

Client: A Farmer

119 Main Rd Smallacres

Phone:

Sample: Number: Date:

Location:

Situation:

Feature:

Conditions:

Application

Summary

The estimate for cation exchange capacity CEC and overall salt / nutrients in the soil by conductivity put this soil in the low to moderate fertility range. However some nutrients were in adequate supply eg calcium magnesium, potassium and nitrate. Phosphate level was low.

Exchangeable nutrients calcium, magnesium and potassium made up a relatively high proportion of the CEC. Exchangeable acidity was in the expected range relative to other nutrients. The soil is reasonably acidic. The pH given is measured / calculated in the actual soil solution at the moisture level in the submitted sample.

Relatively fresh and degradable organic matter level was slightly low compared to (a limited number of) other sample data available. A new test for humic matter (longer term organic matter) was carried out on this soil and levels were found to be approximately middle range compared to other samples.

Physical:

Measurement	Result	Units	Method	Levels	Comments
Water content	19.8%		Gravimetric	moderate	soil water content as submitted
Conductivity (EC)	261	uS/cm	EC meter	low	low salts and nutrients in the soil solution
pH	5.42		pH meter		in the soil solution
Base saturation	93.5%		Calculated	high	
CEC	9.8	meq%	Calculated	moderate	calculated as cations + exch acidity
Exch sodium	0.41%		Calculated	low	no sodium hazard

Chemical:

Measurement	Result	Units	Method	Levels	Comments
Organic matter	0.46%		H2O2 oxidation	relat low	represents easily degradable proportion of organic matter

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Soil solution:

Nutrients w/w:

Measurement	Result	Units	Method	Extractant	Levels	Comments
Nitrate	80	mg/l	Cadmium reduction	Dist water	high for soil	in the soil solution
Phosphate	2.5	ppm	Ascorbic acid reduction	Mehlich III	very low	

Exchangeable cations:

Measurement	Result	Units	Method	Extractant	Levels	Comments
Acidity, exchangeable	0.64	meq%	Base titration	KCl	expected	
Sodium	0.04	meq%	Sodium electrode	Dist water	low	
Potassium	1.96	meq%	Tetraphenylboron	Mehlich III	high	
Magnesium	2.01	meq%	Calculated	Double acid	low - mod	
Calcium	5.15	meq%	EGTA	Double acid	moderate	

Biological:

For help with interpreting your soil test report please refer to [www.appslabs.com.au/Soil test interpretations.doc](http://www.appslabs.com.au/Soil%20test%20interpretations.doc)