



**Southern Cross  
University**

**EAL** Environmental  
Analysis  
Laboratory



**Analytical Services**

# Agricultural price list

Edition: 21.1.1

Refer to our website for additional section  
Price Lists [scu.edu.au/eal](http://scu.edu.au/eal)





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## Agricultural price list

The Environmental Analysis Laboratory (EAL) is part of Southern Cross University and 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 for effluent monitoring.

EAL employs over 50 professional staff and utilises the following instruments: Perkin Elmer ICPOES 8300DV; Perkin Elmer ICPOES Avio500; NexION 2000B 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; Hitachi desktop SEM with EDAX; Pan-analytical XRF; Malvern Mastersizer 3000LV/SM Laser Diffraction Particle Size Analysers; Waters Ion Chromatography system; Shumatsu TOC/TN 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, and Cooperative Research Centres, 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
- An admin batch charge of \$30 +GST applies per project/sample submission form
- 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 vary depending on the size and complexity of the task; most are completed within five to ten working days of receiving samples
- URGENT turn-around times (TAT) are available on request for selected tests. These incur 100% surcharge for one working day, 50% for two, 25% for three and 12.5% for four working days service (note samples must arrive at the laboratory by noon to ensure these TAT)
- Results are supplied in Excel and PDF report format. They detail the analytical results in relation to standard guidelines, where available
- Sample Receipt Notices, Results and Invoices are supplied by email and may be posted if requested.
- Payment is requested on delivery of samples (cash, eftpos, cheque). Invoices are available to regular clients. Minimum invoice amount is required

### Confidentiality and quality assurance

Confidentiality is an integral part of our quality assurance certification. Results will not be released to a third party without written client consent.

Strict quality control procedures are applied to all chemical, physical and bacteriological analyses. This involves

frequent use of replicates to monitor precision, with 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). Accreditation is on selected tests (refer to final page); EAL is continually updating the number of tests directly accredited by NATA.

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), National Acid Sulfate Soils Guidance (Sullivan, Ward, Toppler and Lancaster, 2018) and Soils Chemistry Methods – Australasia (Rayment and Lyons, 2011).

### Instructions for submitting samples

#### Collection and preservation procedure for Agricultural Soil samples:

- 200-300 g required (half a plastic lunch bag is most suitable)
- Collect a representative soil sample
- Download [EAL Soil Sampling Guide](#) for suggestions
- Label bag with block, crop, client name and date of sampling.



### Collection procedure for Plant Tissue samples

- 50-100 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](#) suggestions
- Label bag with block, crop, client name and date of sampling.

### Collection and preservation procedure for Water samples

- Minimum of 500 mL required in a plastic water bottle
- Separate glass bottles required for oils and grease or organics (pesticides, hydrocarbons, phenol, etc.)
- Thoroughly rinse the bottle with sample water collecting a representative sample
- EAL can supply free of charge clean/sterile bottles on request
- Download [EAL Water Preservation Sampling Guide](#) for suggestions
- Label bottle with site name and date of sampling.

### Complete EAL Sample Submission Form (SSF)

- Download a [Sample Submission Form](#); excel versions also available
- Complete all relevant details on the SSF
- Use Test Codes from the Price List e.g. RA-PACK-001 or PA-PACK-001
- Credit card and cheque are the preferred methods of payment.

### Package and send samples

- Package sample(s) in a postpak, esky, suitable envelope or small box
- Enclose the SSF in a sealed plastic sleeve along with any other instructions
- Samples can be dropped off in person at EAL. The university gatehouse will provide directions; follow the EAL signs posted around the university. Client parking is reserved in the lane way next to sample reception
- Samples can also be sent by post or courier. TNT or TOLL are the preferred couriers, they can be contacted on 131 150 or 131 531, respectively. Please use the following delivery labels below.

### Courier address:

Southern Cross University  
Environmental Analysis Laboratory (EAL)  
Ground floor, N Block  
Military Road East Lismore NSW 2480

### EAL contact:

P: 02 6620 3678 or  
Graham Lancaster M: 0419 984 088

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

### Postal address:

Southern Cross University  
Environmental Analysis Laboratory (EAL)  
PO Box 157  
Lismore NSW 2480

### EAL contact:

P: 02 6620 3678 or  
Graham Lancaster M: 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
Senior Manager	Graham Lancaster	0419 984 088	graham.lancaster@scu.edu.au
Laboratory Manager	Nadia Toppler	0447 011 070	nadia.toppler@scu.edu.au
Agricultural Co-ordinator	Kris Saville	0437 016 017	kris.saville@scu.edu.au
Senior Agricultural Technician	Josh Harris	0438 999 488	josh.harris@scu.edu.au
Compost/Landscape Soils Co-ordinator	Brian Smith	0437 016 091	brian.smith@scu.edu.au

Terms and conditions: Sample submission to EAL infers acceptance of the [EAL Terms and Conditions](#).

**ABN:** 41 995 651 524

**AGRICULTURAL ANALYTICAL SERVICES**

**SOIL TESTING**

All suites have preparation and digest/extract charges included.

