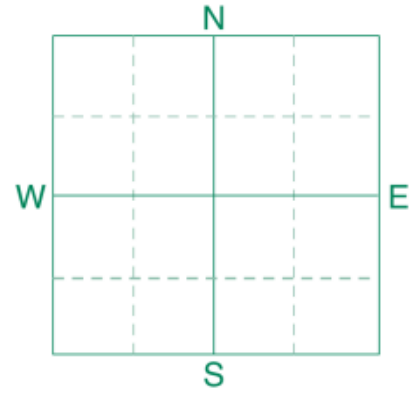




Soil Analysis by Agvise Laboratories
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 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **NE17**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **17** QTR **NE** ACRES **163**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB **ROA 0W0**

REF # **3569005** BOX # **3180**
 LAB # **NW263376**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
		VLow	Low	Med	High							
Nitrate	0-6" 6-24"	20 lb/acre 42 lb/acre				Canola-bu		Wheat-Spring		Grass/Pasture		
						YIELD GOAL		YIELD GOAL		YIELD GOAL		
	0-24"	62 lb/acre				50 BU		60 BU		4 Tons		
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
						Band		Band		Band		
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Olsen	8 ppm					N	113	N	100	N	58	
Phosphorus						P ₂ O ₅	43 Band *	P ₂ O ₅	35 Band *	P ₂ O ₅	28 Band *	
Potassium	349 ppm					K ₂ O	0	K ₂ O	10 Band (Starter)*	K ₂ O	0	
Chloride						Cl		Cl		Cl		
Sulfur	0-6" 6-24"	34 lb/acre 48 lb/acre				S	10 Band	S	0	S	0	
Boron						B		B		B		
Zinc						Zn		Zn		Zn		
Iron						Fe		Fe		Fe		
Manganese						Mn		Mn		Mn		
Copper						Cu		Cu		Cu		
Magnesium						Mg		Mg		Mg		
Calcium						Lime		Lime		Lime		
Sodium												
Org.Matter												
Carbonate(CCE)												
Sol. Salts	0-6"	0.39 mmho/cm				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)			
	6-24"	0.38 mmho/cm				0-6" 7.8			% Ca	% Mg	% K	% Na
						6-24" 8.2						

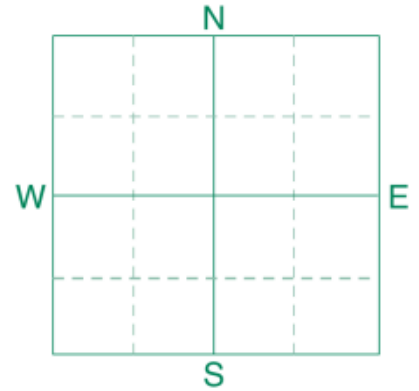
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



Soil Analysis by Agvise Laboratories
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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **NW17**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **17** QTR **NW** ACRES **99**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB ROA 0W0

REF # **3569006** BOX # **3148**
 LAB # **NW263377**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice						
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture						
Nitrate	0-6" 6-24"	20 lb/acre 42 lb/acre					YIELD GOAL			YIELD GOAL			YIELD GOAL					
	0-24"	62 lb/acre					50 BU			60 BU			4 Tons					
							SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES					
							Band			Band			Band					
	Olsen	11 ppm					LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION				
Phosphorus							N	113		N	100		N	58				
Potassium		307 ppm					P ₂ O ₅	35	Band *	P ₂ O ₅	29	Band *	P ₂ O ₅	21	Band *			
Chloride							K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	0				
Sulfur	0-6" 6-24"	32 lb/acre 300 lb/acre					Cl			Cl			Cl					
Boron							S	10	Band	S	0		S	0				
Zinc							B			B			B					
Iron							Zn			Zn			Zn					
Manganese							Fe			Fe			Fe					
Copper							Mn			Mn			Mn					
Magnesium							Cu			Cu			Cu					
Calcium							Mg			Mg			Mg					
Sodium							Lime			Lime			Lime					
Org.Matter							Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)		
Carbonate(CCE)																		
Sol. Salts	0-6" 6-24"	0.39 mmho/cm 0.59 mmho/cm					0-6"	7.9		6-24"	8.6		% Ca	% Mg	% K	% Na	% H	

