79	N	106	N	133			
Potassium						P <sub>2</sub> O <sub>5</sub>	15	P <sub>2</sub> O <sub>5</sub>	15	P <sub>2</sub> O <sub>5</sub>	15			
							Band (Starter)*		Band (Starter)*		Band (Starter)*			
Chloride	0-24"					K <sub>2</sub> O	10	K <sub>2</sub> O	10	K <sub>2</sub> O	10			
							Band (Starter)*		Band (Starter)*		Band (Starter)*			
Sulfur	0-6"					Cl	0	Cl	0	Cl	0			
	6-24"					S	0	S	0	S	0			
Boron						B	0	B	0	B	0			
	0.9 ppm					Zn	0	Zn	0	Zn	0			
Zinc						Fe	0	Fe	0	Fe	0			
	4.65 ppm					Mn	0	Mn	0	Mn	0			
Iron						Cu	0	Cu	0	Cu	0			
	37.4 ppm					Mg	0	Mg	0	Mg	0			
Manganese						Lime		Lime		Lime				
	4.9 ppm													
Copper						Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
	1.51 ppm									% Ca	% Mg	% K	% Na	% H
Magnesium						0-6"	7.7	34.7 meq		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
	797 ppm					6-24"	8.5			76.7	19.1	2.2	1.9	
Calcium														
	5321 ppm													
Sodium														
	153 ppm													
Org.Matter														
	3.9 %													
Carbonate(CCE)														
	1.5 %													
Sol. Salts	0-6"													
	6-24"	0.56 mmho/cm												
	0.5 mmho/cm													

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

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

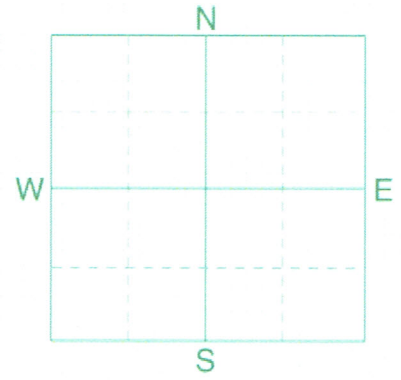
Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 50 K2O = 30 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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### SOIL TEST REPORT

FIELD ID **WH 24-5-8W**  
 SAMPLE ID **23**  
 FIELD NAME **Orchard**  
 COUNTY  
 TWP **5** RANGE **8**  
 SECTION **24** QTR **WH** ACRES **77**  
 PREV. CROP **Soybeans**



SUBMITTED FOR:  
**EAGLE CREEK COLONY**

SUBMITTED BY: **PE0510**  
**PEMBINA COOP-NOTRE DAME**  
**NORTH AGRO 31-6-8**  
**BOX 465**  
**NOTRE DAME, MB** **ROG 1M0**

REF # **2449293** BOX # **1732**  
 LAB # **NW143688**

Date Sampled **10/12/2018**

Date Received **10/23/2018**

Date Reported **12/11/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Wheat-Spring		Wheat-Spring		Wheat-Spring				
Nitrate	0-6"					YIELD GOAL		YIELD GOAL		YIELD GOAL				
	6-24"					70 BU		80 BU		90 BU				
	0-24"					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band		Band		Band				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen 8 ppm					N 141		N 168		N 195				
Potassium	168 ppm					P <sub>2</sub> O <sub>5</sub> 41	Band *	P <sub>2</sub> O <sub>5</sub> 47	Band *	P <sub>2</sub> O <sub>5</sub> 53	Band *			
Chloride	0-24"					K <sub>2</sub> O 16	Band *	K <sub>2</sub> O 18	Band *	K <sub>2</sub> O 20	Band *			
Sulfur	0-6"					Cl 0		Cl 0		Cl 0				
	6-24"					S 0		S 0		S 0				
Boron	0.7 ppm					B 0		B 0		B 0				
Zinc	0.65 ppm					Zn 3	Band (Trial)	Zn 3	Band (Trial)	Zn 3	Band (Trial)			
Iron	18.3 ppm					Fe 0		Fe 0		Fe 0				
Manganese	2.2 ppm					Mn 0		Mn 0		Mn 0				
Copper	0.77 ppm					Cu 1	Band (Trial)	Cu 1	Band (Trial)	Cu 1	Band (Trial)			
Magnesium	560 ppm					Mg 0		Mg 0		Mg 0				
Calcium	5139 ppm					Lime		Lime		Lime				
Sodium	36 ppm													
Org.Matter	3.0 %													
Carbonate(CCE)	3.6 %													
Sol. Salts	0-6"					Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
	6-24"					0-6" 8.1		30.9 meq		% Ca	% Mg	% K	% Na	% H
	0.31 mmho/cm					6-24" 8.4				(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
	0.44 mmho/cm									83.0	15.1	1.4	0.5	

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

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

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 50 K2O = 30 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 34 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



