

Agricultural soil and plant price list

Edition 17.1.1



Refer to our website for additional section Price Lists www.scu.edu.au/eal

TABLE OF CONTENTS

	Page Number
- Chemical Analytical Services	4
- Instructions for Submitting Samples	5
- Agricultural Soil and Plants	6
- Discounted Testing Packs	6
- Agricultural Soil (Packs)	6
- Carbon (Packs)	7
- Contamination (Packs)	7
- Plant, Leaf and Cuticle (Packs)	8
- Singles Testing	9
- Preparation	9
- Agricultural Soil (Singles)	9

ANALYTICAL SERVICES

Environmental Analysis Laboratory (EAL)

The Environmental Analysis Laboratory (EAL) in the Division of Research, Southern Cross University, is set up as a commercial, teaching and research facility. EAL specialises in a range of environmental testing services for waters, acid sulfate soils, agricultural soils, composts, potting mixes, landscape soils, plants and effluent monitoring. EAL employs over 30 professional staff and utilises the following instruments: Perkin Elmer ICPOES 4300DV; Perkin Elmer ICPOES 8300DV; ELAN DRC-e ICPMS; NexION 300D ICPMS; NexION 350D ICPMS with FLEXAR HPLC; LECO SC832 CS Analyser; LECO TruMac CNS Analyser; CRS Analysers; Lachat FIA Nutrient Analysers; Smartchem Nutrient Analyser; Soxtherm Oils and Grease Analysers; Bruker XRD; Leica SEM with EDAX; Pan-analytical XRF; Malvern Mastersizer Hydro2000MU Laser Particle Size Analyser; Waters Ion Chromatography system; Shumatsu TOC Analyser; Thermo-Finnigan IRMS; NewWave Laser Ablation System with Agilent ICPMS; Mantech AutoMax 197 pH/EC Analyser.

Specialists in the School of Environment, Science and Engineering, Southern Cross GeoScience and the Division of Research can also provide complete sampling, data interpretation and report production services. This includes specialists in soil science, geology, geochemistry, plant and fisheries biology, palaeontology, hydrology, marine biology and ecology.

Important Notes on Charges, Turnaround Times and Results

The following points apply to sample analysis:

- Sample specific quotes can be negotiated and customised at competitive rates on request.
- Payment is requested on delivery of samples (cash, eftpos, cheque payments accepted). Invoices are available to regular clients. Minimum charges apply.
- Sub-contracted analyses are sent to approved laboratories.
- On-site sample collection by qualified staff is available at a basic rate of \$110.00 +GST per hour.
- Turn around times for individual projects will vary depending on the size and complexity of the task, but most will be completed within five to ten working days of receiving samples.
- URGENT turn around times are available on request and only for selected tests. These incur 100% surcharge for 24 hour, 50% for two day and 25% for three day service.
- Results are supplied in Excel and PDF report format detailing the analytical results, in relation to standard guidelines where available.
- Sample Receipt Notices, Results and Invoices are supplied by email and may be posted or faxed if requested.

Confidentiality and Quality Assurance

Confidentiality is an integral part of our quality assurance certification. Analytical results are kept confidential and no results will be released to a third party without client consent.

Strict quality control procedures are applied to all chemical, physical and bacteriological analyses. This involves frequent use of replicates to monitor precision, and standard reference materials and blanks to monitor accuracy. The laboratory is also routinely involved in inter-laboratory comparisons and trials, including the Australian Standards National Low Level Nutrient Collaborative Trials (NLLNCT) program. EAL is a member of ASPAC (Australian Soil and Plant Analysis Council) which includes a regular Quality Assurance Program for soils and plants. EAL also assists in the formulation of suitable laboratory methods for acid sulfate soil analysis.

EAL is a NATA (National Association of Testing Authorities) accredited laboratory (Lab. Acc. No. 14960). EAL has accreditation on selected tests and is continually updating the number of tests directly accredited by NATA. Please refer to the final page for a list of NATA and ASPAC accredited procedures.