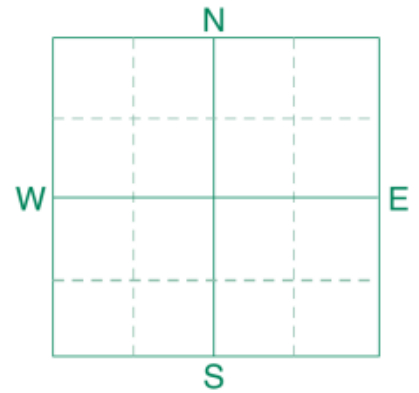
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **SW17**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **17** QTR **SW** ACRES **149**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB ROA 0W0

REF # **3569007** BOX # **3148**
 LAB # **NW263378**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	14 lb/acre 12 lb/acre				Canola-bu		Wheat-Spring		Grass/Pasture				
						YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	26 lb/acre				50 BU		60 BU		4 Tons				
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band		Band		Band				
Olsen	7 ppm					LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus						N	149	N	136	N	94			
Potassium	328 ppm					P ₂ O ₅	45 Band *	P ₂ O ₅	37 Band *	P ₂ O ₅	31 Band *			
Chloride						K ₂ O	0	K ₂ O	10 Band (Starter)*	K ₂ O	0			
Sulfur	0-6" 6-24"	10 lb/acre 42 lb/acre				Cl		Cl		Cl				
Boron						S	17 Band	S	7 Band (Trial)	S	7 Band (Trial)			
Zinc						B		B		B				
Iron						Zn		Zn		Zn				
Manganese						Fe		Fe		Fe				
Copper						Mn		Mn		Mn				
Magnesium						Cu		Cu		Cu				
Calcium						Mg		Mg		Mg				
Sodium						Lime		Lime		Lime				
Org.Matter						Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)						Buffer pH				% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.34 mmho/cm 0.35 mmho/cm				0-6" 7.9								
						6-24" 8.1								

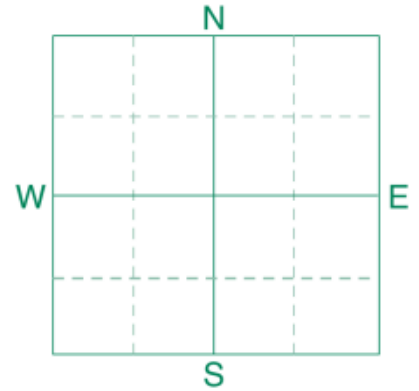
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **SE17**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **17** QTR **SE** ACRES **109**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB ROA 0W0

REF # **3569008** BOX # **3173**
 LAB # **NW263379**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice				
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture				
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL				
		*****				50 BU			60 BU			4 Tons				
	0-24"	*****				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				
		*****				Band			Band			Band				
		*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION			
Phosphorus	Olsen 11 ppm	*****				N	117		N	104		N	62			
Potassium	372 ppm	*****				P ₂ O ₅	35	Band *	P ₂ O ₅	29	Band *	P ₂ O ₅	21	Band *		
Chloride		*****				K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	0			
Sulfur	0-6" 6-24"	*****				Cl			Cl			Cl				
		*****				S	10	Band	S	0		S	0			
Boron						B			B			B				
Zinc						Zn			Zn			Zn				
Iron						Fe			Fe			Fe				
Manganese						Mn			Mn			Mn				
Copper						Cu			Cu			Cu				
Magnesium						Mg			Mg			Mg				
Calcium						Lime			Lime			Lime				
Sodium																
Org.Matter																
Carbonate(CCE)																
Sol. Salts	0-6"	*****				Soil pH	Buffer pH		Cation Exchange Capacity			% Base Saturation (Typical Range)				
	6-24"	*****				0-6" 7.4						% Ca	% Mg	% K	% Na	% H
	0.51 mmho/cm					6-24" 8.3										
	0.44 mmho/cm															