ITEM CODE	ROUTINE SOIL SUITES	PRICE excl. GST	PRICE incl. GST
RA-PACK-001	<b>Agricultural - Albrecht/Reams</b> 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.	\$110.00	\$121.00
RA-PACK-002	<b>Agricultural - Albrecht/Reams plus Totals</b> 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), TC/TN Ratio, Organic Matter; Basic Colour, Basic Texture; Total Sodium, Potassium, Calcium, Magnesium, Sulfur, Phosphorus, Silicon, Cobalt, Molybdenum, Selenium, Zinc, Manganese, Iron, Copper, Boron and Aluminium.	\$160.00	\$176.00
RA-PACK-003	<b>Agricultural - Albrecht/Reams plus Totals and Heavy Metals</b> 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), TC/TN Ratio, Organic Matter; Basic Colour, Basic Texture; Total 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.	\$180.00	\$198.00
RA-PACK-014	<b>Agricultural - Standard C</b> Includes pH and EC (1:5 water); pH (1:5 CaCl <sub>2</sub> ); 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), TC/TN Ratio, Organic Matter; Basic Colour, Basic Texture.	\$100.00	\$110.00
RA-PACK-015	<b>Agricultural - Sugarcane Reefwise</b> Includes pH and EC (1:5 water); pH (1:5 CaCl <sub>2</sub> ); Available Ammonium, Nitrate, Sulfur; Exchangeable Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity; Nitric Acid Extractable Potassium; Colwell Phosphorus, Phosphorous Buffer Index (PBI), BSES Phosphorus, Silicon; Available Micronutrients Zinc, Manganese, Iron, Copper, Boron, Silicon; HCl Extractable Zinc; Total Carbon (TC), Total Nitrogen (TN), TC/TN Ratio, Organic Matter; Organic Carbon (W-B); Basic Colour, Basic Texture.	\$140.00	\$154.00
RA-PACK-017	<b>Agricultural Basic Home</b> Includes pH and EC (1:5 water); Exchangeable Sodium, Potassium, Calcium, Magnesium, Cation Exchange Capacity; Bray I Phosphorus; Total Carbon (TC), Total Nitrogen (TN), TC/TN Ratio, Organic Matter.	\$60.00	\$66.00

All suites have preparation and digest/extract charges included.

ITEM CODE	OTHER SOIL TESTS	PRICE excl. GST	PRICE incl. GST
RA-PACK-004	<b>Agricultural - Standard A-1</b> 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.	\$75.00	\$82.50
RA-PACK-018	<b>Agricultural - Standard A-2</b> Includes pH and EC (1:5 water); Exchangeable Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity; Colwell Phosphorus; Total Carbon (TC), Total Nitrogen (TN), Organic Matter; Basic Colour, Basic Texture.	\$75.00	\$82.50
RA-PACK-013	<b>Agricultural - Standard B</b> 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.	\$90.00	\$99.00
RA-PACK-041	<b>Agricultural Sugar Cane Basic</b> Includes Basic Texture, Basic Colour, Organic Carbon (W/B), pH/EC (H <sub>2</sub> O), pH (CaCl <sub>2</sub> ), EC-SE (Calculation), Phosphorus (Colwell, BSES), Phosphorus Buffer Index, Potassium (Nitric), Exchangeable Cations (Ammonium Acetate), Aluminium (KCl), Sulfur (MCP), and Silicon (BSES, CaCl <sub>2</sub> ).	\$120.00	\$132.00
RA-PACK-043	<b>Agricultural Sugar Cane Full</b> Includes Basic Texture, Basic Colour, Organic Carbon (W/B), pH/EC (H <sub>2</sub> O), pH (CaCl <sub>2</sub> ), EC-SE (Calculation), Phosphorus (Colwell, BSES), Phosphorus Buffer Index, Potassium (Nitric), Exchangeable Cations (Ammonium Acetate), Aluminium (KCl), Sulfur (MCP), Silicon (BSES, CaCl <sub>2</sub> ), Zinc (HCl), Iron/Copper/Zinc/Manganese (DTPA), Chloride (H <sub>2</sub> O), Ammonium/Nitrate (KCl) and Buffer pH.	\$160.00	\$176.00
RA-PACK-042	<b>Agricultural Sugar Cane Standard</b> Includes Basic Texture, Basic Colour, Organic Carbon (W/B), pH/EC (H <sub>2</sub> O), pH (CaCl <sub>2</sub> ), EC-SE (Calculation), Phosphorus (Colwell, BSES), Phosphorus Buffer Index, Potassium (Nitric), Exchangeable Cations (Ammonium Acetate), Aluminium (KCl), Sulfur (MCP), Silicon (BSES, CaCl <sub>2</sub> ), Zinc (HCl) and Iron/Copper/Zinc/Manganese (DTPA).	\$140.00	\$154.00
SS-PACK-113	<b>Haney - Basic Carbon and Nitrogen</b> Includes Water extractable Nitrate/Ammonium, Total Water extractable Nitrogen and Organic Carbon, Inorganic Nitrogen (Calc), Organic Nitrogen (Calc), Water extractable Organic Carbon: Organic Nitrogen Ratio (Calc).	\$60.00	\$66.00