**CROP ROTATION TABLE**

A Expected Crops in the Rotation	B Acreage	C Historical Yield	D Units	E Source of Yield Information
Barley grain	826	73.9	bu/ac	MASC
Canola	838	42.2	bu/ac	MASC
Soybeans	180	37.4	bu/ac	MASC
Wheat-spring	656	57	bu/ac	MASC
<b>Total Net Acreage for Manure Application</b>	<b>2,500</b>			

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

1a - Pigs

Operation Name: Eagle Creek Colony Ltd

Operation Type	Storage Type	Volatilization	Animal Numbers (Places)	Average Animal Wt (lb)	N Excreted Per Herd Adjusted for Storage N Loss (lb/yr/herd)	P2O5 Excreted Per Herd Per Year (lb/yr/herd)
Boars (Purchased)	Liquid Uncovered Earthen	30%		465	0	0
Weanlings	Liquid Uncovered Earthen	30%		38	0	0
Growers/Finishers	Liquid Uncovered Earthen	30%		171	0	0
Sows, farrow to 6.2 kg	Liquid Uncovered Earthen	30%		n/a	0	0
Sows, farrow to 28 kg	Liquid Uncovered Earthen	30%		n/a	0	0
Sows, farrow to finish	Liquid Uncovered Earthen	30%	1000	n/a	283622	149986

Last Revised April 26, 2018

1e - Poultry

Operation Name: Eagle Creek Colony Ltd

Species / Commodity	Type of Operation	Storage Type	Volatilization	Bird Places	Weight In (lb)	Weight Out (lb)	Average Weight (lb)	Days on Feed	Cycles per Year	N Excreted Adjusted for N Loss (lb/flock/yr)	P2O5 Excreted (lb/flock/yr)
Chickens	Broilers	Field Storage	40%	75000	0.05	4.36	2.20	33	7.4	23240	25871
Chickens	Broiler Breeder Pullets	Field Storage	40%		0.05	4.40	2.23	140	2	0	0
Chickens	Broiler Breeder Hens	Field Storage	40%		4.40	8.67	6.53	273	1	0	0
Eggs	Layer Pullets	Liquid Covered	10%		0.05	3.04	1.54	133	2	0	0
Eggs	Layer Hens	Liquid Covered	10%		3.03	3.74	3.38	355	1	0	0
Eggs	Breeder Pullets	Liquid Covered	10%		0.05	3.04	1.54	133	2	0	0
Eggs	Breeder Hens	Liquid Covered	10%		3.03	3.74	3.38	351	1	0	0
Turkey	Broiler Hens (0-9 wks)	Field Storage	40%		0.06	12.39	6.22	63	4	0	0
Turkey	Hens (0-11 wks)	Field Storage	40%		0.06	16.46	8.26	77	3.5	0	0
Turkey	Heavy Hens (0-14 wks)	Field Storage	40%		0.06	21.19	10.62	98	3	0	0
Turkey	Light Toms (0-12 wks)	Field Storage	40%		0.06	21.19	10.62	84	3	0	0
Turkey	Toms (0-13 wks)	Field Storage	40%		0.06	26.84	13.45	91	3	0	0
Turkey	Heavy Toms (0-15 wks)	Field Storage	40%		0.06	30.29	15.18	105	2.5	0	0
Turkey	Breeding Hen Growers (0-30 wks)	Field Storage	40%		0.06	26.95	13.51	210	1	0	0
Turkey	Breeding Hens (30-60 wks)	Field Storage	40%		26.95	24.95	25.95	210	1	0	0
Turkey	Breeding Tom Grower (0-18 wks)	Field Storage	40%		0.06	33.92	16.99	126	2	0	0
Turkey	Breeding Tom Grower (0-30 wks)	Field Storage	40%		0.06	50.89	25.47	210	1	0	0
Turkey	Breeding Tom (30-60 wks)	Field Storage	40%		50.89	61.86	56.38	210	1	0	0