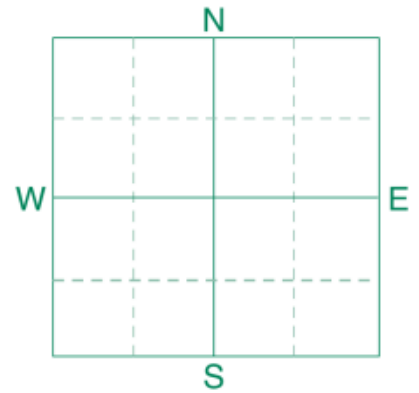
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



Soil Analysis by Agvise Laboratories
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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **NE18**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **18** QTR **NE** ACRES **131**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB ROA OWO

REF # **3569009** BOX # **3188**
 LAB # **NW263380**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice				
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture				
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL				
						50 BU			60 BU			4 Tons				
	0-24"	*****				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				
						Band			Band			Band				
Phosphorus	Olsen	*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION			
						N	140		N	127		N	85			
Potassium	334 ppm	*****				P ₂ O ₅	20	Band *	P ₂ O ₅	17	Band *	P ₂ O ₅	6	Band *		
Chloride						K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	0			
	0-6" 6-24"	*****				Cl			Cl			Cl				
Sulfur	120 +lb/acre 360 +lb/acre	*****				S	10	Band	S	0		S	0			
Boron						B			B			B				
Zinc						Zn			Zn			Zn				
Iron						Fe			Fe			Fe				
Manganese						Mn			Mn			Mn				
Copper						Cu			Cu			Cu				
Magnesium						Mg			Mg			Mg				
Calcium						Lime			Lime			Lime				
Sodium																
Org.Matter																
Carbonate(CCE)																
Sol. Salts	0-6"	*****				Soil pH	Buffer pH		Cation Exchange Capacity			% Base Saturation (Typical Range)				
	6-24"	*****				0-6" 7.3						% Ca	% Mg	% K	% Na	% H
	0.62 mmho/cm 0.62 mmho/cm	*****				6-24" 8.0										

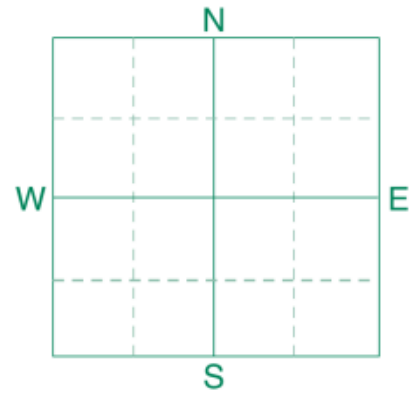
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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SOIL TEST REPORT

FIELD ID **SE18**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **18** QTR **SE** ACRES **136**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB **ROA 0W0**

REF # **3569010** BOX # **3104**
 LAB # **NW263381**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture		
Nitrate	0-6" 6-24"	17 lb/acre 15 lb/acre				YIELD GOAL			YIELD GOAL			YIELD GOAL		
	0-24"	32 lb/acre	*****			50 BU			60 BU			4 Tons		
						SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band			Band			Band		
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
Olsen	25 ppm	*****				N	143		N	130		N	88	
Phosphorus						P ₂ O ₅	10	Band (Starter)*	P ₂ O ₅	15	Band (Starter)*	P ₂ O ₅	0	
Potassium	406 ppm	*****				K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	0	
Chloride						Cl			Cl			Cl		
Sulfur	0-6" 6-24"	18 lb/acre 54 lb/acre	*****			S	15	Band	S	5	Band (Trial)	S	5	Band (Trial)
Boron						B			B			B		
Zinc						Zn			Zn			Zn		
Iron						Fe			Fe			Fe		
Manganese						Mn			Mn			Mn		
Copper						Cu			Cu			Cu		
Magnesium						Mg			Mg			Mg		
Calcium						Lime			Lime			Lime		
Sodium														
Org.Matter														
Carbonate(CCE)														
Sol. Salts	0-6"	0.39 mmho/cm	*****			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)					
	6-24"	0.38 mmho/cm	*****			0-6" 7.9			% Ca	% Mg	% K	% Na	% H	
						6-24" 8.1								

