

Report Number: C18150-10003  
 Account Number:

# A & L Canada Laboratories Inc.

2136 Jetstream Road, London, Ontario, N5V 3P5  
 Telephone: (519) 457-2575 Fax: (519) 457-2664



To:

For:

Farm:

Reported Date: 2018-06-11 Printed Date: Sep 6, 2018

## VitTellus Soil Test Report

Page: 1 / 1

Sample Number	Lab Number	Organic Matter	Phosphorus - P ppm Bicarb Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	pH	CEC meq/100g	Percent Base Saturations						
								pH Buffer		% K	% Mg	% Ca	% H	% Na		
SOILHEALTH	65169	1.2	135 H	417 H	106 M	71 M	540 M	10 M	6.0	6.9	4.8	5.7	12.3	56.3	24.8	0.9

Sample Number	Sulfur S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al	Nitrate Nitrogen NO3-N ppm	K/Mg Ratio	ENR	Field ID	Chloride Cl ppm
SOILHEALTH	16 VH	12.2 VH	58 VH	103 VH	0.7 M	0.1 VL	0.3 VL	46 H	1162	2.2 MT	13 M	0.46	24		17 M

OE VL = VERY LOW, L = LOW, M = MEDIUM, H = HIGH, VH = VERY HIGH, G = GOOD, MA = MARGINAL, MT = MODERATE PHYTO-TOXIC, T = PHYTO-TOXIC, ST = SEVERE PHYTO-TOXIC

### SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Crop	Yield Goal	Lime Tons/Acre	N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B

The results of this report relate to the sample submitted and analyzed.

\* Crop yield is influenced by a number of factors in addition to soil fertility.

No guarantee or warranty concerning crop performance is made by A & L.

A&L Canada Laboratories Inc. is accredited by the Standards Council of Canada for specific tests as listed on www.scc.ca and by the Canadian Association for Laboratory Accreditation as listed on www.cala.ca

Additional information available upon request

Results Authorized By:

Ian McLachlin, Vice President

Report Number: C18150-10003  
 Account Number:

# A & L Canada Laboratories Inc.

2136 Jetstream Road, London, Ontario, N5V 3P5  
 Telephone: (519) 457-2575 Fax: (519) 457-2664

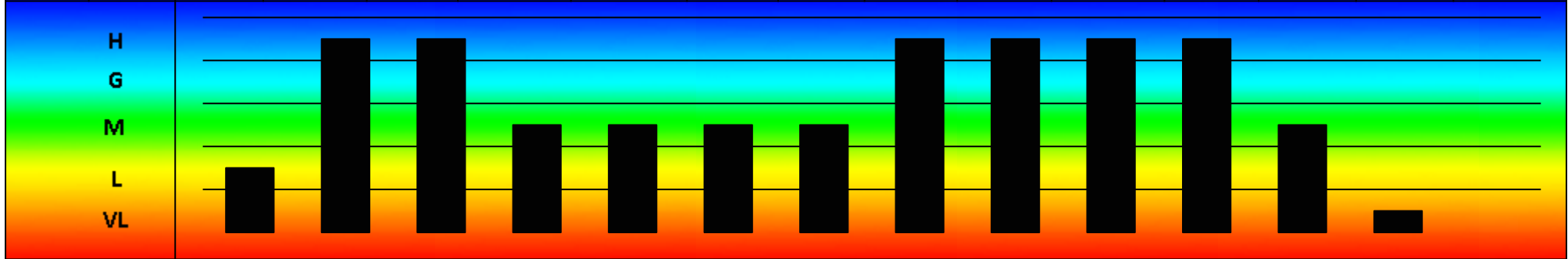


To: \_\_\_\_\_ For: \_\_\_\_\_ Farm: \_\_\_\_\_

Reported Date: 2018-06-11  
 Printed Date: 2018-09-06

## VitTellus Soil Health Report

Sample ID	Lab Number	Organic Matter %	Phosphorous-P ppm		Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	Sulfur S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Aluminum Al ppm
			Bicarb	Bray-P1											
SOILHEAI	65169	1.2	135	417	106	71	540	10	16	12.2	58	103	0.7	0.1	1162



VL=Very Low, L=Low, M=Medium, G=Good, H=High

Parameter	Result	Optimum Level
CEC, meq/100g	4.8	
K/Mg Ratio	0.46	0.25-0.35
GFI	78	G
%K	5.7	4-6
%Mg	12.3	10-20
%Ca	56.3	65-72
%H	24.8	5-15
%Na	0.9	<1

Parameter	Result	Rating
pH	6	M
Buffer pH	6.9	
EC, ms/cm	0.26	VL
Saturation %P	46	H
Saturation % Al	2.2	MT
Nitrate-N, ppm	13	M
Chloride, ppm	17	M
PMN, ppm	30	

Parameter	Result	Rating
Solvita CO2-C, ppm	44	M
Reactive C, ppm	256	L
Soil Health Index	40	M

The results of this report relate to the sample submitted and analyzed.  
 No guarantee or warranty concerning crop performance is made by A & L.

