



**Southern Cross
University**

EAL Environmental
Analysis
Laboratory



Analytical Services

Compost, potting mix and landscape soils price list

Edition: 21.1.1

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





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Compost, potting mix and landscape soils 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; Shimadzu 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 procedure for Australian Standards:

- Minimum of 4 kg required (10 L plastic bucket or large heavy duty plastic bag is most suitable)
- Label samples as per relevant Australian Standard
- Call EAL with any questions.

Collection procedure for basic Compost and Soil samples

- 200-300 g required (half a plastic lunch bag is most suitable)
- Collect a representative soil sample
- Label bag with site, paddock 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. CA-PACK-011
- Credit card and cheque are the preferred methods of payment.

Package and send samples

- Package sample(s) in a 10 L sealable plastic bucket or large heavy duty sealed plastic bag
- 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
Compost/Landscape Soils Co-ordinator	Brian Smith	0437 016 091	brian.smith@scu.edu.au
Agricultural Co-ordinator	Kris Saville	0437 016 017	kris.saville@scu.edu.au

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

ABN: 41 995 651 524

COMPOST AND LANDSCAPE SOIL ANALYTICAL SERVICES

COMPOST TESTING

All suites have preparation and digest/extract charges included.

ITEM CODE	AS4454 COMPOST PRODUCT SUITES	PRICE excl. GST	PRICE incl. GST
CA-PACK-011	Mature Compost Analysis under AS4454 Includes Bulk Density; Moisture, pH, EC; Wettability; TOC, TN, TC/TN Ratio; NO ₃ , NH ₄ , PO ₄ , NH ₄ /NO ₃ Ratio; Particle Size > 5 mm and < 16 mm; Physical Contaminants - Glass, Metal, Rigid Plastics > 2 mm, Light Plastics > 5 mm, Stones and Clay > 5mm; Totals (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se, Cd, Pb, As, Cr, Ni, Hg, Ag); Bioassay; Plant Propagules, Nitrogen Drawdown Index, Specific Oxygen Uptake Rate, Solvita; Low Level Pesticides (Organo-chlorines, Polychlorinated Biphenyls); Salmonella, Ecoli, Faecal Coliforms. Acid Neutralising Capacity required if pH > 8.0. Note: 4 kg of sample required.	\$600.00	\$660.00
CA-PACK-003	Composted Product Analysis under AS4454 Includes Bulk Density; Moisture, pH, EC; Wettability; TOC, TN, TC/TN Ratio; NO ₃ , NH ₄ , PO ₄ , NH ₄ /NO ₃ Ratio; Particle Size > 5 mm and < 16 mm; Physical Contaminants - Glass, Metal, Rigid Plastics > 2 mm, Light Plastics > 5 mm, Stones and Clay > 5 mm; Totals (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se, Cd, Pb, As, Cr, Ni, Hg, Ag); Bioassay; Plant Propagules, Nitrogen Drawdown Index; Low Level Pesticides (Organo-chlorines, Polychlorinated Biphenyls); Salmonella, Ecoli, Faecal Coliforms. Acid Neutralising Capacity required if pH > 8.0. Note: 4 kg of sample	\$450.00	\$495.00
CA-PACK-023	Pasteurized Product Analysis under AS4454 Includes Moisture, pH, EC; Wettability; TOC, TN, TC/TN Ratio; PO ₄ ; Particle Size > 5 mm and < 16 mm; Physical Contaminants - Glass, Metal, Rigid Plastics > 2 mm, Light Plastics > 5 mm, Stones and Clay > 5 mm; Totals (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se, Cd, Pb, As, Cr, Ni, Hg, Ag); Plant Propagules; Low Level Pesticides (Organo-chlorines, Polychlorinated Biphenyls); Salmonella, Ecoli, Faecal Coliforms. Acid Neutralising Capacity required if pH > 8.0. Note: 4 kg of sample required.	\$320.00	\$352.00
CA-PACK-024	Raw Mulch Analysis under AS4454 Includes pH, EC; TOC, TN, TC/TN Ratio; Particle Size > 5 mm and < 16 mm; Physical Contaminants - Glass, Metal, Rigid Plastics > 2mm, Light Plastics > 5 mm, Stones and Clay > 5 mm; Totals (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se, Cd, Pb, As, Cr, Ni, Hg, Ag); Plant Propagules; Low Level Pesticides (Organo-chlorines, Polychlorinated Biphenyls). Acid Neutralising Capacity required if pH > 8.0. Note: 4 kg of sample required.	\$180.00	\$198.00

All packs have preparation and digest/extract charges included.