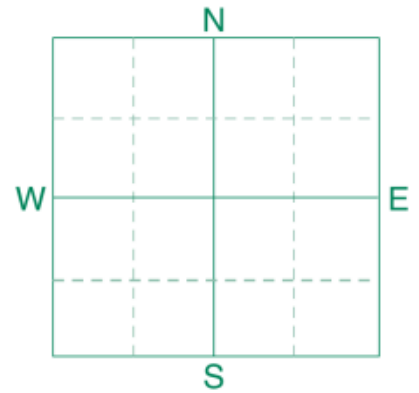
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **NW8**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **8** QTR **NW** ACRES **109**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB **ROA OWO**

REF # **3569011** BOX # **3173**
 LAB # **NW263382**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice				
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture				
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL				
		*****				50 BU			60 BU			4 Tons				
	0-24"	*****				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				
		*****				Band			Band			Band				
Phosphorus	Olsen	*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION			
		*****				N	117		N	104		N	62			
Potassium	494 ppm	*****				P ₂ O ₅	30	Band *	P ₂ O ₅	25	Band *	P ₂ O ₅	16	Band *		
Chloride		*****				K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	0			
	0-6" 6-24"	*****				Cl			Cl			Cl				
Sulfur	120 +lb/acre 360 +lb/acre	*****				S	10	Band	S	0		S	0			
Boron		*****				B			B			B				
Zinc		*****				Zn			Zn			Zn				
Iron		*****				Fe			Fe			Fe				
Manganese		*****				Mn			Mn			Mn				
Copper		*****				Cu			Cu			Cu				
Magnesium		*****				Mg			Mg			Mg				
Calcium		*****				Lime			Lime			Lime				
Sodium		*****														
Org.Matter		*****														
Carbonate(CCE)		*****														
Sol. Salts	0-6"	*****				Soil pH	Buffer pH		Cation Exchange Capacity			% Base Saturation (Typical Range)				
	6-24"	*****				0-6"	7.3					% Ca	% Mg	% K	% Na	% H
	1.49 mmho/cm	*****				6-24"	7.9									

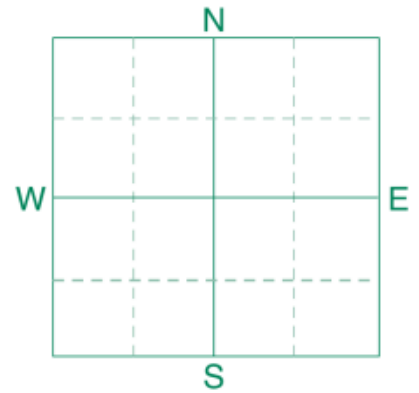
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **NE8**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **8** QTR **NE** ACRES **178**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB ROA OWO

REF # **3569012** BOX # **3173**
 LAB # **NW263383**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture		
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL		
						50 BU			60 BU			4 Tons		
	0-24"	*****				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band			Band			Band		
Phosphorus	Olsen	*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
						N	139		N	126		N	84	
Potassium		*****				P ₂ O ₅	28	Band *	P ₂ O ₅	23	Band *	P ₂ O ₅	13	Band *
Chloride		*****				K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	0	
	0-6" 6-24"	*****				Cl			Cl			Cl		
Sulfur		*****				S	10	Band	S	0		S	0	
Boron						B			B			B		
Zinc						Zn			Zn			Zn		
Iron						Fe			Fe			Fe		
Manganese						Mn			Mn			Mn		
Copper						Cu			Cu			Cu		
Magnesium						Mg			Mg			Mg		
Calcium						Lime			Lime			Lime		
Sodium						Soil pH			Cation Exchange Capacity			% Base Saturation (Typical Range)		
Org.Matter						Buffer pH			% Ca	% Mg	% K	% Na	% H	
Carbonate(CCE)						0-6" 7.4								
Sol. Salts	0-6"	*****				6-24" 8.2								

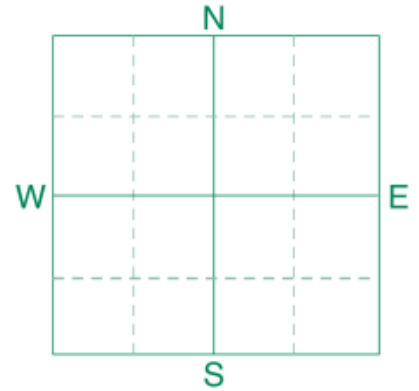
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **SW15**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **15** QTR **SW** ACRES **138**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB ROA OWO