EAL uses many industry accepted method references as the base for NATA, ASPAC and other in-house methods of testing. These references include *Standard Methods for the Examination of Water and Wastewater* (APHA), *Australian Standards (AS)*, *Acid Sulfate Soils Laboratory Methods Guidelines* (Ahern, McEInea and Sullivan) and *Soils Chemistry Methods - Australasia* (Rayment and Lyons).

Instructions for Submitting Samples

Sample Collection and Preservation for Agricultural Soil Samples

- **Minimum of 200 g required** (half a plastic lunch bag is most suitable)
- Collect a representative soil sample
- Download EAL Soil Sampling Guide on the EAL website for suggestions www.scu.edu.au/eal
- Site/paddock name, and date of sampling, needs to be on the sampling bag

Sample Collection and Preservation for Plant and Leaf Samples

- **Minimum of 100 g required** (paper lunch bag is most suitable)
- Collect a representative leaf sample from areas of paddock or crop
- Download EAL Plant Leaf Sampling Guide on the EAL website for suggestions www.scu.edu.au/eal
- Site/paddock name, and date of sampling, needs to be on the sampling bag

Complete EAL Chain of Custody (COC)

- Download COC from the EAL website www.scu.edu.au/eal
- Complete all relevant details on COC
- Cheque, EFT and credit card are the preferred methods of payment
- Use Test Codes from the Price List e.g. RA-PACK-001

Package and Send Samples

- Package sample(s) in a postpak, suitable envelope or small box
- Enclose the COC in a sealable plastic sleeve along with any other instructions
- Samples can be dropped off in person at EAL. The university gatehouse will provide directions; follow the green and white EAL signs posted around the university. Client parking is reserved below the laboratory client entrance.
- Samples can also be sent by post or courier. TNT or TOLL are our preferred couriers, they can be contacted on 131 150 or 131 531, respectively. Please use the following delivery labels below:

COURIER ADDRESS:

**TO: SOUTHERN CROSS UNIVERSITY
Environmental Analysis Laboratory (EAL)
Ground floor, N Block, Military Road
EAST LISMORE NSW 2480**

*EAL Contact No. 02 6620 3678 or
Graham Lancaster Mob: 0419 984 088*

**NOTE: URGENT DELIVERY OF SAMPLES
FOR TESTING**

POSTAL ADDRESS:

**TO: SOUTHERN CROSS UNIVERSITY
Environmental Analysis Laboratory (EAL)
PO BOX 157
LISMORE NSW 2480**

*EAL Contact No. 02 6620 3678 or
Graham Lancaster Mob: 0419 984 088*

**NOTE: URGENT DELIVERY OF SAMPLES
FOR TESTING**

Contact Details

Laboratory Position	Contact	Phone / Fax	Email
Administration	Reception	02 6620 3678 / 02 6620 3957	eal@scu.edu.au
Laboratory Manager/Director	Graham Lancaster	0419 984 088	graham.lancaster@scu.edu.au
Agricultural Co-ordinator	Kris Saville	0437 016 017	kris.saville@scu.edu.au