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ITEM CODE	OTHER SOIL TESTS (Cont.)	PRICE excl. GST	PRICE incl. GST
SS-PACK-114	<b>Haney – Basic Nutrients</b> Includes Haney (H3A) extractable Nitrate, Ammonium, Calcium, Magnesium, Potassium, Sodium, Phosphorus, Sulfur, Zinc, Manganese, Iron, Copper, Aluminium.	\$50.00	\$55.00
SS-PACK-115	<b>Haney – Basic Soil Health</b> Includes Solvita CO <sub>2</sub> respiration, Water extractable Nitrate, Ammonium; Total Water extractable Nitrogen and Organic Carbon; Inorganic Nitrogen (Calc), Organic Nitrogen (Calc), Water extractable Organic Carbon: Organic Nitrogen Ratio (Calc) and Haney Soil Health Score (Calc).	\$100.00	\$110.00
SS-PACK-116	<b>Haney – Routine Soil Health</b> Includes Solvita CO <sub>2</sub> respiration, Water extractable Nitrate, Ammonium; Total Water extractable Nitrogen and Organic Carbon; Inorganic Nitrogen (Calc), Organic Nitrogen (Calc), Water extractable Organic Carbon: Organic Nitrogen Ratio (Calc) and Haney Soil Health Score (Calc). Haney (H3A) extractable Nitrate, Ammonium, Calcium, Magnesium, Potassium, Sodium, Phosphorus, Sulfur, Zinc, Manganese, Iron, Copper, Aluminium.	\$150.00	\$165.00
SS-PACK-117	<b>Haney – Total Soil Health</b> Includes Solvita CO <sub>2</sub> respiration, Water extractable Nitrate, Ammonium; Total Water extractable Nitrogen and Organic Carbon; Inorganic Nitrogen (Calc), Organic Nitrogen (Calc), Water extractable Organic Carbon: Organic Nitrogen Ratio (Calc) and Haney Soil Health Score (Calc). Haney (H3A) extractable Nitrate, Ammonium, Calcium, Magnesium, Potassium, Sodium, Phosphorus, Sulfur, Zinc, Manganese, Iron, Copper, Aluminium. Also includes pH, EC; Total Carbon, Total Nitrogen, estimated Organic Matter and Labile Carbon.	\$200.00	\$220.00
SS-PACK-037	<b>Mehlich III Exchangeable Cations and Micronutrients</b> Includes Mehlich III Extractable Sodium, Potassium, Calcium, Magnesium, Phosphorus, Sulfur, Aluminium, Iron, Copper, Zinc, Manganese, Boron.	\$60.00	\$66.00
SS-PACK-140	<b>Microbial Biomass Assessment - Soil</b> Includes biomasses of 12 microbial groups relevant for soil quality, health and function.	\$259.00	\$284.90
SS-PACK-167	<b>MIC-01: Basic Analysis of Microbial Activity in Soil (Plate Count)</b> Preferably examined in relation to texture, moisture content, pH, C:N ratio, and organic matter content. Includes Total aerobic bacteria, Total fungi (moulds), Gram negative bacteria, Filamentous actinomycetes, Yeasts.	\$90.00	\$99.00
SS-PACK-168	<b>MIC-02: Microbial Activity in Soil (Plate Count)</b> Preferably examined in relation to texture, moisture content, pH, C:N ratio, and organic matter content. Includes Total aerobic bacteria, Filamentous actinomycetes, Actinobacteria, Gram negative bacteria, Filamentous fungi (Moulds), Yeasts, Lactic acid bacteria, Total Anaerobes (includes facultative anaerobes), Sulfite Reducing Anaerobes.	\$190.00	\$209.00
SS-PACK-014	<b>Pesticide Screen 1b</b> Includes Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB).	\$100.00	\$110.00
SS-PACK-175	<b>Phytophthora and Pythium</b> Note: 500 g of sample is required to complete testing.	\$220.00	\$242.00
RA-PACK-007	<b>Reef Wise Pack - 1</b> Includes Colwell Phosphorus; Phosphorous Buffer Index (PBI); BSES Extractable Phosphorous; Organic Carbon.	\$60.00	\$66.00
RA-PACK-016	<b>Reef Wise Pack - 2</b> Includes Colwell Phosphorus; Phosphorus Buffer Index (PBI); BSES Extractable Phosphorus, Silicon; CaCl <sub>2</sub> Extractable Silicon; HNO <sub>3</sub> Extractable Potassium; HCl Extractable Zinc; Organic Carbon (W-B).	\$75.00	\$82.50
SS-PACK-118	<b>Residue Screen - Complete</b> Includes RS1 + RS2 (OCOP Pesticides + Synthetic Pyrethroids – 80+ Residues + Herbicide and Fungicide – 40+	\$280.00	\$308.00
SS-PACK-119	<b>Residue Screen - Complete + Glyphosate</b> Includes RS1 + RS2 (OCOP Pesticides + Synthetic Pyrethroids – 80+ Residues + Herbicide and Fungicide – 40+ Residue) + Glyphosate Screens.	\$380.00	\$418.00
SS-PACK-052	<b>Soluble Nitrogen - Soil</b> Includes KCl extractable Nitrate and Ammonium.	\$40.00	\$44.00
SS-PACK-045	<b>Total Acid Extractable - Heavy Metals (ICPMS)</b> Includes Lead, Cadmium, Arsenic, Nickel, Aluminium, Mercury, Chromium, Silver, Selenium.	\$50.00	\$55.00
RA-PACK-009	<b>Total Acid Extractable Cobalt, Molybdenum, Selenium</b>	\$30.00	\$33.00
RA-PACK-012	<b>Total Acid Extractable Cobalt, Molybdenum, Selenium, Phosphorus</b>	\$40.00	\$44.00
RA-PACK-008	<b>Total Acid Extractable Elements</b> Includes Sodium, Potassium, Calcium, Magnesium, Sulfur, Phosphorus, Silicon, Cobalt, Molybdenum, Selenium, Zinc, Manganese, Iron, Copper, Boron, Aluminium.	\$80.00	\$88.00

No additional charges if a suite is selected.

ITEM CODE	INDIVIDUAL SOIL TESTS	PRICE excl. GST	PRICE incl. GST
SS-PREP-013	<b>Biosecurity Handling Charge (Importing Charge for Samples)</b>	\$100.00	\$110.00
SS-SING-038	<b>Chloride - Soluble</b>	\$30.00	\$33.00
SS-SING-218	<b>Colour (Munsell Soil Colour Classification)</b>	\$8.00	\$8.80
SS-SING-085	<b>Emerson Dispersion Index (Loveday and Pyle, 1973)</b>	\$45.00	\$49.50
SS-PREP-015	<b>Exchangeable Cation Pre-treatment for Soluble Salts</b> Includes pretreatment with aqueous ethanol and aqueous glycerol to remove soluble salts. Recommended on soils with EC > 0.3 dS/m.	\$10.00	\$11.00
SS-PREP-020	<b>Exchangeable Cation Suppression of Carbonates</b> Includes pretreatment with aqueous ethanol and aqueous glycerol to remove soluble salts then extraction with 1M Alcoholic NH <sub>4</sub> Cl to suppress solid phase carbonates. Testing according to Method 15C1 with other agricultural tests.	\$40.00	\$44.00
SS-SING-204	<b>Fertility Report - Ferti-Tech Soil /Leaf Report Preparation</b>	\$50.00	\$55.00
SS-SING-071	<b>Fertility Report - Keycrobe Soil /Leaf Report Preparation</b>	\$50.00	\$55.00
SS-SING-234	<b>Fertility Report - Vital Soils Report Preparation</b>	\$50.00	\$55.00

