Clean Environment Condition Hearing

I own a 3rd generation mixed farm and operate it with my son. Our farm has always had livestock on it. In recent years the number of livestock has increased. We grow annual crops on 1100 acres, we also raise feeder pigs. We market around 5500 a year. We buy the pigs at 50 pounds and market them at 275 pounds.

We cover our earthen lagoon every summer with straw to minimize odour. Our lagoon is environmentally approved. Our manure is injected every fall. Our soil and our manure are tested for nutrients.

I have soil tests to show the phosphorus levels. I picked the field that is next to the barn. I have tests from 1995, 2004, 2006. We soil test every year but we don't apply manure every year to the same field. We increased our hog operation in 1997 and even with that there is no noticeable difference in phosphorus levels. This is field number 4 on the 1995 soil test. The field was number 7 and 8. The numbers were changed because we made larger fields to accommodate larger equipment.

I also have an agreement with a neighbour who applies manure to my land; again I have included the soil test.

This is field number 10; again the field is tested every year as well as the manure. I have included the years 1995, 2004, and 2006. That was the first year manure was applied to this land. Since 1996 this field has gotten manure every year. That is 11 consecutive years, again the nutrients levels are up for 06 and down for 04, but still remain in the low end of the scale. I have also included field number 11 that gets no manure to show the nutrients levels which is compatible to the manure fields.

On fields that don't get manure we apply fertilizer as per soil test recommendation to maximize our yields.

EXHIBIT NUMBER: FRL-012
File Name: Hog Review
Date: April 11, 2007
Received by: (Commission Secretary)

Stan Toews

OSTerwick Farms Inc.

SOIL TEST REPORT

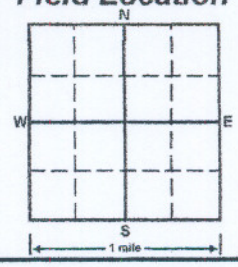
AGVISE LABORATORIES

Soil Analysis by Agvise Laboratories
Northwood: (701) 587-6010
Benson: (320) 843-4109

FIELD 4
CNTY
TWP
QTR
PREV. CROP **Wheat-Spring**

SAMPLE
SECTION
ACRES **65.0**

Field Location



SUBMITTED FOR:
OSTERWICK FARMS

SUBMITTED BY: **TE3082**
TERRAFLEX AG-NIVERV.
25 158 AVE SOUTH
BOX 356
NIVERVILLE, MB
R0A 1EO

REF# **10170176**
LAB# **43733**
BOX# **0**

Date Sampled:	8/18/06	Date Received:	8/24/06	Date Reported:	8/31/06

NUTRIENT IN THE SOIL		INTERPRETATION			
		VLow	Low	Med	High
Nitrate	0-6" 28 lb/ac 6-20" 30 lb/ac 0-20" 58 lb/ac	****	***		
Olsen Phosphorus	24 ppm	****	****	****	****
Potassium	277 ppm	****	****	****	****
Chloride	0-6" 57 lb/ac 6-20" 193 lb/ac	****	****	****	***
Sulfur	0-6" 92 lb/ac 6-20" 280 +lb/ac	**** ****	**** ****	**** ****	**** ****
Boron	2.5 ppm	****	****	****	****
Zinc	1.07 ppm	****	****	****	*
Iron	19.5 ppm	****	****	****	****
Manganese	2.0 ppm	****	****		
Copper	1.99 ppm	****	****	****	****
Magnesium	2240 ppm	****	****	****	****
Calcium	4802 ppm	****	****	****	****
Sodium	127 ppm	****	****	****	*
Org Matter	3.4 %	****	****	**	
Carbonate(CCE)	10.6 %	****	****	****	****
Sol. Salts	0-6" 0.75 mmho/cm 6-20" 0.87 mmho/cm	**** ****	**** ****	**** ****	 *