REF # **3569013** BOX # **3180**
 LAB # **NW263384**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture		
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL		
	13 lb/acre 12 lb/acre					50 BU			60 BU			4 Tons		
	0-24"					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
	25 lb/acre					Band			Band			Band		
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
Phosphorus	Olsen 10 ppm	*****				N	150		N	137		N	95	
Potassium	380 ppm	*****				P ₂ O ₅	38	Band *	P ₂ O ₅	31	Band *	P ₂ O ₅	23	Band *
Chloride						K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	0	
Sulfur	0-6" 6-24"	*****				Cl			Cl			Cl		
	86 lb/acre 360 +lb/acre	*****				S	10	Band	S	0		S	0	
Boron						B			B			B		
Zinc						Zn			Zn			Zn		
Iron						Fe			Fe			Fe		
Manganese						Mn			Mn			Mn		
Copper						Cu			Cu			Cu		
Magnesium						Mg			Mg			Mg		
Calcium						Lime			Lime			Lime		
Sodium														
Org.Matter														
Carbonate(CCE)														
	0-6" 6-24"	*****				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)					
	0.52 mmho/cm 1.07 mmho/cm	*****							% Ca	% Mg	% K	% Na	% H	
Sol. Salts						0-6" 7.5								
						6-24" 7.9								

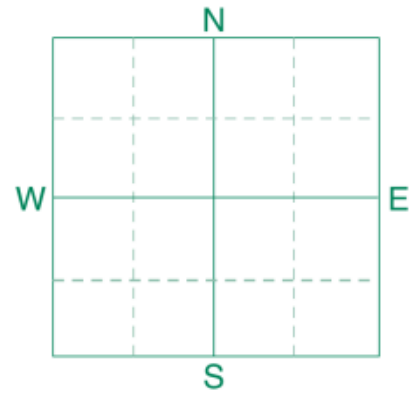
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



Soil Analysis by Agvise Laboratories
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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **NW10**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **10** QTR **NW** ACRES **149**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB **ROA 0W0**

REF # **3569014** BOX # **3173**
 LAB # **NW263385**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture		
Nitrate	0-6" 6-24"	13 lb/acre 12 lb/acre	*****											
	0-24"	25 lb/acre				YIELD GOAL	YIELD GOAL	YIELD GOAL						
						50 BU	60 BU	4 Tons						
						SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES						
						Band	Band	Band						
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Olsen	8 ppm	*****				N	150		N	137		N	95	
Phosphorus						P ₂ O ₅	43	Band *	P ₂ O ₅	35	Band *	P ₂ O ₅	28	Band *
Potassium	357 ppm	*****				K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	0	
Chloride						Cl			Cl			Cl		
Sulfur	0-6" 6-24"	28 lb/acre 102 lb/acre	*****			S	15	Band	S	0		S	0	
Boron						B			B			B		
Zinc						Zn			Zn			Zn		
Iron						Fe			Fe			Fe		
Manganese						Mn			Mn			Mn		
Copper						Cu			Cu			Cu		
Magnesium						Mg			Mg			Mg		
Calcium						Lime			Lime			Lime		
Sodium														
Org.Matter														
Carbonate(CCE)														
Sol. Salts	0-6"	0.41 mmho/cm	*****			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)					
	6-24"	0.35 mmho/cm	*****			0-6" 7.4			% Ca	% Mg	% K	% Na	% H	
						6-24" 8.0								

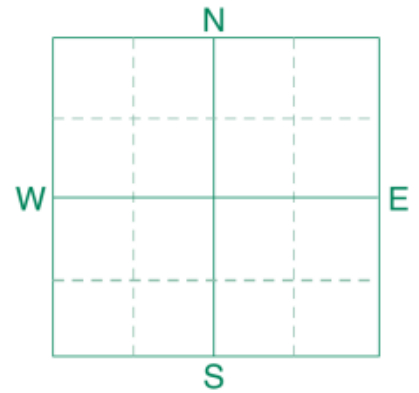
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **SE21**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **21** QTR **SE** ACRES **153**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB **ROA 0W0**