ITEM CODE	AS4454 COMPOST BASIC SUITES	PRICE excl. GST	PRICE incl. GST
CA-PACK-005	Compost Soluble Nutrients plus Carbon & Nitrogen under AS4454 Includes Moisture, pH, EC; TOC, TN, TC/TN Ratio; NO ₃ , NH ₄ , PO ₄ , NH ₄ /NO ₃ Ratio. Note: 200 g of sample is required to complete testing.	\$90.00	\$99.00
CA-PACK-013	LECO - Total Carbon, Total Nitrogen under AS4454/AS4419 Includes Total Carbon (TC) and Total Nitrogen (TN), TC/TN Ratio. Note: 200 g of sample is required to complete testing.	\$35.00	\$38.50
CA-PACK-014	Nutrients - Water Extractable under AS4454 Includes Moisture, Nitrate, Phosphate, Ammonium (1:5 water). Note: 200 g of sample is required to complete testing.	\$50.00	\$55.00
CA-PACK-010	pH and EC under AS4454 Includes Moisture, pH and EC. Note: 200 g of sample is required to complete testing.	\$40.00	\$44.00

All packs have preparation and digest/extract charges included.

ITEM CODE	BASIC COMPOST SUITES	PRICE excl. GST	PRICE incl. GST
CA-PACK-020	Compost Total and Available Nutrients plus Heavy Metals 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 ₄ , NO ₃ , 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
CA-PACK-019	Compost Total and Available Nutrients 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 ₄ , NO ₃ , 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-001	Compost Total Nutrients 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
CA-PACK-004	Compost Available Nutrients Includes pH and EC; Soluble (Ca, Mg, K, P), Dissolved (NH ₄ , NO ₃ , 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-008	Compost Water Soluble Nutrients Includes Moisture; Nitrate, Ammonium; Chloride; Calcium, Magnesium, Sodium, Potassium, Phosphorus, Sulfur, Boron, Copper, Iron, Manganese, Zinc, Aluminium, Molybdenum and Cobalt. Note: 200 g of sample is required to complete testing.	\$90.00	\$99.00

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All packs have preparation and digest/extract charges included.

ITEM CODE	OTHER COMPOST SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-142	The Compost Order 2016 This order applies to compost. In this order, compost means any combination of mulch, garden organics, food waste, manure and paunch that has undergone composting. Includes physical contaminants with glass, metal, rigid plastics, light flexible film plastics, treated timber and asbestos. Also includes Salmonella, Ecoli and Faecal Coliforms. Note: 2 kg of sample is required to complete testing.	\$220.00	\$242.00
SS-PACK-169	The Mulch Order 2016 This order applies to mulch. In this order, mulch means plant material shredded and/or screened to a preferred particle size grading for particular applications. Includes particle Size > 5 mm and < 16 mm, physical contaminants with glass, metal, rigid plastics, light flexible film plastics, polystyrene, treated timber and asbestos. Also includes Salmonella, Ecoli and Faecal Coliforms. Also includes chemical contaminants Low Level Pesticides (Organo-chlorines, Polychlorinated Biphenyls) and heavy metals. Note: 2 kg of sample is required to complete testing.	\$320.00	\$352.00
SS-PACK-170	The Pasteurised Garden Organics Order 2016 This order applies to pasteurised garden organics. In this order, pasteurised garden organics means mulch and/or garden organics that have undergone the process of pasteurisation as a minimum. Includes physical contaminants with glass, metal, rigid plastics, light flexible film plastics, treated timber and asbestos. Also includes Salmonella, Ecoli and Faecal Coliforms and plant propagules. Note: 2 kg of sample is required to complete testing.	\$260.00	\$286.00
SS-PACK-026	Exchangeable Cations - 15D1 - 1 M NH₄OAc Includes exchangeable Sodium, Potassium, Calcium, Magnesium by 1 M NH ₄ OAc at pH 7.0. Pretreatment for soluble salts when EC is > 0.3 dS/m.	\$50.00	\$55.00
SS-PACK-035	SOUR Test Includes Moisture, Volatile Solids Concentration, Specific Oxygen Uptake Rate (SOUR) with an incubation of 20°C.	\$100.00	\$110.00
SS-PACK-110	Total NPK Analysis Includes Total Nitrogen, Total Phosphorus, Total Potassium.	\$60.00	\$66.00

Unless otherwise indicated 200 g of sample is required.