1ST CROP CHOICE		
Oats		
YIELD GOAL		
100 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	42	
P_2O_5	25	Broadcast
K_2O	10	Band(Starter)*
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2ND CROP CHOICE		
Wheat-Spring		
YIELD GOAL		
50 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	77	
P_2O_5	31	Broadcast
K_2O	10	Band(Starter)*
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3RD CROP CHOICE		
Canola-bu		
YIELD GOAL		
50 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	117	
P_2O_5	45	Broadcast
K_2O	0	
Cl	0	
S	10	Broadcast
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
8.4		43.9 meq	(65-75) 54.6	(15-20) 42.5	(1-7) 1.6	(0-5) 1.3	(0-5)

Crop 1: * Caution: Seed Placed Fertilzer Can Cause Injury * Crop Removal: P2O5 = 25 K2O = 19 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.
Crop 2: * Caution: Seed Placed Fertilzer Can Cause Injury * Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.
Crop 3: Crop Removal: P2O5 = 45 K2O = 23 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.

SOIL TEST REPORT

AGVISE LABORATORIES
P.O. BOX 510, NORTHWOOD, ND 58267
(701) 587-6010

FIELD 4
COUNTY
TWP
QTR
PREV CROP OATS
SAMPLE
SECTION
ACRES 80.0

N / W / E / S

REF # 8699218
LAB # 57599 BOX # 637

SUBMITTED FOR:

OSTERWICH FARMS

SUBMITTED BY:

TE3082
TERRAFLEX AG-NIVERV.
25 158 AVE SOUTH
BOX 356
NIVERVILLE MB ROA 1E0 CANADA

DATE SAMPLED 10/ 7/ 4
DATE RECEIVED 10/12/ 4
DATE REPORTED 10/13/04

NUTRIENT IN THE SOIL		INTERPRETATION (V LOW / LOW / MED / HIGH)
Nitrate N 0- 6"	15 lb/ac	
6-24"	30 lb/ac	
0-24"	45 lb/ac	********
Phosphorus	23 ppm	**********
Potassium	209 ppm	**********
Chloride 0-24"	104 lb/ac	**********
Sulfur 0- 6"	70 lb/ac	**********
6-24"	360+ lb/ac	**********
Boron	2.0 ppm	**********
Zinc	1.02 ppm	**********
Iron	14.1 ppm	**********
Manganese	1.6 ppm	**********
Copper	1.29 ppm	**********
Magnesium	1638 ppm	**********
Calcium	4687 ppm	**********
Sodium	72 ppm	**********
Organic Matter	3.8 %	**********
Carbonate (CCE)	9.5 %	**********
Soluble Salts 0- 6"	0.66 mmho/cm	**********
6-24"	0.93 mmho/cm	**********

1ST CROP CHOICE		
YIELD GOAL	CANOLA	
	50 BU	
SUGGESTED GUIDELINES		
P & K MAINTENANCE		
	LB/ACRE	APPLICATION
N	130	
P_2O_5	45	Broadcast
K_2O	22	Broadcast
Cl	0	
S	10	Broadcast
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime	0.0	

2ND CROP CHOICE		
YIELD GOAL	WHEAT	
	50 BU	
SUGGESTED GUIDELINES		
P & K MAINTENANCE		
	LB/ACRE	APPLICATION
N	90	
P_2O_5	31	Broadcast
K_2O	18	Broadcast
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime	0.0	

3RD CROP CHOICE		
YIELD GOAL		
SUGGESTED GUIDELINES		
	LB/ACRE	APPLICATION
N		
P_2O_5		
K_2O		
Cl		
S		
B		
Zn		
Fe		
Mn		
Cu		
Mg		
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
8.3		37.9 meq	(65-75) 61.8	(15-20) 36.0	(1-7) 1.4	(0-5) 0.8	(0-5)

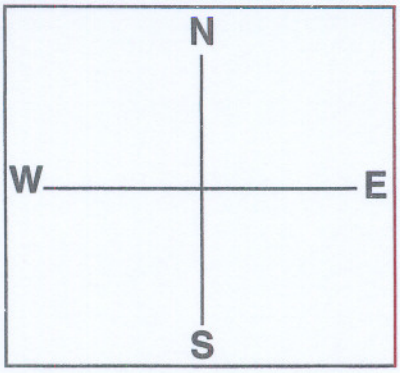
Crop Removal: Crop 1: P2O5= 45 K2O= 23 Crop 2: P2O5= 31 K2O= 19

AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.