**2 - Crop Rotation**  
**Operation Name:**

**Eagle Creek Colony Ltd**

Crop	Removal		Uptake		Yield	Units	Acreage	Removal		Uptake	
	P2O5 (lb)	N (lb)	P2O5 (lb)	N (lb)				P2O5 (lb)	N (lb)	P2O5 (lb)	N (lb)
Alfalfa	13.8	58	58	lb/ton		ton/ac					
Barley Grain	0.42	0.97	1.39	lb/bu	73.9	bu/ac	826	25637	59210	84848	
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac					
Canola	1.04	1.93	3.19	lb/bu	42.2	bu/ac	838	36778	68252	112810	
Corn Grain	0.44	0.97	1.53	lb/bu		bu/ac					
Corn Silage	12.7	31.2	31.2	lb/ton		tons/ac					
Dry Edible Beans	1.39	4.17		lb/cwt		cwt/ac					
Fababeans	1.79	5.02	8.4	lb/cwt		cwt/ac					
Flax	0.65	2.13	2.88	lb/bu		bu/ac					
Grass Hay	10	34.2	34.2	lb/ton		tons/ac					
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac					
Oats	0.26	0.62	1.07	lb/bu		bu/ac					
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac					
Peas	0.69	2.34	3.06	lb/bu		bu/ac					
Potatoes	0.09	0.32	0.57	lb/cwt		cwt/ac					
Rye	0.45	1.06	1.67	lb/bu		bu/ac					
Soybeans	0.84	3.87	5.2	lb/bu	37.4	bu/ac	180	5655	26053	35006	
Sunflower	1.1	2.8		lb/cwt		cwt/ac					
Wheat - Spring	0.59	1.5	2.11	lb/bu	57	bu/ac	656	22061	56088	78897	
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac					
<b>Total Acres</b>							<b>2500</b>	<b>90132</b>	<b>209603</b>	<b>311561</b>	
<b>Estimated Average Removal/Uptake (lb/ac)</b>								<b>36.1</b>	<b>83.8</b>	<b>124.6</b>	
<b>Acres in Hanover and La Broquerie</b>											
<b>Proportion in Hanover or La Broquerie</b>							<b>0%</b>				
<b>Additional Acres</b>											
<b>Crop Planned on Additional Acres</b>											
<b>Total Acreage</b>							<b>2500</b>				

**\*Notes:** Enter the number of acres that are in the RM's of Hanover or La Broquerie in cell H26. Additional acres include acres for which crop removal or soil data is limited or unavailable.

### 3 - Farm Excretion

Operation Name: **Eagle Creek Colony Ltd**

Species	Animal Category/Operation type	N (lb/year)	P2O5 (lb/year)
<b>Pigs</b>	Boars	0	0
	Weanlings	0	0
	Growers/finishers	0	0
	Sows, farrow to 5 kg	0	0
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	283622	149986
<b>Beef</b>	Mature Cows and Bred Heifers, plus associated livestock	0	0
	Feedlot Cattle - long keep	0	0
	Feedlot Cattle - short keep	0	0
	Backgrounders - pasture	0	0
	Backgrounders - confined	0	0
<b>Dairy</b>	Mature Cows, plus assoc livestock	0	0
<b>Sheep</b>	Ewes	0	0
	Replacement Ewes	0	0
	Rams	0	0
	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
<b>Chickens</b>	Broilers	23240	25871
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
<b>Layers</b>	Layer Pullets	0	0
	Layer Hens	0	0
	Breeder Pullets	0	0
	Breeder Hens	0	0
<b>Turkeys</b>	Broiler Hens (0-9 wks)	0	0
	Hens (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	0	0
	Light Toms (0-12 wks)	0	0
	Toms (0-13 wks)	0	0
	Heavy Toms (0-15 wks)	0	0
	Breeding Hen Growers (0-30 wks)	0	0
	Breeding Hens (30-60 wks)	0	0
	Breeding Tom Grower (0-18 wks)	0	0
	Breeding Tom Grower (0-30 wks)	0	0
Breeding Tom (30-60 wks)	0	0	
<b>Total</b>		<b>306863</b>	<b>175858</b>

**Note:**

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

#### 4 - Land Base Summary

Operation Name:

Eagle Creek Colony Ltd

<b>Nutrients Excreted</b>	<b>lbs</b>
Nitrogen	306863
Phosphorus (P2O5)	175858
<b>Crop Nutrient Use</b>	<b>lb/ac</b>
Crop N Uptake	124.6
Crop Phosphorus (P2O5) Removal	36.1
Operation-specific Phosphorus (P2O5) Credit	72.1
<b>Land Available</b>	<b>2500</b>
<b>Land Base Required</b>	<b>acres</b>
Acres for Nitrogen	2462
Acres for Phosphorus (P2O5)	2439
<b>Phosphorus Balance</b>	<b>acres</b>
Acres for Phosphorus Balance (1X)	4878