ITEM CODE	INDIVIDUAL COMPOST TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-090	Acid Neutralising Capacity (ANC-BT) This method is used to measure Acid Neutralising Capacity (ANC-BT) where pH-KCl > 6.5.	\$30.00	\$33.00
SS-SING-168	Ammonium (1:5 water) under AS4454 Includes moisture, extractable ammonium.	\$30.00	\$33.00
SS-SING-139	Bulk Density under AS4454/AS3743 Lab based bulk density on compost and potting mix. Note: 1 kg of sample is required to complete testing.	\$20.00	\$22.00
SS-SING-062	Carbon - Organic by Walkley Black	\$40.00	\$44.00
SS-SING-177	Carbon - Organic Matter under AS4454/AS4419 Includes moisture correction, Total Organic Carbon (TOC), Organic Matter by calculation.	\$40.00	\$44.00
SS-SING-175	Carbon - Total (LECO) under AS4454/AS4419 Includes moisture correction, Total Carbon (TC).	\$30.00	\$33.00
SS-SING-176	Carbon - Total Organic (LECO) under AS4454/AS4419 Includes moisture correction, Total Organic Carbon (TOC).	\$40.00	\$44.00
SS-SING-172	Chloride (1:5 water) under AS4454 Includes moisture, soluble chloride.	\$30.00	\$33.00
SS-SING-180	EC (1:5 water) under AS4454 Includes moisture, EC (1:5 water).	\$25.00	\$27.50
SS-SING-170	Nitrate (1:5 water) under AS4454 Includes moisture, extractable nitrate.	\$30.00	\$33.00
SS-SING-174	Nitrogen - Total (LECO) under AS4454/AS4419 Includes moisture correction, Total Nitrogen (TN).	\$30.00	\$33.00
SS-SING-119	Nitrogen Drawdown Index (NDI) under AS4454/AS4419 Note: 2 kg of sample is required to complete testing.	\$95.00	\$104.50
SS-SING-123	Particle Size Grading under AS4454 Includes percentage mass retained on 5 mm and 16 mm sieve. Note: 2 kg of sample is required to complete testing.	\$30.00	\$33.00
SS-SING-178	pH (1:5 water) under AS4454 Includes moisture, pH (1:5 water).	\$25.00	\$27.50
SS-SING-165	Phosphate (1:5 water) under AS4454 Includes moisture, extractable phosphate.	\$30.00	\$33.00
SS-SING-145	Plant Growth Test (Bioassay) - TMECC 05.05-B In-vitro germination and root elongation. Note: 1 L of sample is required to complete testing.	\$50.00	\$55.00
SS-SING-189	Plant Growth Test (Bioassay) under AS4454 Used on fresh soils and composts. Seedling emergence and relative root growth. Note: 1 kg of sample is required to complete testing.	\$50.00	\$55.00
SS-SING-219	Solids Energy Code (Calorific Value)	\$140.00	\$154.00
SS-SING-245	Vermicast Sieve Test under AS4454:2012 Includes percentage mass retained on 1.18 mm sieve. Note: 1 kg of sample is required to complete testing.	\$40.00	\$44.00
SS-SING-137	Viable Plant Propagules under AS4454/AS3743 Note: 1 kg of sample required to complete testing.	\$50.00	\$55.00
SS-SING-122	Visible Contaminants under AS4454 Applies to composts from agricultural or source separated organics. Includes contamination with glass, metal, rigid plastics, stones, lumps of clay, light flexible film plastics. Note: 2 kg of sample is required to complete testing.	\$40.00	\$44.00

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ITEM CODE	INDIVIDUAL COMPOST TESTS (Cont.)	PRICE excl. GST	PRICE incl. GST
SS-SING-072	Wettability under AS4454/AS3743	\$20.00	\$22.00

POTTING MIX TESTING

All packs have preparation and digest/extract charges included.

ITEM CODE	AS3743 POTTING MIX PRODUCT SUITES	PRICE excl. GST	PRICE incl. GST
CA-PACK-007	Potting Mix and Growing Media - Premium under AS3743 Includes Moisture Content, Bulk Density, pH, EC (1:1.5 water); Chloride, Sodium, Calcium, Magnesium, Potassium, Phosphate, Nitrate, Ammonium, Sulfate, Iron, Copper, Manganese, Zinc, Boron; Air-Filled Porosity (AFP); Water Holding Capacity (WHC); Wettability; Plant Growth Bioassay (Toxicity Index), Nitrogen Drawdown Index (NDI). Note: 3 kg of sample is required to complete testing.	\$300.00	\$330.00
CA-PACK-006	Potting Mix and Growing Media - Regular under AS3743 Includes Moisture Content, Bulk Density, pH, EC (1:1.5 water); Chloride, Sodium, Calcium, Magnesium, Potassium, Ammonium, Iron, Copper, Manganese, Zinc, Boron; Air-Filled Porosity (AFP), Water Holding Capacity (WHC); Wettability; Plant Growth Bioassay (Toxicity Index); Nitrogen Drawdown Index (NDI). Note: 3 kg of sample is required to complete testing.	\$275.00	\$302.50

All packs have preparation and digest/extract charges included.