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ITEM CODE	INDIVIDUAL SOIL TESTS (Cont.)	PRICE excl. GST	PRICE incl. GST
SS-SING-001	<b>Moisture Content - As Received (%) at 105°C</b> Oven-dry moisture content as a per cent of the 'as-received' sample (105°C).	\$10.00	\$11.00
SS-SING-066	<b>pH (1:5 CaCl<sub>2</sub>)</b>	\$15.00	\$16.50
SS-SING-034	<b>Phosphorus - Olsen</b> Includes Olsen Phosphorous - a measure of the intensity of Phosphorus.	\$20.00	\$22.00
SS-SING-032	<b>Phosphorus - Total Acid Extractable (includes preparation)</b>	\$40.00	\$44.00
SS-SING-037	<b>Phosphorus Buffer Index (PBI)</b>	\$20.00	\$22.00
SS-SING-076	<b>Potassium - Colwell</b>	\$25.00	\$27.50
SS-PREP-018	<b>Saturated Paste Extract</b> Includes extraction of saturated paste (14A3). Please select required analytical parameters from the waters codes.	\$70.00	\$77.00
SS-SING-027	<b>Silica - Total</b> Includes specialised NaOH high temperature fusion extraction of silicon.	\$120.00	\$132.00
SS-SING-209	<b>SOLVITA - Soil CO<sub>2</sub> Burst</b> Includes measurement of carbon dioxide released from soil due to biological activity.	\$60.00	\$66.00
SS-SING-086	<b>Texture - Australian Soil Classification (Isbell and NCST, 2016)</b>	\$25.00	\$27.50
SS-PREP-007	<b>Total Dry Weight - Air dry basis</b> Mass of the sample dried at 40°C.	\$6.00	\$6.60

### SOIL CARBON TESTING

All suites have preparation and digest/extract charges included.

ITEM CODE	SOIL CARBON SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-024	<b>Total Organic Carbon (TOC) on Topsoils under 2018 CFI Methodology</b> In CFI methodology topsoil refers to the 0 - 30 cm layer, however this should be selected on individual depth layers up to 30 cm in total. Includes Total Organic Carbon by LECO, gravel content, air-dry mass and gravimetric water content on the air-dry soil.	\$60.00	\$66.00
SS-PACK-139	<b>Total Organic Carbon (TOC) on Subsoils under 2018 CFI Methodology</b> In CFI methodology subsoil refers to the 30+cm layer however this should be selected on a depth layer of 30-100 cm only. Includes Total Organic Carbon by LECO, gravel content, air-dry mass and gravimetric water content on the air-dry soil.	\$90.00	\$99.00
SS-PACK-020	<b>Carbon Stability</b> Includes Total Carbon (TC), Labile Carbon.	\$50.00	\$55.00
SS-PACK-174	<b>Inorganic (Carbonate) Carbon by LECO</b> Includes Total Carbon (TC), Total Organic Carbon (TOC).	\$55.00	\$60.50

No additional charges if a suite is selected.

ITEM CODE	INDIVIDUAL SOIL CARBON TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-018	<b>Carbon - Labile</b>	\$20.00	\$22.00
SS-SING-062	<b>Carbon - Organic by Walkley Black</b>	\$40.00	\$44.00
SS-SING-061	<b>Carbon - Total Organic by LECO</b>	\$30.00	\$33.00
SS-PREP-023	<b>Sample Compositing for Soil Carbon Subsoils (30-100cm)</b> Includes compositing charge for composite subsoil samples tested under 2018 CFI methodology.	\$35.00	\$38.50
SS-PREP-022	<b>Sample Compositing for Soil Carbon Topsoils (0-30cm)</b> Includes compositing charge for composite topsoil samples tested under 2018 CFI methodology.	\$15.00	\$16.50

### FERTILISER TESTING

All suites have preparation and digest/extract charges included.

ITEM CODE	FERTILISER SUITES	PRICE excl. GST	PRICE incl. GST
FA-PACK-003	<b>Fertiliser - Liquid Analysis</b> Includes pH, EC, Total Dissolved Salts (TDS) (by calc.); Total Nitrogen, Total Phosphorus; Sodium, Potassium, Calcium, Magnesium, Sulfur, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper and Boron.	\$200.00	\$220.00
FA-PACK-001	<b>Fertiliser - Solid Analysis</b> Includes Moisture, pH, EC; Total Nitrogen (TN), Total Carbon (TC); Sodium, Potassium, Calcium, Magnesium, Phosphorus, Sulfur, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron.	\$200.00	\$220.00
FA-PACK-009	<b>Gypsum Assessment - Fertiliser</b> Includes Moisture Content, Calcium, Magnesium, Sodium and Sulfur.	\$120.00	\$132.00
FA-PACK-014	<b>Lime Assessment - Basic Fertiliser</b> Includes Moisture Content, Calcium, Magnesium, Acid Neutralising Capacity (ANC-BT) and Neutralising Value.	\$130.00	\$143.00
FA-PACK-010	<b>Lime Assessment - Coarse Fertiliser</b> Includes Moisture Content, Calcium, Magnesium, Acid Neutralising Capacity (ANC-BT), Neutralising Value and Dry Sieving Particle Size Analysis including > 1 mm, 0.85-1 mm, 0.3-0.85 mm, < 0.3 mm fractions.	\$160.00	\$176.00
FA-PACK-011	<b>Lime Assessment - Fine Fertiliser</b> Includes Moisture Content, Calcium, Magnesium, Acid Neutralising Capacity (ANC-BT), Neutralising Value and Laser Diffraction Particle Size Analysis including < 0.01 mm, 0.01-0.02 mm, 0.02-0.03 mm, 0.03-0.04 mm, 0.04-0.05 mm, 0.05-0.06 mm, 0.06-0.07 mm, 0.07-0.08 mm, 0.08-0.09 mm, 0.09-0.1 mm, 0.1-0.125 mm, 0.125-0.25 mm, 0.25-0.5 mm, 0.5-1.0 mm, > 1.0 mm fractions.	\$260.00	\$286.00
FA-PACK-007	<b>NPK Analysis - Fertiliser</b> Includes Total Nitrogen, Total Phosphorus, Total Potassium.	\$120.00	\$132.00