REF # **3569015** BOX # **3180**
 LAB # **NW263386**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High								
Nitrate	0-6" 6-24"	21 lb/acre 42 lb/acre			Canola-bu		Wheat-Spring		Grass/Pasture	
					YIELD GOAL		YIELD GOAL		YIELD GOAL	
	0-24"	63 lb/acre			50 BU		60 BU		4 Tons	
					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
					Band		Band		Band	
					LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Olsen	7 ppm	*****	N	112	N	99	N	57		
Phosphorus			P ₂ O ₅	45 Band *	P ₂ O ₅	37 Band *	P ₂ O ₅	31 Band *		
Potassium	323 ppm	*****	K ₂ O	0	K ₂ O	10 Band (Starter)*	K ₂ O	0		
Chloride			Cl		Cl		Cl			
Sulfur	0-6" 6-24"	74 lb/acre 198 lb/acre	S	10 Band	S	0	S	0		
Boron			B		B		B			
Zinc			Zn		Zn		Zn			
Iron			Fe		Fe		Fe			
Manganese			Mn		Mn		Mn			
Copper			Cu		Cu		Cu			
Magnesium			Mg		Mg		Mg			
Calcium			Lime		Lime		Lime			
Sodium										
Org.Matter										
Carbonate(CCE)										
Sol. Salts	0-6"	0.53 mmho/cm								
	6-24"	0.55 mmho/cm								
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						% Ca	% Mg	% K	% Na	% H
			0-6" 7.8							
			6-24" 8.3							

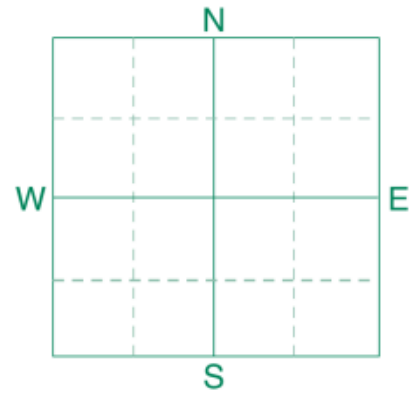
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **SW21**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **21** QTR **SW** ACRES **136**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB ROA 0W0

REF # **3569016** BOX # **3168**
 LAB # **NW263387**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
		VLow Low Med High	Canola-bu		Wheat-Spring		Grass/Pasture		
Nitrate	0-6" 6-24"	21 lb/acre 33 lb/acre	YIELD GOAL		YIELD GOAL		YIELD GOAL		
	0-24"	54 lb/acre	50 BU		60 BU		4 Tons		
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
			Band		Band		Band		
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Phosphorus	Olsen	8 ppm	N	121	N	108	N	66	
Potassium		407 ppm	P ₂ O ₅	43 Band *	P ₂ O ₅	35 Band *	P ₂ O ₅	28 Band *	
Chloride			K ₂ O	0	K ₂ O	10 Band (Starter)*	K ₂ O	0	
Sulfur	0-6" 6-24"	64 lb/acre 258 lb/acre	Cl		Cl		Cl		
Boron			S	10 Band	S	0	S	0	
Zinc			B		B		B		
Iron			Zn		Zn		Zn		
Manganese			Fe		Fe		Fe		
Copper			Mn		Mn		Mn		
Magnesium			Cu		Cu		Cu		
Calcium			Mg		Mg		Mg		
Sodium			Lime		Lime		Lime		
Org.Matter			Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)		
Carbonate(CCE)			Buffer pH				% Ca	% Mg	% K
							% Na	% H	
Sol. Salts	0-6" 6-24"	0.51 mmho/cm 0.54 mmho/cm	0-6"	7.9					
			6-24"	8.2					

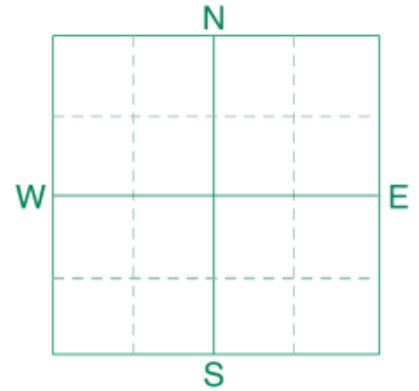
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **SE20**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **20** QTR **SE** ACRES **133**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB **ROA OWO**