ITEM CODE	AS3743 POTTING MIX BASIC SUITES	PRICE excl. GST	PRICE incl. GST
CA-PACK-021	AFP and WHC under AS3743:2003 Includes Air-Filled Porosity (AFP) and Water Holding Capacity (WHC). Note: 2 kg of sample is required to complete testing.	\$50.00	\$55.00
CA-PACK-017	Extractable Macronutrients (Ammonium Acetate) under AS3743 Includes Calcium, Magnesium, Sodium, Potassium, Phosphorus, Sulfur (1:1.5). Note: 200 g of sample is required to complete testing.	\$40.00	\$44.00
CA-PACK-018	Extractable Micronutrients (DTPA) under AS3743 Includes Calcium, Magnesium, Sodium, Potassium, Phosphorus, Sulfur, Iron, Copper, Zinc, Manganese (1:1.5). Note: 200 g of sample is required to complete testing.	\$40.00	\$44.00
CA-PACK-015	Nutrients - Water Extractable under AS3743 Includes Nitrate, Ammonium (1:1.5 water). Note: 200 g of sample is required to complete testing.	\$40.00	\$44.00
CA-PACK-016	pH and EC under AS3743 Includes pH and EC (1:1.5 water). Note: 200 g of sample is required to complete testing.	\$30.00	\$33.00

Unless otherwise indicated 200 g of sample is required.

ITEM CODE	INDIVIDUAL POTTING MIX TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-120	Air-filled Porosity (AFP) under AS3743 Note: 2 kg of sample is required to complete testing.	\$25.00	\$27.50
SS-SING-169	Ammonium (1:1.5 water) under AS3743 Includes extractable ammonium.	\$30.00	\$33.00
SS-SING-139	Bulk Density under AS4454/AS3743 Lab based bulk density on compost and potting mix. Note: 1 kg of sample is required to complete testing.	\$20.00	\$22.00
SS-SING-177	Carbon - Organic Matter under AS4454/AS3743/AS4419 Includes moisture correction, Total Organic Carbon (TOC), Organic Matter by calculation.	\$40.00	\$44.00
SS-SING-175	Carbon - Total (LECO) under AS4454/AS3743/AS4419 Includes moisture correction, Total Carbon (TC).	\$30.00	\$33.00
SS-SING-176	Carbon - Total Organic (LECO) under AS4454/AS3743/AS4419 Includes moisture correction, Total Organic Carbon (TOC).	\$40.00	\$44.00
SS-SING-173	Chloride (1:1.5 water) under AS3743 Includes soluble chloride.	\$30.00	\$33.00
SS-SING-181	EC (1:1.5 water) under AS3743	\$15.00	\$16.50
SS-SING-171	Nitrate (1:1.5 water) under AS3743 Includes extractable nitrate.	\$30.00	\$33.00
SS-SING-174	Nitrogen - Total (LECO) under AS4454/AS3743/AS4419 Includes moisture correction, Total Nitrogen (TN).	\$30.00	\$33.00
SS-SING-188	Nitrogen Drawdown Index (NDI) under AS3743 Note: 2 kg of sample is required to complete testing.	\$95.00	\$104.50
SS-SING-179	pH (1:1.5 water) under AS3743	\$15.00	\$16.50
SS-SING-166	Phosphate (1:1.5 water) under AS3743/AS4419 Includes extractable phosphate.	\$30.00	\$33.00
SS-SING-190	Plant Growth Test (Bioassay) under AS3743/AS4419 Used on fresh soils and composts. Seedling emergence and relative root growth. Note: 1 kg of sample is required to complete testing.	\$50.00	\$55.00
SS-SING-137	Viable Plant Propagules under AS4454/AS3743 Note: 1 kg of sample required to complete testing.	\$50.00	\$55.00
SS-SING-121	Water Holding Capacity (WHC) under AS3743 Note: 2 kg of sample is required to complete testing.	\$25.00	\$27.50
SS-SING-072	Wettability under AS4454/AS3743	\$20.00	\$22.00

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LANDSCAPE SOIL TESTING

All packs have preparation and digest/extract charges included.