AGRICULTURAL SOIL AND PLANTS

DISCOUNTED TESTING PACKS

All packs have preparation and digest/extract charge included

ITEM CODE	AGRICULTURAL SOIL (PACKS)	PRICE excl. GST	PRICE incl. GST
RA-PACK-001	<p>Agricultural - Albrecht/Reams Includes pH and EC (1:5 water); Available (Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur); Exchangeable (Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity); Bray I and II (Phosphorus); Colwell (Phosphorus); Available Micronutrients (Zinc, Manganese, Iron, Copper, Boron, Silicon); Total Carbon (TC), Total Nitrogen (TN), Organic Matter, TC/TN Ratio; Basic Colour, Basic Texture.</p>	\$110.00	\$121.00
RA-PACK-002	<p>Agricultural - Albrecht/Reams plus Totals Includes pH and EC (1:5 water); Available (Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur); Exchangeable (Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity); Bray I and II (Phosphorus); Colwell (Phosphorus); Available Micronutrients (Zinc, Manganese, Iron, Copper, Boron, Silicon); Total Carbon (TC), Total Nitrogen (TN), Organic Matter, TC/TN Ratio; Basic Colour, Basic Texture; Totals (Sodium, Potassium, Calcium, Magnesium, Sulfur, Phosphorus, Silicon, Cobalt, Molybdenum, Selenium, Zinc, Manganese, Iron, Copper, Boron and Aluminium).</p>	\$160.00	\$176.00
RA-PACK-003	<p>Agricultural - Albrecht/Reams plus Totals and Heavy Metals Includes pH and EC (1:5 water); Available (Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur); Exchangeable (Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity); Bray I and II Phosphorus; Colwell Phosphorus; Available Micronutrients (Zinc, Manganese, Iron, Copper, Boron, Silicon); Total Carbon (TC), Total Nitrogen (TN), Organic Matter, TC/TN Ratio; Basic Colour, Basic Texture; Totals (Sodium, Potassium, Calcium, Magnesium, Sulfur, Phosphorus, Silicon, Cobalt, Molybdenum, Selenium, Zinc, Manganese, Iron, Copper, Boron and Aluminium); Heavy Metals (Silver, Arsenic, Lead, Chromium, Nickel, Cadmium, Mercury).</p>	\$180.00	\$198.00
RA-PACK-004	<p>Agricultural - Standard 1 Includes pH and EC (1:5 water); Exchangeable Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity; Bray I Phosphorus; Total Carbon (TC), Total Nitrogen (TN), Organic Matter, Basic Colour, Basic Texture.</p>	\$75.00	\$82.50
RA-PACK-013	<p>Agricultural - Standard 2 Includes pH and EC (1:5 water); Available Ammonium, Nitrate, Sulfur; Exchangeable Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Hydrogen, Cation Exchange Capacity; Bray I and II Phosphorus; Available Micronutrients Zinc, Manganese, Iron, Copper, Boron, Silicon; Basic Colour, Basic Texture.</p>	\$90.00	\$99.00
RA-PACK-014	<p>Agricultural - Standard 3 Includes pH and EC (1:5 water); pH (1:5 CaCl); Available (Ammonium, Nitrate, Sulfur); Exchangeable (Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity); Colwell (Phosphorus); Available Micronutrients (Zinc, Manganese, Iron, Copper, Boron, Silicon); Total Carbon (TC), Total Nitrogen (TN), Organic Matter, TC/TN Ratio; Basic Colour, Basic Texture.</p>	\$100.00	\$110.00
RA-PACK-015	<p>Agricultural - Sugarcane Reefwise Includes pH and EC (1:5 water); pH (1:5 CaCl); Available (Ammonium, Nitrate, Sulfur); Exchangeable (Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity); Nitric (Potassium); Colwell (Phosphorus), PBI, BSES (Phosphorus, Silicon); Available Micronutrients (Zinc, Manganese, Iron, Copper, Boron, Silicon); HCl (Zinc); Total Carbon (TC), Total Nitrogen (TN), Organic Matter, TC/TN Ratio, Organic Carbon (W-B); Basic Colour, Basic Texture.</p>	\$140.00	\$154.00