Last revised October 16, 2018

## Select Year Range



2007 to 2017

SEARCH

## Search Summary

747 records returned

4,538 farm varieties grown on 940,068.2 acres

### Average Yield

0.956 Tonnes ( 42.2 Bushels ) per acre

Showing 1 to 50 of 747 entries

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2017	LORNE	ARGENTINE CANOLA	L156H (INVIGOR HEALTH) (LT)	3	870.0	1.388 Tonnes	61.2 Bushels
2014	THOMPSON	ARGENTINE CANOLA	L252 (INVIGOR) (LT)	9	1,936.0	1.277 Tonnes	56.3 Bushels
2014	LORNE	ARGENTINE CANOLA	L140P (INVIGOR) (LT)	5	1,075.0	1.260 Tonnes	55.6 Bushels
2017	LORNE	ARGENTINE CANOLA	L233P (BAYER) (5CN0130) (LT)	18	3,427.0	1.260 Tonnes	55.5 Bushels
2008	LORNE	ARGENTINE CANOLA	5440 (INVIGOR) (PHS04-690) (LT)	16	2,502.0	1.254 Tonnes	55.3 Bushels
2015	LORNE	ARGENTINE CANOLA	L156H (INVIGOR HEALTH) (LT)	8	2,001.0	1.252 Tonnes	55.2 Bushels
2017	LORNE	ARGENTINE CANOLA	L157H (INVIGOR HEALTH) (LT)	5	646.0	1.250 Tonnes	55.1 Bushels
2017	LORNE	ARGENTINE CANOLA	46H75 (PIONEER) (ST)	4	1,338.0	1.251 Tonnes	55.1 Bushels
2014	THOMPSON	ARGENTINE CANOLA	L140P (INVIGOR) (LT)	3	562.0	1.241 Tonnes	54.7 Bushels
2017	LORNE	ARGENTINE CANOLA	L140P (INVIGOR) (LT)	42	8,958.0	1.234 Tonnes	54.4 Bushels
2015	LORNE	ARGENTINE CANOLA	L140P (INVIGOR) (LT)	17	3,790.0	1.225 Tonnes	54.0 Bushels
2008	LORNE	ARGENTINE CANOLA	8440 (INVIGOR) (PHS04-781) (LT)	13	2,990.0	1.223 Tonnes	53.9 Bushels
2017	THOMPSON	ARGENTINE CANOLA	L233P (BAYER) (5CN0130) (LT)	11	3,031.0	1.209 Tonnes	53.3 Bushels
2009	LORNE	ARGENTINE CANOLA	8440 (INVIGOR) (PHS04-781) (LT)	33	9,490.0	1.201 Tonnes	52.9 Bushels
2013	LORNE	ARGENTINE CANOLA	74-44 BL (DEKALB) (RT)	4	927.0	1.197 Tonnes	52.8 Bushels
2017	THOMPSON	ARGENTINE CANOLA	L140P (INVIGOR) (LT)	15	5,776.0	1.188 Tonnes	52.4 Bushels
2014	LORNE	ARGENTINE CANOLA	L261 (INVIGOR) (LT)	5	1,467.0	1.187 Tonnes	52.3 Bushels
2009	LORNE	ARGENTINE CANOLA	5440 (INVIGOR) (PHS04-690) (LT)	36	6,134.0	1.183 Tonnes	52.2 Bushels
2013	LORNE	ARGENTINE CANOLA	6060 RR (BRETT YOUNG) (RT)	4	817.0	1.176 Tonnes	51.9 Bushels
2009	LORNE	ARGENTINE CANOLA	5020 (INVIGOR) (RHY01/597) (LT)	36	6,559.0	1.169 Tonnes	51.6 Bushels
2008	LORNE	ARGENTINE CANOLA	46P50 (PIONEER) (03N322R) (RT)	5	1,356.0	1.164 Tonnes	51.3 Bushels
2015	LORNE	ARGENTINE CANOLA	SY4135 (SYNGENTA) (RT)	5	900.0	1.164 Tonnes	51.3 Bushels
2010	LORNE	ARGENTINE CANOLA	8440 (INVIGOR) (PHS04-781) (LT)	42	12,459.0	1.159 Tonnes	51.1 Bushels