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ITEM CODE	FERTILISER SUITES (Cont.)	PRICE excl. GST	PRICE incl. GST
FA-PACK-012	<b>Particle Size Analysis – Dry Sieving – Coarse Fertiliser</b> Dry sieving Particle Size Analysis including > 1 mm, 0.85-1 mm, 0.3-0.85 mm, < 0.3 mm fractions.	\$50.00	\$55.00
FA-PACK-013	<b>Particle Size Analysis – Laser Diffraction – Fine Fertiliser</b> Laser Diffraction Particle Size Analysis including 3000 to 0.01 µm. Size fractions include < 0.01 mm, 0.01-0.02 mm, 0.02-0.03 mm, 0.03-0.04 mm, 0.04-0.05 mm, 0.05-0.06 mm, 0.06-0.07 mm, 0.07-0.08 mm, 0.08-0.09 mm, 0.09-0.1 mm, 0.1-0.125 mm, 0.125-0.25 mm, 0.25-0.5 mm, 0.5-1.0 mm, > 1.0 mm fractions. Price dependent upon application and sample amounts.	\$170.00	\$187.00
FA-PACK-008	<b>Soluble Nitrogen - Fertiliser</b> Includes water extractable nitrate and ammonium on fertilisers	\$80.00	\$88.00
FA-PACK-005	<b>Soluble Phosphorus I - Fertiliser</b> Includes Total Phosphorus, Total Soluble Phosphorus, Water Soluble Phosphorus, 2% Citrate Soluble Phosphorus.	\$100.00	\$110.00
FA-PACK-006	<b>Soluble Phosphorus II - Fertiliser</b> Includes Total Phosphorus, Total Soluble Phosphorus, Water Soluble Phosphorus, 2% Citrate Soluble Phosphorus and 2% Formic Acid Soluble Phosphorus.	\$140.00	\$154.00
FA-PACK-002	<b>Total Acid Extractable - Heavy Metals (ICPMS) - Fertiliser</b> Includes Lead, Cadmium, Arsenic, Nickel, Aluminium, Mercury, Chromium, Silver, Selenium.	\$80.00	\$88.00

No additional charges if a suite is selected.

ITEM CODE	INDIVIDUAL FERTILISER TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-238	<b>Chloride – Fertiliser</b> Includes water soluble chloride on fertilisers.	\$60.00	\$66.00
SS-PREP-014	<b>Fertiliser Handling Charge</b>	\$50.00	\$55.00
SS-SING-067	<b>Fluoride - Extractable</b>	\$60.00	\$66.00
SW-SING-124	<b>Insoluble Matter – Liquid Fertilisers</b> Includes insoluble matter mg/L.	\$30.00	\$33.00
SS-SING-240	<b>Insoluble Matter – Solid Fertilisers</b> Includes insoluble matter mg/kg.	\$40.00	\$44.00
SS-SING-001	<b>Moisture Content - As Received (%) at 105°C</b> Oven-dry moisture content as a per cent of the 'as-received' sample (105°C).	\$10.00	\$11.00
SS-SING-233	<b>Moisture Content - As Received (%) at 40°C</b> Moisture content as a per cent of air-dry equivalent soil (40°C).	\$10.00	\$11.00
SS-SING-193	<b>Solubility - Fertiliser</b> Includes maximum solubility at 20°C.	\$40.00	\$44.00
SW-SING-120	<b>Specific Gravity - Hydrometer method</b> Includes specific gravity and temperature on sample volumes greater than 200 mL.	\$20.00	\$22.00
SW-SING-035	<b>Specific Gravity - Volumetric method</b> Includes specific gravity and temperature on samples with small volumes.	\$20.00	\$22.00

## PLANT TISSUE AND GRAIN TESTING

All suites have preparation and digest/extract charges included.

ITEM CODE	PLANT TISSUE AND GRAIN SUITES	PRICE excl. GST	PRICE incl. GST
PA-PACK-001	<b>Plant Testing</b> 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-004	<b>Plant Testing with Leaf Washing</b> Includes Total Nitrogen (TN), Total Carbon (TC), Total Sulfur (TS); Sodium, Potassium, Calcium, Magnesium, Phosphorus, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron, Leaf Washing.	\$55.00	\$60.50
SS-PACK-118	<b>Residue Screen - Complete</b> Includes RS1 + RS2 (OCOP Pesticides + Synthetic Pyrethroids – 80+ Residues + Herbicide and Fungicide – 40+ Residue).	\$280.00	\$308.00
PA-PACK-006	<b>Sap Analysis</b> Includes Moisture, pH, EC, Total Nitrogen; Nitrate, Ammonium; Chloride; Calcium, Magnesium, Sodium, Potassium, Phosphorus, Sulfur, Boron, Copper, Iron, Manganese, Zinc, Aluminium, Molybdenum, Cobalt and Silicon; Brix.. Data Only (no interpretation).	\$80.00	\$88.00
PA-PACK-005	<b>Soluble Nitrogen</b> Includes Nitrate and Ammonium.	\$40.00	\$44.00

No additional charges if a suite is selected.