Environmental Analysis Laboratory Agricultural Price List - Edition: 17.1.1

All packs have preparation and digest/extract charge included

ITEM CODE	AGRICULTURAL SOIL (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-PACK-052	Deep Soil Nitrogen Includes KCl extractable Nitrate and Ammonium.	\$25.00	\$27.50
NT-PACK-001	Mehlich III Standard Includes pH and EC (1:5 water); Available Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur; Mehlich III Extractable Sodium, Potassium, Calcium, Magnesium, Hydrogen/Aluminium (calculation) Cation Exchange Capacity; Mehlich III Extractable Phosphorus, Bray II Phosphorus; Total Nitrogen (TN), Total Carbon (TC), Organic Matter; Available Micronutrients Iron, Copper, Zinc, Manganese; Silicon; Boron; Paramagnetism; Basic Colour and Basic Texture.	\$100.00	\$110.00
NT-PACK-002	Mehlich III Standard plus Nutri-Tech Report Includes pH and EC (1:5 water); Available Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur; Mehlich III Extractable Sodium, Potassium, Calcium, Magnesium, Hydrogen/Aluminium (calculation) Cation Exchange Capacity; Mehlich III Extractable Phosphorus, Bray II Phosphorus; Total Nitrogen (TN), Total Carbon (TC), Organic Matter; Available Micronutrients Iron, Copper, Zinc, Manganese; Silicon; Boron; Paramagnetism; Basic Colour and Basic Texture.; Nutri-Tech Report.	\$130.00	\$143.00
RA-PACK-007	Reef Wise Pack - 1 Includes Colwell (Phosphorus), Phosphorus Buffer Index (PBI), BSES Extractable (Phosphorus), Organic Carbon (W-B).	\$60.00	\$66.00
RA-PACK-016	Reef Wise Pack - 2 Includes Colwell (Phosphorus); Phosphorus Buffer Index (PBI); BSES Extractable (Phosphorus, Silicon); CaCl (Silicon); Organic Carbon (W-B); Nitric (Potassium); HCl (Zinc).	\$75.00	\$82.50
RA-PACK-009	Total Acid Extractable Cobalt, Molybdenum, Selenium	\$30.00	\$33.00
RA-PACK-012	Total Acid Extractable Cobalt, Molybdenum, Selenium, Phosphorus	\$40.00	\$44.00
RA-PACK-008	Total Acid Extractable Elements Includes Sodium, Potassium, Calcium, Magnesium, Sulfur, Phosphorus, Silicon, Cobalt, Molybdenum, Selenium, Zinc, Manganese, Iron, Copper, Boron, Aluminium.	\$80.00	\$88.00

All packs have preparation and digest/extract charge included

ITEM CODE	CARBON (PACKS)	PRICE excl. GST	PRICE incl. GST
SS-PACK-011	LECO - Total Carbon and Total Nitrogen Includes Total Carbon (TC) and Total Nitrogen (TN), Carbon/Nitrogen Ratio.	\$25.00	\$27.50
SS-PACK-024	Total Organic Carbon (TOC) under 2014 CFI Methodology Includes Total Organic Carbon by LECO, gravel content, air-dry mass and gravimetric water content on the air-dry soil.	\$40.00	\$44.00

All packs have preparation and digest/extract charge included

ITEM CODE	CONTAMINATION (PACKS)	PRICE excl. GST	PRICE incl. GST
SS-PACK-006	Contaminated Site Assessment 1b Includes Basic Texture; Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury, Boron, Cobalt, Beryllium; Pesticides (Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB)).	\$150.00	\$165.00
SS-PACK-014	Pesticide Screen 1b Includes Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB).	\$100.00	\$110.00
SS-PACK-045	Total Acid Extractable - Heavy Metals (ICPMS) Includes Lead, Cadmium, Arsenic, Nickel, Aluminium, Mercury, Chromium, Silver, Selenium.	\$50.00	\$55.00

Environmental Analysis Laboratory Agricultural Price List - Edition: 17.1.1

All packs have preparation and digest/extract charge included

ITEM CODE	PLANT, LEAF AND CUTICLE (PACKS)	PRICE excl. GST	PRICE incl. GST
PA-PACK-001	Plant Testing Includes Total Nitrogen (TN), Total Carbon (TC), Total Sulfur (TS); Sodium, Potassium, Calcium, Magnesium, Phosphorus, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron.	\$50.00	\$55.00
PA-PACK-006	Routine Sap Analysis Includes pH, EC, Moisture, Brix; Nitrate, Ammonium; Chloride; Calcium, Magnesium, Sodium, Potassium, Phosphorus, Sulfur, Boron, Copper, Iron, Manganese, Zinc, Aluminium, Molybdenum and Cobalt. Data Only (no interpretation).	\$62.00	\$68.20
PA-PACK-005	Soluble Nitrogen Testing Includes Nitrate and Ammonium.	\$25.00	\$27.50