AGVISE® LABORATORIES
P.O. BOX 510, NORTHWOOD, ND 58267
(701) 587-6010

SOIL TEST REPORT

FIELD 7 & 8 SAMPLE
COUNTY
TWP SECTION
QTR ACRES
PREV CROP WHEAT



SUBMITTED FOR:
STAN TOWES

SUBMITTED BY: TE3082
TERRAFLEX AG-NIVERV.
BOX 356
NIVERVILLE MB ROA 1E0

REF # 2403797
LAB # 59504 BOX # 1927

DATE SAMPLED DATE RECEIVED 10/ 7/95 DATE REPORTED 10/ 9/95

NUTRIENT IN THE SOIL			INTERPRETATION			
			V LOW	LOW	MED	HIGH
Nitrate N	0- 6"	11 lb/ac				
	6-24"	9 lb/ac				
	0-24"	20 lb/ac	####			
Phosphorus	Olsen	30 ppm				
Potassium		439 ppm				
Chloride						
Sulfur	0- 6"	18 lb/ac				
	6-24"	360+ lb/ac				
Boron		1.0 ppm				
Zinc		0.68 ppm				
Iron						
Manganese						
Copper						
Magnesium						
Calcium						
Sodium						
Organic Matter		4.0 %				
Soluble Salts	0- 6"	0.62 mmho/cm				
	6-24"	1.04 mmho/cm				

1ST CROP CHOICE		
WHEAT		
YIELD GOAL	60 BU	
SUGGESTED GUIDELINES		
P & K MAINTENANCE		
LB	/ACRE	APPLICATION
N	142	
P_2O_5	37	Broadcast
K_2O	10	Starter *
Cl		
S	0	
B	0	
Zn	5	Broadcast
Fe		
Mn		
Cu		
Mg		
Lime		

2ND CROP CHOICE		
MALTING BARLEY		
YIELD GOAL	90 BU	
SUGGESTED GUIDELINES		
P & K MAINTENANCE		
LB	/ACRE	APPLICATION
N	120	
P_2O_5	42	Broadcast
K_2O	10	Starter *
Cl		
S	0	
B	0	
Zn	5	Broadcast
Fe		
Mn		
Cu		
Mg		
Lime		

3RD CROP CHOICE		
MALTING BARLEY		
YIELD GOAL	100 BU	
SUGGESTED GUIDELINES		
P & K MAINTENANCE		
LB	/ACRE	APPLICATION
N	135	
P_2O_5	47	Broadcast
K_2O	10	Starter *
Cl		
S	0	
B	0	
Zn	5	Broadcast
Fe		
Mn		
Cu		
Mg		
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
8.4							

* CAUTION: SEED PLACED FERTILIZER CAN CAUSE INJURY *

AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.

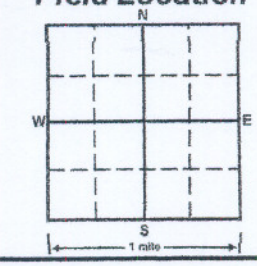
SOIL TEST REPORT

AGVISE LABORATORIES

Soil Analysis by Agvise Laboratories
Northwood: (701) 587-6010
Benson: (320) 843-4109