REF # **3569017** BOX # **3144**
 LAB # **NW263388**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Canola-bu		Wheat-Spring		Grass/Pasture				
Nitrate	0-6" 6-24"	17 lb/acre 27 lb/acre				YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	44 lb/acre				50 BU		60 BU		4 Tons				
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band		Band		Band				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Olsen	5 ppm					N	131	N	118	N	76			
Phosphorus						P ₂ O ₅	50 Band *	P ₂ O ₅	41 Band *	P ₂ O ₅	36 Band *			
Potassium	390 ppm					K ₂ O	0	K ₂ O	10 Band (Starter)*	K ₂ O	0			
Chloride						Cl		Cl		Cl				
Sulfur	0-6" 6-24"	120 +lb/acre 360 +lb/acre				S	10 Band	S	0	S	0			
Boron						B		B		B				
Zinc						Zn		Zn		Zn				
Iron						Fe		Fe		Fe				
Manganese						Mn		Mn		Mn				
Copper						Cu		Cu		Cu				
Magnesium						Mg		Mg		Mg				
Calcium						Lime		Lime		Lime				
Sodium														
Org.Matter														
Carbonate(CCE)														
						Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
										% Ca	% Mg	% K	% Na	% H
						0-6" 7.7								
Sol. Salts	0-6" 6-24"	0.78 mmho/cm 1.11 mmho/cm				6-24" 8.0								

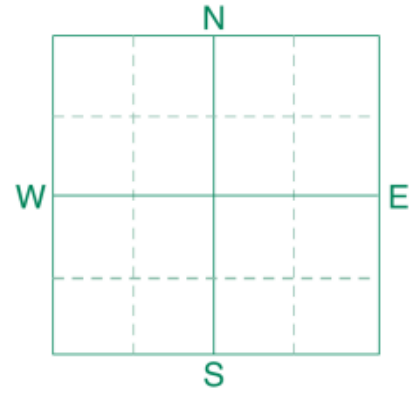
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **NE20**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **2** RANGE **23-W**
 SECTION **20** QTR **NE** ACRES **175**
 PREV. CROP



SUBMITTED FOR:
Proposed SE-17-2-23

SUBMITTED BY: **HY4851**
HYLIFE LTD.
5 FABAS STREET
BOX 100
LA BROQUERIE, MB ROA 0W0

REF # **3569018** BOX # **3148**
 LAB # **NW263389**

Date Sampled

Date Received **12/14/2021**

Date Reported **12/15/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice				
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture				
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL				
		*****				50 BU			60 BU			4 Tons				
	0-24"	*****				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				
		*****				Band			Band			Band				
Phosphorus	Olsen	*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION			
		*****				N	96		N	83		N	41			
Potassium	495 ppm	*****				P ₂ O ₅	25	Band *	P ₂ O ₅	21	Band *	P ₂ O ₅	11	Band *		
Chloride		*****				K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	0			
	0-6" 6-24"	*****				Cl			Cl			Cl				
Sulfur	120 +lb/acre 360 +lb/acre	*****				S	10	Band	S	0		S	0			
Boron		*****				B			B			B				
Zinc		*****				Zn			Zn			Zn				
Iron		*****				Fe			Fe			Fe				
Manganese		*****				Mn			Mn			Mn				
Copper		*****				Cu			Cu			Cu				
Magnesium		*****				Mg			Mg			Mg				
Calcium		*****				Lime			Lime			Lime				
Sodium		*****														
Org.Matter		*****														
Carbonate(CCE)		*****														
Sol. Salts	0-6"	*****				Soil pH	Buffer pH		Cation Exchange Capacity			% Base Saturation (Typical Range)				
	6-24"	*****				0-6" 7.6						% Ca	% Mg	% K	% Na	% H
	0.81 mmho/cm 2.41 mmho/cm	*****				6-24" 8.1										

Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.