



AUSTRALASIAN SOIL AND
PLANT ANALYSIS COUNCIL INC.

This is to certify that

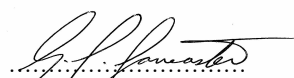
Analytical Laboratories & Technical Services Australia (AL TSA)

#CMA-1802

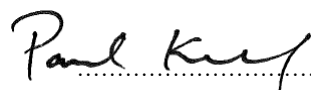
meets ASPAC's proficiency criteria for the following methods conducted in the Soil Proficiency

Testing Program, 2024

Air-Dry Moist Content (%)	2A1
Ammonium Nitrogen (mg/kg)	7C2
Aqua Regia Cadmium (mg/kg)	17B2
Aqua Regia Calcium (mg/kg)	17B2
Aqua Regia Chromium (mg/kg)	17B2
Aqua Regia Cobalt (mg/kg)	17B2
Aqua Regia Copper (mg/kg)	17B2
Aqua Regia Iron (mg/kg)	17B2
Aqua Regia Lead (mg/kg)	17B2
Aqua Regia Magnesium (mg/kg)	17B2
Aqua Regia Manganese (mg/kg)	17B2
Aqua Regia Sodium (mg/kg)	17B2
Aqua Regia Sulphur (mg/kg)	17B2
Aqua Regia Zinc (mg/kg)	17B2
Electrical Cond (dS/m)	3A1
Exch Calcium (cmol+/kg)	15D3
Exch Magnesium (cmol+/kg)	15D3
Exch Potassium (cmol+/kg)	15D3
Exch Sodium (cmol+/kg)	15D3
Ext Copper (mg/kg)	12A1
Ext Iron (mg/kg)	12A1
Ext Manganese (mg/kg)	12A1
Ext Zinc (mg/kg)	12A1
M3-Aluminium (mg/kg)	18F1
M3-Boron (mg/kg)	18F1
M3-Calcium (mg/kg)	18F1
M3-Copper (mg/kg)	18F1
M3-Iron (mg/kg)	18F1
M3-Magnesium (mg/kg)	18F1
M3-Manganese (mg/kg)	18F1
M3-Phosphorus (mg/kg)	18F1
M3-Potassium (mg/kg)	18F1
M3-Sodium (mg/kg)	18F1
M3-Sulphur (mg/kg)	18F1
M3-Zinc (mg/kg)	18F1
Nitrate Nitrogen (mg/kg)	7B1
Olsen P (mg/kg)	9C2
PBI Colwell (L/kg)	9I2b
pH CaCl2 (pH units)	4B2
pH Water (pH units)	4A1
Total Carbon (%)	6B2
Total Nitrogen (%)	7A5
Total Organic Carbon (%)	6B3
Total Organic Matter (%)	6G1
Total Phosphorus (%)	Not Specified
Water Ext Cl (mg/kg)	5A2


G. Lancaster
Chairperson, ASPAC

Method codes are from Rayment and Lyons (2011)


P. Kennelly
Convenor, Lab Proficiency Committee