ITEM CODE	INDIVIDUAL PLANT TISSUE AND GRAIN TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-160	<b>Brix Reading</b>	\$20.00	\$22.00
SS-SING-038	<b>Chloride - Soluble</b>	\$30.00	\$33.00
SS-SING-225	<b>Dry Matter Content (%) at 105°C</b> Proportion of moisture and oven-dry solid in 'as received' sample (105°C).	\$10.00	\$11.00
SS-SING-204	<b>Fertility Report - Ferti-Tech Soil /Leaf Report Preparation</b>	\$50.00	\$55.00
SS-SING-071	<b>Fertility Report - Keyprobe Soil /Leaf Report Preparation</b>	\$50.00	\$55.00
SS-SING-022	<b>Iodine - NaOH Extraction</b>	\$100.00	\$110.00
SS-PREP-009	<b>Leaf Washing</b> Please advise with samples.	\$10.00	\$11.00



## Agricultural Price List - Edition: 21.1.1

ITEM CODE	INDIVIDUAL PLANT TISSUE AND GRAIN TESTS (Cont.)	PRICE excl. GST	PRICE incl. GST
SS-SING-136	<b>Protein (Crude)</b> Includes Total Nitrogen (TN) and Crude Protein (Calculation).	\$30.00	\$33.00

### FEED AND PRODUCE TESTING

All suites have preparation and digest/extract charges included.

ITEM CODE	FEED SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-107	<b>Feed Package - Cereal Grain (NIR- Near-Infrared Analysis)</b> For oat, barley, wheat and triticale grains. Includes Dry Matter/Moisture, Crude Protein, Acid Detergent Fibre, Neutral Detergent Fibre, Dry Matter Digestibility, Dry Organic Matter Digestibility and Metabolisable Energy, Starch and Sugar, Fat for oats.	\$100.00	\$110.00
SS-PACK-109	<b>Feed Package - Horse (NIR- Near-Infrared Analysis)</b> For hay, fresh cut pasture and cereal grains, includes Horse Digestible Energy. Includes Dry Matter/Moisture, Crude Protein, Acid Detergent Fibre, Neutral Detergent Fibre, Dry Matter Digestibility, Dry Organic Matter Digestibility and Metabolisable Energy and Horse Digestible Energy.	\$100.00	\$110.00
SS-PACK-108	<b>Feed Package - Pelleted (NIR- Near-Infrared Analysis)</b> For pelleted and mixed feeds. Includes Dry Matter/Moisture, Crude Protein, Acid Detergent Fibre, Neutral Detergent Fibre, Dry Matter Digestibility, Dry Organic Matter Digestibility and Metabolisable Energy, Fat and Ash.	\$100.00	\$110.00
SS-PACK-106	<b>Feed Package - Quality (NIR- Near-Infrared Analysis)</b> For hay, fresh cut pasture, straw, pasture silage and maize silage. Includes Dry Matter/Moisture, Crude Protein, Acid Detergent Fibre, Neutral Detergent Fibre, Dry Matter Digestibility, Dry Organic Matter Digestibility and Metabolisable Energy. Depending on fodder type can include: Water Soluble Carbohydrates, Starch and Sugar, Fat and Ash.	\$100.00	\$110.00
SS-PACK-145	<b>Soluble Nitrogen - Feed</b> Includes Nitrate and Ammonium.	\$40.00	\$44.00

No additional charges if a suite is selected.

ITEM CODE	INDIVIDUAL FEED TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-239	<b>Cyanide (Total Prussic Acid in Plant/Feed samples)</b> Includes sample preparation and Total Cyanide.	\$100.00	\$110.00

All suites have preparation and digest/extract charges included.

ITEM CODE	PRODUCE SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-084	<b>Produce Metals 1 (NATA Subcontracted)</b> Includes Cadmium and Lead.	\$95.00	\$104.50
SS-PACK-085	<b>Produce Metals 2 (NATA Subcontracted)</b> Includes Cadmium, Lead and Mercury.	\$110.00	\$121.00
SS-PACK-083	<b>Produce MRL - CR006 (C3/C5 Extended Residue)</b> Includes Standard Residue Screen - Analysis of Pesticides (Organo-chlorines (OC), Organo-phosphates (OP)), Herbicides, Phenols, Carbamates, Acaricides, Synthetic Pyrethroids, Fungicides, Other.	\$350.00	\$385.00
SS-PACK-082	<b>Produce MRL - CR006.2 (C3 Residue Screen)</b> Includes Standard Residue Screen - Analysis of Pesticides (Organo-chlorines (OC), Organo-phosphates (OP)), Herbicides, Phenols, Carbamates, Acaricides, Synthetic Pyrethroids, Fungicides, Other.	\$210.00	\$231.00
SS-PACK-144	<b>Produce MRL Organic Screen (C3 Residue Screen + Glyphosate+AMPA screen)</b> Includes RS1 + RS2 (OCOP Pesticides + Synthetic Pyrethroids - 80+ Residues + Herbicide and Fungicide - 40+ Residue) + Glyphosate Screens.	\$330.00	\$363.00

No additional charges if a suite is selected.