## Select Year Range



2007 to 2017

SEARCH

## Search Summary

175 records returned

814 farm varieties grown on 158,271.5 acres

### Average Yield

1.609 Tonnes ( 73.9 Bushels ) per acre

Showing 1 to 50 of 175 entries

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2017	THOMPSON	BARLEY	CONLON	6	2,058.0	2.450 Tonnes	112.5 Bushels
2009	LORNE	BARLEY	CONLON	21	3,751.0	2.063 Tonnes	94.8 Bushels
2017	LORNE	BARLEY	CONLON	13	2,918.0	2.062 Tonnes	94.7 Bushels
2009	LORNE	BARLEY	NEWDALE (TR258)	21	2,390.0	2.004 Tonnes	92.1 Bushels
2014	LORNE	BARLEY	CONLON	12	3,684.0	1.997 Tonnes	91.7 Bushels
2013	LORNE	BARLEY	CONLON	17	3,919.0	1.995 Tonnes	91.6 Bushels
2013	LORNE	BARLEY	TRADITION (BT 954)	5	558.0	1.991 Tonnes	91.4 Bushels
2009	LORNE	BARLEY	ROBUST	4	560.0	1.979 Tonnes	90.9 Bushels
2013	LORNE	BARLEY	ROBUST	3	1,305.0	1.927 Tonnes	88.5 Bushels
2014	THOMPSON	BARLEY	CONLON	8	3,499.0	1.901 Tonnes	87.3 Bushels
2008	LORNE	BARLEY	NEWDALE (TR258)	18	2,455.0	1.875 Tonnes	86.1 Bushels
2008	THOMPSON	BARLEY	CONLON	12	3,242.0	1.855 Tonnes	85.2 Bushels
2008	LORNE	BARLEY	CONLON	27	5,725.0	1.845 Tonnes	84.7 Bushels
2009	THOMPSON	BARLEY	CONLON	16	4,902.0	1.837 Tonnes	84.4 Bushels
2013	LORNE	BARLEY	NEWDALE (TR258)	8	680.0	1.833 Tonnes	84.2 Bushels
2009	LORNE	BARLEY	TRADITION (BT 954)	11	1,491.0	1.829 Tonnes	84.0 Bushels
2008	LORNE	BARLEY	TRADITION (BT 954)	8	1,019.0	1.785 Tonnes	82.0 Bushels
2009	THOMPSON	BARLEY	ROBUST	7	787.0	1.765 Tonnes	81.1 Bushels
2013	LORNE	BARLEY	CELEBRATION (6B01-2218)	5	888.0	1.762 Tonnes	80.9 Bushels
2010	LORNE	BARLEY	CONLON	12	2,941.0	1.746 Tonnes	80.2 Bushels
2013	THOMPSON	BARLEY	CELEBRATION (6B01-2218)	5	695.0	1.731 Tonnes	79.5 Bushels
2010	LORNE	BARLEY	ROBUST	4	1,166.0	1.706 Tonnes	78.3 Bushels
2013	THOMPSON	BARLEY	CONLON	10	3,202.0	1.701 Tonnes	78.1 Bushels



## Select Year Range



2007 to 2017

SEARCH

## Search Summary

270 records returned

2,973 farm varieties grown on 719,013.6 acres

### Average Yield

1.550 Tonnes ( 57.0 Bushels ) per acre

Showing 1 to 50 of 270 entries

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2017	LORNE	RED SPRING WHEAT	HARVEST (BW259)	4	999.0	2.283 Tonnes	83.9 Bushels
2009	LORNE	RED SPRING WHEAT	GLENN	4	896.0	2.204 Tonnes	81.0 Bushels
2017	THOMPSON	RED SPRING WHEAT	AAC ELIE(BW931)	3	973.0	2.135 Tonnes	78.4 Bushels
2017	LORNE	RED SPRING WHEAT	AAC ELIE(BW931)	7	1,449.0	2.075 Tonnes	76.2 Bushels
2009	LORNE	RED SPRING WHEAT	CDC GO (BW781)	15	3,506.0	2.058 Tonnes	75.6 Bushels
2017	LORNE	RED SPRING WHEAT	AAC BRANDON (BW 932)	100	30,076.5	2.019 Tonnes	74.2 Bushels
2017	THOMPSON	RED SPRING WHEAT	CARDALE (BW429)	6	1,341.0	1.985 Tonnes	72.9 Bushels
2008	LORNE	RED SPRING WHEAT	CDC GO (BW781)	24	4,243.0	1.972 Tonnes	72.5 Bushels
2017	THOMPSON	RED SPRING WHEAT	AAC BRANDON (BW 932)	38	9,438.0	1.960 Tonnes	72.0 Bushels
2014	THOMPSON	RED SPRING WHEAT	HARVEST (BW259)	6	1,319.0	1.908 Tonnes	70.1 Bushels
2008	THOMPSON	RED SPRING WHEAT	CDC GO (BW781)	4	699.0	1.901 Tonnes	69.9 Bushels
2009	LORNE	RED SPRING WHEAT	HARVEST (BW259)	62	17,583.0	1.900 Tonnes	69.8 Bushels
2007	LORNE	RED SPRING WHEAT	CDC GO (BW781)	4	613.0	1.874 Tonnes	68.9 Bushels
2017	LORNE	RED SPRING WHEAT	CDC PLENTIFUL (PT580)	9	2,775.0	1.874 Tonnes	68.8 Bushels
2010	LORNE	RED SPRING WHEAT	CDC GO (BW781)	5	1,118.0	1.851 Tonnes	68.0 Bushels
2013	LORNE	RED SPRING WHEAT	HARVEST (BW259)	91	28,479.0	1.850 Tonnes	68.0 Bushels
2017	LORNE	RED SPRING WHEAT	CARDALE (BW429)	15	5,188.0	1.841 Tonnes	67.7 Bushels
2014	LORNE	RED SPRING WHEAT	HARVEST (BW259)	90	30,839.0	1.837 Tonnes	67.5 Bushels
2014	LORNE	RED SPRING WHEAT	CARDALE (BW429)	29	4,932.0	1.819 Tonnes	66.9 Bushels
2014	LORNE	RED SPRING WHEAT	AAC BRANDON (BW 932)	4	657.0	1.811 Tonnes	66.5 Bushels
2015	LORNE	RED SPRING WHEAT	CDC PLENTIFUL (PT580)	19	3,147.0	1.810 Tonnes	66.5 Bushels
2013	THOMPSON	RED SPRING WHEAT	GLENN	7	1,310.0	1.758 Tonnes	64.6 Bushels
2008	LORNE	RED SPRING WHEAT	KANE (BW342)	7	1,398.0	1.746 Tonnes	64.2 Bushels