SINGLES TESTING

ITEM CODE	PREPARATION	PRICE excl. GST	PRICE incl. GST
SS-PREP-015	Exchangeable Cation Pre-treatment for Soluble Salts Includes pretreatment with aqueous ethanol and aqueous glycerol to remove soluble salts. Recommended on soils with EC >0.3dS/m.	\$10.00	\$11.00
SS-PREP-016	Fizz Test for Carbonates This method is used to indicate the presence of carbonates.	\$3.00	\$3.30
SS-PREP-013	International Quarantine Handling Charge	\$70.00	\$77.00
SS-PREP-009	Leaf Washing Please advise with samples.	\$5.00	\$5.50
SS-PREP-001	Sample Preparation Includes drying and ring mill grinding.	\$10.00	\$11.00
SS-PREP-007	TOTAL Dry Weight - Air dry basis Includes mass of the air dried sample.	\$6.00	\$6.60
SS-PREP-017	TOTAL Dry Weight - Oven dry basis Includes mass of the oven dried sample.	\$6.00	\$6.60

All samples require Sample Preparation (SS-PREP-001) unless a Discounted Testing Pack is selected

ITEM CODE	AGRICULTURAL SOIL (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-038	Chloride - Soluble	\$15.00	\$16.50
SS-SING-204	Fertility Report - Ferti-Tech Soil /Leaf Report Preparation	\$30.00	\$33.00
SS-SING-071	Fertility Report - Keycrobe Soil /Leaf Report Preparation	\$30.00	\$33.00
SS-SING-018	Labile Carbon	\$17.50	\$19.25
SS-SING-001	Moisture - (105oC Oven)	\$10.00	\$11.00
SS-SING-062	Organic Carbon by Walkley Black	\$30.00	\$33.00
SS-SING-053	Organo-chlorines (OC) (Detection Limit - 0.1 ppm)	\$65.00	\$71.50
SS-SING-069	Paramagnetism	\$10.00	\$11.00
SS-SING-011	Particle Size Analysis - Dry Sieving Dry sieving for fractions > 2 mm, 1-2 mm, 500 µm-1 mm, 250-500 µm, 125-250 µm, 63-25 µm, < 63 µm.	\$35.00	\$38.50
SS-SING-066	pH (1:5 CaCl2)	\$12.50	\$13.75
SS-SING-035	Phosphorus - Bray 1 Plant available in acid soils	\$15.00	\$16.50
SS-SING-036	Phosphorus - Bray 2 Plant available and acid soluble forms	\$15.00	\$16.50
SS-SING-040	Phosphorus - BSES Acid Soluble	\$15.00	\$16.50
SS-SING-033	Phosphorus - Colwell Measure quantity of phosphorus in alkaline soils	\$15.00	\$16.50
SS-SING-143	Phosphorus - DGT	\$25.00	\$27.50
SS-SING-034	Phosphorus - Olsen Measure intensity of phosphorus	\$15.00	\$16.50
SS-SING-032	Phosphorus - Total Acid Extractable (includes prep)	\$30.00	\$33.00
SS-SING-037	Phosphorus Buffer Index (PBI)	\$17.50	\$19.25
SS-SING-084	Phosphorus Buffer Index (PBI) Colwell Corrected Includes Phosphorus Buffer Index (PBI) and is corrected using Colwell Phosphorus.	\$30.00	\$33.00
SS-SING-083	Potassium - BSES Nitric	\$22.50	\$24.75
SS-SING-076	Potassium - Colwell	\$15.00	\$16.50
SS-SING-080	Silicon - BSES Acid Soluble	\$22.00	\$24.20

Environmental Analysis Laboratory Agricultural Price List - Edition: 17.1.1

All samples require Sample Preparation (SS-PREP-001) unless a Discounted Testing Pack is selected

ITEM CODE	AGRICULTURAL SOIL (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-SING-078	Silicon - BSES Available	\$22.00	\$24.20
SS-SING-209	SOLVITA - Soil CO2 Burst Includes measurement of carbon dioxide released from soil due to biological activity.	\$60.00	\$66.00
SS-SING-081	Sulfur - KCl-40	\$22.00	\$24.20
SS-SING-082	Sulfur - MCP	\$22.00	\$24.20
SS-SING-086	Texture - Australian Soil Classification (Isbell and NCST, 2016)	\$15.00	\$16.50
SS-SING-061	Total Organic Carbon by LECO	\$25.00	\$27.50
SS-SING-079	Zinc - BSES HCl	\$17.50	\$19.25