ITEM CODE	INDIVIDUAL PRODUCE TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-214	<b>Produce - Single Metal</b> Includes Cadmium or Lead or Mercury. Includes preparation.	\$80.00	\$88.00
SS-SING-211	<b>Produce Bacto 1</b> Includes Produce Ecoli.	\$45.00	\$49.50
SS-SING-212	<b>Produce Bacto 2</b> Includes Produce Salmonella.	\$60.00	\$66.00
SS-SING-213	<b>Produce Bacto 3</b> Includes Produce Listeria.	\$55.00	\$60.50

### COMPOST, BIOCHAR AND HAIR TESTING

Basic Compost Testing Only. See Compost and Landscape Soils Price List for comprehensive list.

ITEM CODE	COMPOST SUITES	PRICE excl. GST	PRICE incl. GST
CA-PACK-001	<b>Compost Total Nutrients</b> Includes Moisture, pH, EC; TC, TN, TC/TN Ratio, Organic Matter; Total (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se). Note: 200 g of sample is required.	\$100.00	\$110.00

## Agricultural Price List - Edition: 21.1.1

ITEM CODE	COMPOST SUITES (Cont.)	PRICE excl. GST	PRICE incl. GST
CA-PACK-004	<b>Compost Available Nutrients</b> Includes pH and EC; Soluble (Ca, Mg, K, P), Dissolved (NH <sub>4</sub> , NO <sub>3</sub> , S); Exchangeable (Ca, Mg, Na, K, H, Al, ECEC); Bray I and II Phosphorus; Colwell Phosphorus; Available Micronutrients (Fe, Cu, Mg, Zn, B, Si); TC, TN, TC/TN Ratio, Organic Matter. Note: 200 g of sample is required.	\$120.00	\$132.00
CA-PACK-019	<b>Compost Total and Available Nutrients</b> Includes Moisture, pH, EC; TC, TN, TC/TN Ratio, Organic Matter; Total (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se); Soluble (Ca, Mg, K, P), Dissolved (NH <sub>4</sub> , NO <sub>3</sub> , S); Exchangeable (Ca, Mg, Na, K, H, Al, ECEC); Bray I and II Phosphorus; Colwell Phosphorus; Available Micronutrients (Fe, Cu, Mg, Zn, B, Si); TC, TN, TC/TN Ratio, Organic Matter. Note: 300 g of sample is required.	\$190.00	\$209.00
CA-PACK-020	<b>Compost Total and Available Nutrients plus Heavy Metals</b> Includes Moisture, pH, EC; TC, TN, TC/TN Ratio, Organic Matter; Total (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se, Cd, Pb, As, Cr, Ni, Hg, Ag); Soluble (Ca, Mg, K, P), Dissolved (NH <sub>4</sub> , NO <sub>3</sub> , S); Exchangeable (Ca, Mg, Na, K, H, Al, ECEC); Bray I and II Phosphorus; Colwell Phosphorus; Available Micronutrients (Fe, Cu, Mg, Zn, B, Si); TC, TN, TC/TN Ratio, Organic Matter. Note: 300 g of sample is required.	\$220.00	\$242.00

All suites have preparation and digest/extract charges included.

ITEM CODE	BIOCHAR SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-111	<b>Biochar Totals Analysis</b> Includes Moisture Content, Bulk Density; Ash Content and Volatile Matter (750°C); pH, EC (1:10 water); Total Nitrogen (TN), Total Carbon (TC), Total Organic Carbon (TOC); Totals (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se, Cd, Pb, As, Cr, Ni, Hg, Ag); Acid Neutralising Capacity (ANC). Note: 500 g of sample is required to complete testing.	\$230.00	\$253.00
SS-PACK-163	<b>Biochar Totals Analysis Plus</b> Includes Moisture Content, Bulk Density; Ash Content and Volatile Matter (750°C); pH, EC (1:10 water); Total Nitrogen (TN), Total Carbon (TC), Total Organic Carbon (TOC); Total Hydrogen, Total Oxygen; Totals (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se, Cd, Pb, As, Cr, Ni, Hg, Ag); Acid Neutralising Capacity (ANC). Note: 500 g of sample is required to complete testing.	\$330.00	\$363.00
SS-PACK-143	<b>Soil Testing for Biochar Application</b> Includes Moisture, pH, EC (1:5 water); Total Organic Carbon (TOC), Total Nitrogen (TN), TC/TN Ratio; Available Nitrogen (Nitrate); Soluble Chloride; Total Metals (Sb, As, Be, B, Cd, Co, Cu, Cr, Pb, Mn, Mo, Ni, Se, Sn, V, Zn, S, P, Hg); Soluble Cations (Ca, Mg, K, Na). Note: 300 g of sample is required to complete testing.	\$205.00	\$225.50

All suites have preparation and digest/extract charges included.

ITEM CODE	HAIR SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-050	<b>Hair Tissue Mineral Analysis (HTMA) - Human and Animal</b> Includes Antimony, Aluminium, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Sulfur, Thallium, Thorium, Uranium, Vanadium and Zinc. Data only (no interpretation), Nitric Acid digest, minimum of 0.5 g of hair required which is equivalent to one heaped tablespoon. Collect from nape as close as possible to scalp as this reflects new growth. Provide sample double bagged to avoid contamination when opened at the laboratory.	\$80.00	\$88.00

## AGRICULTURAL WATER TESTING

All suites have preparation and digest/extract charges included.