## Select Year Range



**SEARCH**

## Search Summary

**331 records returned**

**917 farm varieties grown on 141,061.2 acres**

### Average Yield

**1.018 Tonnes ( 37.4 Bushels ) per acre**

Showing 1 to 50 of 331 entries

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre	Yield/acre
						(Metric)	(Imperial)
2016	THOMPSON	SOYBEANS	S007-Y4 RR2Y (SYNGENTA) (RT)	5	773.0	1.427 Tonnes	52.4 Bushels
2016	THOMPSON	SOYBEANS	NSC RICHER RR2Y (NSGENETICS) (RT)	4	790.0	1.391 Tonnes	51.1 Bushels
2016	THOMPSON	SOYBEANS	23-60RY (DEKALB) (RT)	10	1,559.0	1.366 Tonnes	50.2 Bushels
2016	THOMPSON	SOYBEANS	LS MAIDAN (LEGEND) IGS00872I (RT)	3	669.0	1.342 Tonnes	49.3 Bushels
2016	THOMPSON	SOYBEANS	P008T70R (PIONEER) (RT)	5	585.0	1.321 Tonnes	48.5 Bushels
2016	THOMPSON	SOYBEANS	P008T22R2 (PIONEER) (RT)	5	820.0	1.303 Tonnes	47.9 Bushels
2016	LORNE	SOYBEANS	S007-Y4 RR2Y (SYNGENTA) (RT)	9	1,205.0	1.248 Tonnes	45.8 Bushels
2016	LORNE	SOYBEANS	23-60RY (DEKALB) (RT)	9	1,321.0	1.228 Tonnes	45.1 Bushels
2015	LORNE	SOYBEANS	23-10RY (DEKALB) (RT)	4	662.0	1.203 Tonnes	44.2 Bushels
2012	THOMPSON	SOYBEANS	PS 0027RR (RT)	3	640.0	1.181 Tonnes	43.4 Bushels
2016	LORNE	SOYBEANS	AKRAS R2 (BRETT YOUNG) (RT)	11	1,567.0	1.174 Tonnes	43.1 Bushels
2013	THOMPSON	SOYBEANS	25-10RY (DEKALB) (RT)	6	845.0	1.166 Tonnes	42.8 Bushels
2017	LORNE	SOYBEANS	S007-Y4 RR2Y (SYNGENTA) (RT)	27	4,588.0	1.159 Tonnes	42.6 Bushels
2016	THOMPSON	SOYBEANS	LS ECLIPSE (LEGEND) IMKZ314A2-COYNNI (RT)	3	524.0	1.149 Tonnes	42.2 Bushels
2016	LORNE	SOYBEANS	23-11RY (DEKALB) (RT)	5	765.0	1.126 Tonnes	41.4 Bushels
2015	LORNE	SOYBEANS	23-60RY (DEKALB) (RT)	14	2,371.0	1.125 Tonnes	41.3 Bushels
2017	THOMPSON	SOYBEANS	S007-Y4 RR2Y (SYNGENTA) (RT)	11	3,069.0	1.124 Tonnes	41.3 Bushels
2010	THOMPSON	SOYBEANS	25-04R (DEKALB) (RT)	6	1,088.0	1.119 Tonnes	41.1 Bushels
2009	THOMPSON	SOYBEANS	NSC PORTAGE RR (NORTHSTAR) (RT)	4	1,010.0	1.117 Tonnes	41.0 Bushels
2017	LORNE	SOYBEANS	P006T78R2 (PIONEER) (RT)	3	731.0	1.116 Tonnes	41.0 Bushels
2017	THOMPSON	SOYBEANS	24-12RY (DEKALB) (RT)	5	895.0	1.107 Tonnes	40.7 Bushels
2014	LORNE	SOYBEANS	24-10RY (DEKALB) (RT)	3	555.0	1.099 Tonnes	40.4 Bushels
2012	THOMPSON	SOYBEANS	PEKKO R2 (BRETT YOUNG) JA1025926I (RT)	4	720.0	1.096 Tonnes	40.3 Bushels



Desalegn Edossa &lt;desalegn.southmaneng@gmail.com&gt;

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**Data request Edossa SouthMan Eng Eagle Creek Colony 25-005-08W1**

1 message

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**Murray, Colin (SD)** <Colin.Murray@gov.mb.ca>  
To: Desalegn Edossa <desalegn.southmaneng@gmail.com>

Hi Desalegn

Thank you for your information request. I completed a search of the Manitoba Conservation Data Centre's (CDC) rare species of interest. This includes the primary location cited in your request: 25-005-08W1; the adjacent quarter sections; and adjacent allowances.