FIELD	10	SAMPLE	
CNTY	12		
TWP	7	SECTION	
QTR	4	ACRES	80.0
PREV. CROP	Wheat-Spring		

Field Location



SUBMITTED FOR:
OSTERWICK FARMS

SUBMITTED BY: TE3082
TERRAFLEX AG-NIVERV.
25 158 AVE SOUTH
BOX 356
NIVERVILLE, MB
R0A 1E0

REF# 10170170
LAB# 41983
BOX# 0

Date Sampled:	8/18/06	Date Received:	8/22/06	Date Reported:	8/31/06

NUTRIENT IN THE SOIL		INTERPRETATION VLow	Low	Med	High
Nitrate	0-6" 33 lb/ac 6-24" 15 lb/ac 0-24" 48 lb/ac	****	**		
Phosphorus	Olsen 26 ppm	****	****	****	****
Potassium	319 ppm	****	****	****	****
Chloride	0-24" 1772 lb/ac	****	****	****	****
Sulfur	0-6" 120 +lb/ac 6-24" 360 +lb/ac	****	****	****	****
Boron	2.4 ppm	****	****	****	****
Zinc	2.03 ppm	****	****	****	****
Iron	18.4 ppm	****	****	****	****
Manganese	1.0 ppm	****			
Copper	1.82 ppm	****	****	****	****
Magnesium	1900 ppm	****	****	****	****
Calcium	8483 ppm	****	****	****	****
Sodium	337 ppm	****	****	****	****
Org.Matter	3.9 %	****	****	***	
Carbonate(CCE)	11.1 %	****	****	****	****
Sol. Salts	0-6" 2.04 mmho/cm 6-24" 2.39 mmho/cm	****	****	****	****

1ST CROP CHOICE		
Canola-bu		
YIELD GOAL		
50 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	127	
P_2O_5	45	Broadcast
K_2O	0	
Cl	0	
S	10	Broadcast
B	0	
Zn	0	
Fe	0	
Mn	2	Broadcast
Cu	0	
Mg	0	
Lime		

2ND CROP CHOICE		
Barley-Malting		
YIELD GOAL		
90 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	92	
P_2O_5	42	Broadcast
K_2O	10	Band(Starter)*
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	2	Broadcast
Cu	0	
Mg	0	
Lime		

3RD CROP CHOICE		
Wheat-Spring		
YIELD GOAL		
50 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	87	
P_2O_5	31	Broadcast
K_2O	10	Band(Starter)*
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	2	Broadcast
Cu	0	
Mg	0	
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
8.1		60.5 meq	(65-75) 70.1	(15-20) 26.2	(1-7) 1.4	(0-5) 2.4	(0-5)

Crop 1: High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.
Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 42 K2O = 45 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.
Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.

AGVISE LABORATORIES

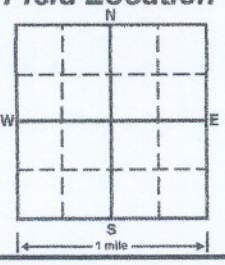
Soil Analysis by Agvise Laboratories
Northwood: (701) 587-6010
Benson: (320) 843-4109