A&L Canada Laboratories Inc. is accredited by the Standards Council of Canada for specific tests as listed on [www.scc.ca](http://www.scc.ca) and by the Canadian Association for Laboratory Accreditation as listed on [www.cala.ca](http://www.cala.ca)

Results Authorized By:  Ian McLachlin, Vice President

To:

For:

Farm:

Reported Date: 2018-06-11  
Printed Date: 2018-09-06

## VitTellus Soil Health Report Biological Activity & Mineralizable Nitrification

Page: 1 / 1

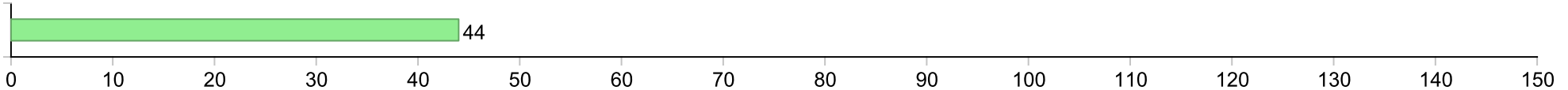
LabNo: 65169    Organic Matter: 1.2    Sample ID: SOILHEALTH

### Biological Quality Result



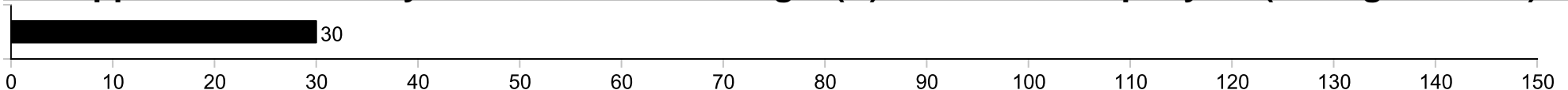
- 0-1: Very Low Soil Microbial Activity-** Associated with dry sandy soils and little to no organic matter.
- 1-2.5: Low Soil Microbial Activity-** Soil is marginal in terms of biological activity and organic matter.
- 2.5-3.5: Medium Soil Microbial Activity-** Soil is in moderately balanced condition.
- 3.5-4: Ideal Soil Microbial Activity-** Soil is well supplied with organic matter and has an active population of microorganisms.
- >4: Unusually High Soil Microbial Activity-** Soil has very high level of microbial activity. May have excessive organic matter.

### CO2-C Result



- 0-5: Little biological activity-** Soil is depleted of organic matter Biomass < 100 ppm.
- 6-30: Moderate to Low-** Low in organic matter and microbial activity.
- 31-60: Moderate Level-** Soil is approaching ideal levels, applications of active organic matter still recommended.
- 61-100: Moderate to high-** ideal balance of biological activity and adequate organic matter level.
- >100: High N potential soil-** Soil is well supplied with organic matter.

### Approximate Quantity of Mineralizable Nitrogen(N) release lbs/ac per year (average climate)



Methods: Microbial Activity- Soil Biomass    Organic Matter- Combustion    N Release- Calculation based on CO2-C Result

NO3N (ppm): 13    N4HN (ppm): 0

The results of this report relate to the sample submitted and analyzed.  
No guarantee or warranty concerning crop performance is made by A & L.

Results Authorized By:  Ian McLachlin, Vice President

REPORT NUMBER: C18150-10003  
ACCOUNT NUMBER: 97047

# A & L Canada Laboratories Inc.

2136 Jetstream Rd, London, Ontario, N5V 3P5  
Telephone: (519) 457-2575 Fax: (519) 457-2664



## REPORT OF ANALYSIS

TO:

FARM:  
RE:

DATE RECEIVED: 2018-05-30  
DATE REPORTED: 2018-09-06  
PAGE: 1 / 1

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
65169	SOILHEALTH	Active Carbon	256	ppm	KMnO4 Method
65169	SOILHEALTH	Water Extracted Soil Nitrate	9	ppm	Colorimetric
65169	SOILHEALTH	Water extracted organic carbon	44	ppm	
65169	SOILHEALTH	Water Extracted Total Nitrogen	30	ppm	Colorimetric
65169	SOILHEALTH	Biological Quality Rating	4		
65169	SOILHEALTH	Water Extracted Soil Ammonium	0	ppm	Colorimetric
65169	SOILHEALTH	Mineralizable Nitrogen	30		
65169	SOILHEALTH	CO2 Respiration	44		



C18150-10003

Results Authorized By: