Ballance agri-nutrients

Hill Laboratories
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Certificate of Analysis

Client:	LandWISE Incorporated	**Lab No:**	2163873 s2chpv1
Address:	P O Box 85 Hastings	**Date Received:**	18-Apr-2019
		Date Reported:	30-Apr-2019
		Quote No:	
		Order No:	5500024018
		Client Reference:	
Phone:	06 870 1587	**Submitted By:**	Jonathan Ritchie (CA)

Soil Analysis Results

Sample Name:	Soil Type*	pH pH Units	Olsen Phosphorus mg/L	Sulphate Sulphur mg/kg	Potassium MAF units	Calcium MAF units	Magnesium MAF units
Brocolli Plot	Sedimentary	6.4	69	5	25	13	37

Sample Name:	Sodium MAF units	Extractable Organic Sulphur* mg/kg	Potentially Available Nitrogen (15cm Depth)* kg/ha	Anaerobically Mineralisable N* µg/g	Boron mg/kg	Resin P mg/kg	Anion Storage Capacity* %
Brocolli Plot	3	2	96	73	1.0	169	15

Sample Name:	TBK me/100g	Total Nitrogen* %	Soil Sample Depth* mm				
Brocolli Plot	11.0	0.33	0-150	-	-	-	-

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Soil Analysis Results

Sample Name: Brocolli Plot
Lab Number: 2163873.1
Sample Type: SOIL Broccoli (S173)

Analysis		Level	Optimum	Below Optimum Above
pH	pH Units	6.4	6.0 - 7.2	
Resin P	mg/kg	169	70 - 150	
Olsen Phosphorus	mg/L	69	35 - 75	
Anion Storage Capacity*	%	15		
Potassium	MAF units	25	9 - 19	
Calcium	MAF units	13	7 - 14	
Magnesium	MAF units	37	21 - 63	
Sodium	MAF units	3	0 - 24	
Sulphate Sulphur	mg/kg	5	20 - 50	
Extractable Organic Sulphur*	mg/kg	2	12 - 20	
Boron	mg/kg	1.0	1.0 - 2.0	
TBK	me/100g	11.0	0.8 - 1.2	
Potentially Available Nitrogen (15cm Depth)*	kg/ha	96	100 - 150	
Anaerobically Mineralisable N*	µg/g	73		
Total Nitrogen*	%	0.33	0.30 - 0.60	
Soil Sample Depth*	mm	0-150		

Base Saturation %	K 7.5	Ca 63	Mg 9.8	Na 0.4
me/100g	K 1.41	Ca 11.9	Mg 1.85	Na 0.07
Additional Properties	Cation Exchange Capacity (me/100g)			19
	Total Base Saturation (%)			81
	Volume Weight (g/mL)			0.88
Soil Type*	Sedimentary			

The above nutrient graph compares the levels found with reference interpretation levels. NOTE: It is important that the correct sample type be assigned, and that the recommended sampling procedure has been followed. R J Hill Laboratories Limited does not accept any responsibility for the resulting use of this information. IANZ Accreditation does not apply to comments and interpretations, i.e. the 'Range Levels' and subsequent graphs.