SOIL TEST REPORT

FIELD 10
CNTY
TWP
QTR
PREV. CROP Oats

SAMPLE
SECTION
ACRES 80.0

Field Location



SUBMITTED FOR:
OSTERWICH FARMS

SUBMITTED BY: TE3082
TERRAFLEX AG-NIVERV.
25 158 AVE SOUTH
BOX 356
NIVERVILLE MB
ROA 1EO

REF# 8699212
LAB# 57590
BOX# 0

Date Sampled:	10/7/04	Date Received:	10/12/04	Date Reported:	10/14/04

NUTRIENT IN THE SOIL		INTERPRETATION			
		VLow	Low	Med.	High
Nitrate	0-6" 9 lb/ac 6-24" 21 lb/ac 0-24" 30 lb/ac	***			
Olsen Phosphorus	12 ppm	****	****	****	*
Potassium	254 ppm	****	****	****	****
Chloride	0-24" 1276 lb/ac	****	****	****	****
Sulfur	0-6" 120 +lb/ac 6-24" 360 +lb/ac	****	****	****	****
		****	****	****	****
Boron	3.2 ppm	****	****	****	****
Zinc	1.64 ppm	****	****	****	***
Iron	22.2 ppm	****	****	****	****
Manganese	1.6 ppm	****	***		
Copper	1.37 ppm	****	****	****	****
Magnesium	1838 ppm	****	****	****	****
Calcium	7121 ppm	****	****	****	****
Sodium	331 ppm	****	****	****	****
Org.Matter	4.5 %	****	****	****	
Carbonate(CCE)	12.3 %	****	****	****	****
Soil Salts	0-6" 1.91 mmho/cm 6-24" 3.12 mmho/cm	****	****	****	****
		****	****	****	****

1ST CROP CHOICE		
Barley-Malting		
YIELD GOAL		
90 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	110	
P_2O_5	54	Broadcast
K_2O	10	Band(Starter)*
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2ND CROP CHOICE		
Wheat-Spring		
YIELD GOAL		
50 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	105	
P_2O_5	43	Broadcast
K_2O	10	Band(Starter)*
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3RD CROP CHOICE		
Canola-bu		
YIELD GOAL		
50 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	145	
P_2O_5	68	Broadcast
K_2O	0	
Cl	0	
S	10	Broadcast
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
8.0		53.0 meq	(65-75) 67.2	(15-20) 28.9	(1-7) 1.2	(0-5) 2.7	(0-5)

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 42 K2O = 45 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.
Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.
Crop 3: High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.

AGVISE LABORATORIES

P.O. BOX 510, NORTHWOOD, ND 58267
(701) 587-6010

SOIL TEST REPORT

FIELD 10 SAMPLE
COUNTY
TWP SECTION
QTR ACRES
PREV CROP WHEAT

N / W / E / S

SUBMITTED FOR:

STAN TOWES

SUBMITTED BY: TE3082

TERRAFLEX AG-NIVERV.
BOX 356

NIVERVILLE MB ROA 1E0

REF # 2403798
LAB # 59507 BOX # 1935

DATE SAMPLED DATE RECEIVED 10/ 7/95 DATE REPORTED 10/ 9/95

NUTRIENT IN THE SOIL			INTERPRETATION			
			V LOW	LOW	MED	HIGH
	0- 6"	22 lb/ac				
	6-24"	45 lb/ac				
itrate N	0-24"	67 lb/ac	##########			
hosphorus	Olsen	19 ppm	##########	##########	##########	##########
otassium		251 ppm	##########	##########	##########	##########
hloride						
ulfur	0- 6"	50 lb/ac	##########	##########	##########	##########
	6-24"	360+ lb/ac	##########	##########	##########	##########
oron		1.0 ppm	##########	##########		
inc		0.62 ppm	##########	##########		
on						
langanese						
opper						
lagnesium						
alcium						
odium						
rganic latter		4.4 %	##########	##########	##########	##########
oluble alts	0- 6"	0.65 mmho/cm	##########	##########		
	6-24"	1.06 mmho/cm	##########	##########	##########	##########

1ST CROP CHOICE		
WHEAT		
YIELD GOAL 60 BU		
SUGGESTED GUIDELINES		
P & K MAINTENANCE		
LB /ACRE		APPLICATION
N	95	
P_2O_5	37	Broadcast
K_2O	22	Broadcast
Cl		
S	0	
B	0	
Zn	4	Broadcast
Fe		
Mn		
Cu		
Mg		
Lime		

2ND CROP CHOICE		
SUGAR BEETS		
YIELD GOAL 18 TONS		
SUGGESTED GUIDELINES		
P & K MAINTENANCE		
LB /ACRE		APPLICATION
N	41	
P_2O_5	31	Broadcast
K_2O	54	Broadcast
Cl		
S	0	
B	0	
Zn	2	Broadcast
Fe		
Mn		
Cu		
Mg		
Lime		

3RD CROP CHOICE		
SUGAR BEETS		
YIELD GOAL 20 TONS		
SUGGESTED GUIDELINES		
P & K MAINTENANCE		
LB /ACRE		APPLICATION
N	53	
P_2O_5	35	Broadcast
K_2O	60	Broadcast
Cl		
S	0	
B	0	
Zn	4	Broadca.
Fe		
Mn		
Cu		
Mg		
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
8.3							

AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.