The search resulted in the following occurrences:

Within the primary location(s):

25-005-08W1 (Primary):

No listed or tracked species occurrences at this time.

(Surrounding quarters):

No listed or tracked species occurrences at this time.

Mile roads and road allowances:

No listed or tracked species occurrences at this time.

General area records low locational accuracy:

Vascular Plant, *Ostrya virginiana*, (Hop-hornbeam), MBCDC SRank: S2, Provincial ESEA: NA, SARA: NA, COSEWIC: NA.

Vascular Plant, *Cornus alternifolia*, (Alternate-leaved Dogwood), MBCDC SRank: S3, Provincial ESEA: NA, SARA: NA, COSEWIC: NA.

Vascular Plant, *Uvularia sessilifolia*, (Small Bellwort), MBCDC SRank: S2, Provincial ESEA: NA, SARA: NA, COSEWIC: NA.

Vascular Plant, *Sanguinaria canadensis*, (Blood-root), MBCDC SRank: S2, Provincial ESEA: NA, SARA: NA, COSEWIC: NA.

Vascular Plant, *Asarum canadense*, (Wild Ginger), MBCDC SRank: S3S4, Provincial ESEA: NA, SARA: NA, COSEWIC: NA.

Vertebrate Animal, *Coturnicops noveboracensis*, (Yellow Rail), MBCDC SRank: S3B, Provincial ESEA: NA, SARA: Special Concern.

Vascular Plant, *Phryma leptostachya*, (Lopseed), MBCDC SRank: S3, Provincial ESEA: NA, SARA: NA, COSEWIC: NA.

Vascular Plant, *Cryptotaenia canadensis*, (Canadian Honewort), MBCDC SRank: S1, Provincial ESEA: NA, SARA: NA, COSEW

Vascular Plant, *Carex emoryi*, (Emory's Sedge), MBCDC SRank: S2?, Provincial ESEA: NA, SARA: NA, COSEWIC: NA.

Found in broader area and similar habitat:

Vascular Plant, *Sanguinaria canadensis*, (Blood-root), MBCDC SRank: S2, Provincial ESEA: NA, SARA: NA, COSEWIC: NA.

Vertebrate Animal, *Dolichonyx oryzivorus*, (Bobolink), MBCDC SRank: S4B, Provincial ESEA: NA, SARA: Threatened, COSEW

Vertebrate Animal, *Hirundo rustica*, (Barn Swallow), MBCDC SRank: S4B, Provincial ESEA: NA, SARA: Threatened, COSEWIC

Vertebrate Animal, *Lithobates pipiens*, (Northern Leopard Frog), MBCDC SRank: S4, Provincial ESEA: NA, SARA: Special Co Concern.

Further information on this ranking system can be found on our website at: <http://www.gov.mb.ca/sd/cdc/constranks.ht>

These designations can be found at:

<http://web2.gov.mb.ca/laws/statutes/ccsm/e111e.php>,

<https://www.canada.ca/en/environment-climate-change/services/committee-status-endangered-wildlife.html> and

<http://www.sararegistry.gc.ca/default.asp?lang=En&n=24F7211B-1>.

Manitoba's recommended setback distances can be found at: <http://www.gov.mb.ca/sd/cdc/pubs.html>.

The information provided in this letter is based on existing data known to the Manitoba CDC of the Wildlife and Fisheries request. These data are dependent on the research and observations of CDC staff and others who have shared their data, state of knowledge. **An absence of data does not confirm the absence of any rare or endangered species.** Many areas have been thoroughly surveyed, however, and the absence of data in any particular geographic area does not necessarily mean communities of concern are not present. The information should, therefore, not be regarded as a final statement on the concern nor should it substitute for on-site surveys for species or environmental assessments. Also, because our Biotics database is updated and because information requests are evaluated by type of action, any given response is only appropriate for its

Please contact the Manitoba CDC for an update on this natural heritage information if more than six months passes before

Third party requests for products wholly or partially derived from the Biotics database must be approved by the Manitoba CDC before released. Once approved, the primary user will identify the Manitoba CDC as data contributors on any map or publication database, as the Manitoba Conservation Data Centre; Wildlife and Fisheries Branch, Manitoba Sustainable Development.