NATA ACCREDITED TESTS (Lab Acc. No. 14960)

ID	Tests	Reference	Issue Date
S1	Soil pH and Conductivity	In-house (re Rayment & Lyons 3A1,4A1)	Jul, 2003
S4a	Total C, N, S by Dumas	In-house	Sep, 2013
S14	Acid Neutralising Capacity	In-house (re QASSIT Manual 19A2)	May, 2005
S15b	Total Organic Carbon in Soil by Dumas	In-house	Sep, 2013
S16-B	Titrateable Actual Acidity	In-house (re QASSIT Manual 23)	May, 2005
S20	Chromium Reducible Sulfur	In-house (re QASSIT Manual 22B)	May, 2005
S21	Acid Sulfate Peroxide Screening	In-house	May, 2005
S38	Lead in Paint	In-house	Sep, 2011
W1	Turbidity	In-house	Sep, 2011
W4	Total N/Total P (Lachat)	In-house (re APHA 4500 P-H N-C)	Mar, 2000
W6	Nitrite in Waters (Lachat)	APHA 4500 NO3-I	Jul, 2003
W7	Nitrate in Waters (Lachat)	APHA 4500 NO3-F	Jul, 2003
W8	Ortho-Phosphate in Waters (Lachat)	APHA 4500 P-G	Jun, 2003
W9	Ammonia in Waters (Lachat)	APHA 4500 NH3-H	Jul, 2003
W25	Total Suspended Solids	APHA 2540-D	Jul, 2003
W26	BOD in Waters & Wastewaters	APHA 5210-B	Jul, 2003
W28a	Total Oils & Grease Automated	APHA 5520-D	Jan, 2003
W31	Water pH & Conductivity	APHA 4500-H & 2510-B	Jun, 2003
W32	ICPMS Metals Analysis in Soils & Waters (Al,Sb,As,Ba,Be,Bi,B,Cd,Ca,Cr,Co,Cu,Fe,Pb,Li,Mg, Mn,Hg,Mo,Ni,P,K,Se,Ag,Na,Sr,S,Tl,Th,Sn,U,V,Zn)	In-house (re APHA 3125)	Sep, 2011
W32a	Trace Metals in Saline Water (Al,As,Ba,Be,Bi,Cd,Cr,Co,Cu,Fe,Pb,Mn,Hg,Mo,Ni, ,Se,Ag,Tl,U,V,Zn)	In-house (re APHA 3125)	Aug, 2013
W33	Soluble Chloride as Chloride in Waters	In-house (by ICPMS)	Oct, 2013



ASPAC TESTS (for Plant and Soil)

Tests	Reference
Soil pH	Rayment & Lyons 4A1, 4B1, 4B2
Soil Conductivity	Rayment & Lyons 3A1
Bray 1, Colwell, Olsen Phosphorus	Rayment & Lyons 9E2, 9B2, 9C2
Total Phosphorus	Rayment & Lyons 17C1
Exchangeable Cations - Ca,Mg,K,Na	Rayment & Lyons 15D3
Exchangeable Cations - H,Al	Rayment & Lyons 15G1
DTPA - Fe,Cu,Zn,Mn	Rayment & Lyons 12A1
Total Carbon and Nitrogen	Rayment & Lyons 6B2b, 7A5
Nitrate/Ammonium	Rayment & Lyons 7C2
Soluble Chloride	Rayment & Lyons 5A2
Extractable Boron	Rayment & Lyons 12C2
Extractable Sulfur	Rayment & Lyons 10D1
Phosphorus Buffer Index	Rayment & Lyons 9I2b
Ca,Mg,K,Na,Fe,Cu,Zn,Mn,P,S,Al,B	Rayment & Lyons 18F1
Soluble Chloride	ASPAC Method Code BB-32
Ca,Mg,P,K,Na,Si,B,S	ASPAC Method Code AE-24
C,N,S	ASPAC Method Code CA-37
Cd,Co,Fe,Pb,Mn,Mo,Se,Zn	ASPAC Method Code AE-24

Note: See EAL website under 'About' for current scope of accreditation for NATA and ASPAC