AGVISE LABORATORIES

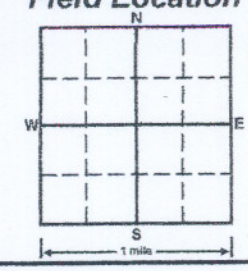
Soil Analysis by Agvise Laboratories
Northwood: (701) 587-6010
Benson: (320) 843-4109

SOIL TEST REPORT

FIELD 11
CNTY
TWP
QTR
PREV. CROP Oats

SAMPLE
SECTION
ACRES 100.0

Field Location



SUBMITTED FOR:
OSTERWICK FARMS

SUBMITTED BY: TE3082
TERRAFLEX AG-NIVERV.
25 158 AVE SOUTH
BOX 356
NIVERVILLE, MB
R0A 1E0

REF# 10242691
LAB# 43735
BOX# 0

Date Sampled:	8/18/06	Date Received:	8/24/06	Date Reported:	8/31/06

NUTRIENT IN THE SOIL		INTERPRETATION			
		VLOW	Low	Med	High
Nitrate	0-6" 29 lb/ac 6-18" 14 lb/ac 0-18" 43 lb/ac	****	*		
Olsen Phosphorus	28 ppm	****	****	***	****
Potassium	306 ppm	****	****	****	****
Chloride	0-6" 162 lb/ac 6-18" 534 lb/ac	****	****	****	****
Sulfur	0-6" 120 +lb/ac 6-18" 240 +lb/ac	****	****	****	****
Boron	2.5 ppm	****	****	****	****
Zinc	1.48 ppm	****	****	****	***
Iron	21.2 ppm	****	****	****	****
Manganese	2.6 ppm	****	****	***	
Copper	2.19 ppm	****	****	****	****
Magnesium	2225 ppm	****	****	****	****
Calcium	5610 ppm	****	****	****	****
Sodium	167 ppm	****	****	****	****
Org.Matter	3.9 %	****	****	***	
Carbonate(CCE)	7.2 %	****	****	****	****
Sol. Salts	0-6" 1.04 mmho/cm 6-18" 1.05 mmho/cm	****	****	****	**

1ST CROP CHOICE			2ND CROP CHOICE			3RD CROP CHOICE		
Wheat-Spring			Soybeans			Canola-bu		
YIELD GOAL			YIELD GOAL			YIELD GOAL		
50 BU			40 BU			50 BU		
SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
Broadcast/Maint.			Broadcast/Maint.			Broadcast/Maint.		
LB/ACRE		APPLICATION	LB/ACRE		APPLICATION	LB/ACRE		APPLICATION
N	92		N	17		N	132	
P_2O_5	31	Broadcast	P_2O_5	35	Broadcast	P_2O_5	45	Broadcast
K_2O	10	Band(Starter)*	K_2O	0		K_2O	0	
Cl	0		Cl	0		Cl	0	
S	0		S	0		S	10	Broadcast
B	0		B	0		B	0	
Zn	0		Zn	0		Zn	0	
Fe	0		Fe	0		Fe	0	
Mn	0		Mn	0		Mn	0	
Cu	0		Cu	0		Cu	0	
Mg	0		Mg	0		Mg	0	
Lime			Lime			Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
8.2		48.1 meq	(65-75) 58.3	(15-20) 38.5	(1-7) 1.6	(0-5) 1.5	(0-5)

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.
Crop 2: Soybeans may become nitrogen deficient on fields with no soybean history and a nitrate level less than 60 lb/a. Extra nitrogen may be beneficial on these fields. The risk of the development of iron chlorosis on soybeans on this field is extreme based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.
Crop 3: Crop Removal: P2O5 = 45 K2O = 23 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.