**This letter is for information purposes only - it does not constitute consent or approval of the proposed project or activity and does not need for any permits or approvals required by the Province of Manitoba.**

1/4/2019

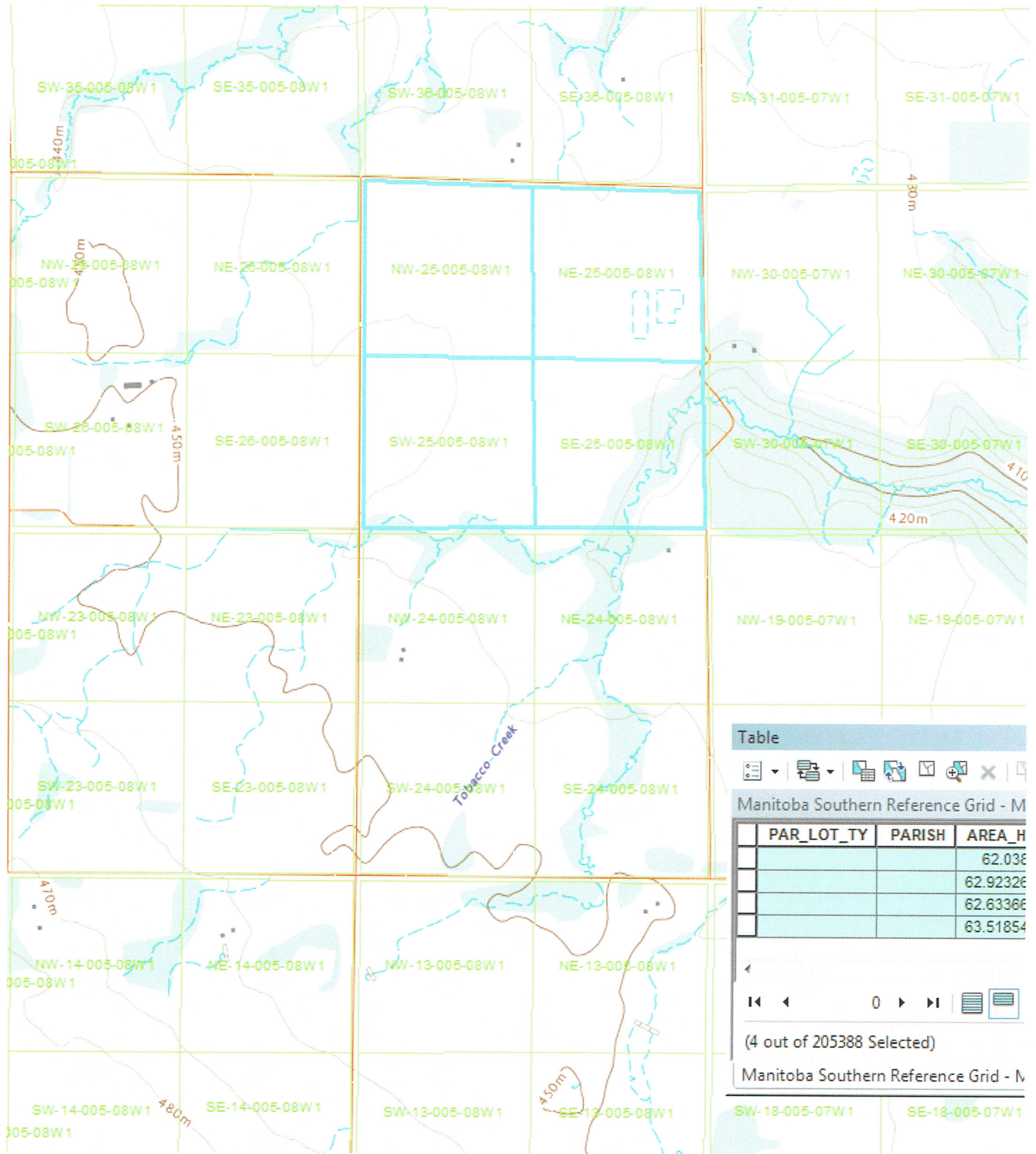
Gmail - Data request Edossa SouthMan Eng Eagle Creek Colony 25-005-08W1

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

If you have any questions or require further information contact me directly at (204) 945-7760.

Colin

Reference screen clip:



**Project Title\*:** Eagle Creek Cplony Ltd

**Date Needed:** 2018/12/24 (YYYY/MM/DD)

*(Please allow 10 working days to process an average data request or contact us to discuss a faster turnaround.)*

**Name\*:** Desalegn Edossa

**Company/Organization:** South-Man Engineering

**Address:** 8-851 Lagimodiere Blvd

**City:** winnipeg

**Province/State:** Manitoba

**Phone\*:** 2049639144

**Fax:**

**Email:** desalegn.southmaneng@gmail.com

**Project Description\*:** please enter a brief description of the project including how the information will be used.

The information will be used to determine the impacts on species by a proposed livestock operation.

**Format Requested\*:** please specify the format in which you would like to receive the data; i.e., ASCII text file, Microsoft Excel Spreadsheet, Microsoft Word Document, ArcView Shapefile, or map sent by fax, mail, or e-mail.

Microsoft Word Document as email attachment.

**Location\*:** please enter a detailed description of the project site and general location information. Include the legal description (qtr-sect-twp-rge-meridian) or the political, or natural boundary (i.e., Conservation District, provincial park, rural municipality, Reservation, ecoregion, watershed, etc.) of the area.

25-5-8W in the RM of Lorne