ITEM CODE	AGRICULTURAL WATER SUITES	PRICE excl. GST	PRICE incl. GST
SW-PACK-007	<b>Agricultural Stock Use</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation); Water Hardness; Total Alkalinity; Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury; Nitrate, Ammonium, Phosphate; Faecal Coliforms.	\$120.00	\$132.00
SW-PACK-005	<b>Irrigation and Livestock Suitability – Comprehensive</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Water Hardness, Total Alkalinity, Turbidity, Total Coliforms and E.Coli Bacteria; Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Manganese, Nickel, Lead, Zinc; Nitrate, Ammonium, Phosphate; Sodium, Potassium, Calcium, Magnesium, Chloride, Sulfate, Sodium Absorption Ratio (SAR).	\$150.00	\$165.00
SW-PACK-004	<b>Irrigation Suitability - Basic</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Iron and Manganese; Sodium, Potassium, Calcium, Magnesium, Sulfate, Chloride; Turbidity, Total Alkalinity, Water Hardness (calculation), Saturation Index; Sodium Absorption Ratio (SAR).	\$80.00	\$88.00
SW-PACK-024	<b>Pesticide Screen 2a - Low Level</b> Includes Low Level Pesticide Analysis: Organo-chlorines (OC) and Organo-phosphates (OP).	\$130.00	\$143.00
SW-PACK-002	<b>Water Quality - Basic</b> For drinking and domestic use. Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Water Hardness, Total Alkalinity, Turbidity, Total Coliforms, E.Coli Bacteria.	\$70.00	\$77.00
SW-PACK-003	<b>Water Quality - Comprehensive</b> For drinking and domestic use. Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Water Hardness, Total Alkalinity, Turbidity, Total Coliforms and E.Coli Bacteria; Nitrate; Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Manganese, Nickel, Lead, Zinc.	\$110.00	\$121.00
SW-SING-022	<b>Algae - Basic ID and Count (Blue Green Algae only) by Microscopic Identification</b>	\$110.00	\$121.00
SW-SING-123	<b>Algae - Full ID and Count by Microscopic Identification</b>	\$160.00	\$176.00

## NATA ACCREDITED TESTS (Lab Acc. No. 14960)



ID	Tests	Reference
S1	Soil pH and Electrical Conductivity	In-house (re R&L 3A1, 4A1)
S4a	Total Carbon, Nitrogen, Sulfur by Combustion in Soil and Plant	In-house (re R&L 6B2b, 7AS)
S8	DTPA – Cu, Zn, Mn, Fe	In-house (re R&L 12A1)
S9c	Exchangeable bases and CEC-1M Ammonium Acetate	In-house (re R&L 15D3)
S14	Acid Neutralising Capacity	In-house (re National Guidance NLM-5.2)
S15b	Total Organic Carbon in Soil by Combustion	In-house (re R&L 6B3)
S16b	Titrateable Actual Acidity	In-house (re National Guidance NLM-3.2)
S20	Chromium Reducible Sulfur	In-house (re National Guidance NLM-2.1)
S21	Acid Sulfate Soil pH-F and pH-FOX Testing	In-house (re National Guidance)
S38	Lead in Paint	In-house
W1	Turbidity	In-house
W4	Total Nitrogen/Total Phosphorous (Lachat)	In-house (re APHA 4500 P-H N-C)
W6	Nitrite in Waters (Lachat)	APHA 4500 NO3-I
W7	Nitrate in Waters (Lachat)	APHA 4500 NO3-F
W8	Ortho-Phosphate in Waters (Lachat)	APHA 4500 P-G
W9	Ammonia in Waters (Lachat)	APHA 4500 NH3-H
W25	Total Suspended Solids	APHA 2540-D
W26	BOD in Waters and Wastewaters	APHA 5210-B
W28a	Total Oils and Grease Automated	APHA 5520-D
W31	Water pH and Conductivity	APHA 4500-H & 2510-B
W32	ICPMS Metals Analysis in Soils and 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, Ti, Th, Sn, U, V, Zn)	In-house (re APHA 3125)
W32a	Trace Metals in Saline Water (Al, As, Ba, Be, Bi, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Ti, U, V, Zn)	In-house (re APHA 3125)
W33	Soluble Chlorine as Chloride in Waters	In-house (by ICPMS)

## ASPAC TESTS (for Plant and Soil materials)



Soil tests	Reference
pH	R&L 4A1, 4B1, 4B2
Electrical Conductivity	R&L 3A1
Bray 1, Colwell, Olsen Phosphorus	R&L 9E2, 9B2, 9C2
Total Phosphorus	R&L 17C1
Exchangeable Cations – Ca, Mg, K, Na	R&L 15D3
Exchangeable Cations – H, Al	R&L 15G1
DTPA - Fe, Cu, Zn, Mn	R&L 12A1
Total Carbon & Nitrogen	R&L 6B2b, 7A5
Nitrate & Ammonium Nitrogen	R&L 7C2
Soluble Chloride	R&L 5A2
Extractable Boron	R&L 12C2
Extractable Sulfur	R&L 10D1
Phosphorus Buffer Index	R&L 9I2b
Mehlich – Ca, Mg, K, Na, Fe, Cu, Zn, Mn, P, S, Al, B	R&L 18F1

Acid Sulfate Soil Tests	Reference
Chromium Reducible Sulfur	NLM-2.1
Potassium Chloride pH	NLM-3.1
Titrateable Actual Acidity	NLM-3.2
Potassium Chloride Extractable Sulfur	NLM-4.1
Peroxide Sulfur	NLM-2.2
4 M Hydrochloric Acid Extractable Sulfur	NLM-4.1
Acid Neutralising Capacity (BT)	NLM-5.1

Plant Tissue Tests	Reference
Total Nutrients (Ca, Mg, P, K, Na, Si, B, S, Cd, Co, Fe, Pb, Mn, Mo, Se, Zn)	AE-24
LECO – C, N, S	CA-37
Soluble Chloride	BB-32

Notes: R&L methods from Rayment & Lyons (2011). NLM methods from National Acid Sulfate Soils Guidance (2018). APHA methods from American Public Health Association (2017). See EAL website under 'About' for current scope of accreditation for NATA and ASPAC.