ITEM CODE	AS4419:2018 SOIL SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-120	Landscape Soils (On Grade) compliance under AS4419:2018 Includes Bulk Density; Texture; pH and EC; Exchangeable Cations (pH and EC dependant); Available Phosphorus; Available Nitrogen (Ammonium plus Nitrate); Organic Matter (Total Organic Carbon); Large Particles; Bioassay; Water Repellence; Physical Contaminants; Chemical Contaminants (Heavy Metals and Low Level (Pesticides, PCB)); Plant Propagules. Note: 4 kg of sample is required to complete testing.	\$500.00	\$550.00
SS-PACK-127	Landscape Soils (On Grade) monitoring under AS4419:2018 Includes Bulk Density; Texture; pH and EC; Exchangeable Cations (pH and EC dependant); Available Phosphorus; Available Nitrogen (Ammonium plus Nitrate); Organic Matter (Total Organic Carbon); Large Particles; Bioassay; Water Repellence. Note: 4 kg of sample is required to complete testing.	\$320.00	\$352.00
SS-PACK-121	Low Density Media (On Slab) compliance under AS4419:2018 Includes Bulk Density; pH and EC; Air-Filled Porosity; Water Holding Capacity; Available Phosphorus; Available Nitrogen (Ammonium), Available Nitrogen (Ammonium plus Nitrate); Organic Matter (Total Organic Carbon); Nitrogen Drawdown Index; Physical Contaminants; Chemical Contaminants (Heavy Metals and Low Level (Pesticides, PCB)); Plant Propagules. Note: 4 kg of sample is required to complete testing.	\$415.00	\$456.50
SS-PACK-128	Low Density Media (On Slab) monitoring under AS4419:2018 Includes Bulk Density; pH and EC; Air-Filled Porosity; Water Holding Capacity; Available Phosphorus; Available Nitrogen (Ammonium), Available Nitrogen (Ammonium plus Nitrate); Organic Matter (Total Organic Carbon); Nitrogen Drawdown Index. Note: 3 kg of sample is required to complete testing.	\$235.00	\$258.50
SS-PACK-122	Soils for Turf and Lawns compliance under AS4419:2018 Includes Bulk Density; Texture; pH and EC; Exchangeable Cations (pH and EC dependant); Available Phosphorus; Available Nitrogen (Ammonium plus Nitrate); Organic Matter (Total Organic Carbon); Large Particles; Dispersibility; Permeability; Water Repellence; Physical Contaminants; Chemical Contaminants (Heavy Metals and Low Level (Pesticides, PCB)); Plant Propagules. Note: 4 kg of sample is required to complete testing.	\$545.00	\$599.50
SS-PACK-129	Soils for Turf and Lawns monitoring under AS4419:2018 Includes Bulk Density; Texture; pH and EC; Exchangeable Cations (pH and EC dependant); Available Phosphorus; Available Nitrogen (Ammonium plus Nitrate); Organic Matter (Total Organic Carbon); Large Particles; Dispersibility; Permeability; Water Repellence. Note: 3 kg of sample is required to complete testing.	\$365.00	\$401.50
SS-PACK-123	Structural Support Soil and Wetlands compliance under AS4419:2018 Includes Bulk Density; Texture; pH and EC; Exchangeable Cations (pH and EC dependant); Available Phosphorus; Available Nitrogen (Nitrate); Organic Matter (Total Organic Carbon); Water Repellence; Permeability; Physical Contaminants; Chemical Contaminants (Heavy Metals and Low Level (Pesticides, PCB)); Plant Propagules. Note: 4 kg of sample is required to complete testing. Particle Size Analysis not included (SS-SING-243 & SS-SING-244).	\$490.00	\$539.00
SS-PACK-130	Structural Support Soil and Wetlands monitoring under AS4419:2018 Includes Bulk Density; Texture; pH and EC; Exchangeable Cations (pH and EC dependant); Available Phosphorus; Available Nitrogen (Nitrate); Organic Matter (Total Organic Carbon); Water Repellence; Permeability. Note: 3 kg of sample is required to complete testing.	\$310.00	\$341.00

All packs have preparation and digest/extract charges included.

ITEM CODE	AS4419:2003 SOIL SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-057	Low Density Testing under AS4419:2003 Includes Moisture, pH, EC; Wettability; Bulk Density; Nitrogen Drawdown Index (NDI); Toxicity; Permeability; Organic Matter; Ammonium, Phosphate; Large Particles; Heavy Metals Zinc, Copper, Mercury, Lead, Nickel, Cadmium, Chromium, Selenium, Arsenic; Low Level Pesticides (Organo-chlorines (OC), Polychlorinated Biphenyls (PCB)). Note: 4 kg of sample is required to complete testing.	\$450.00	\$495.00
SS-PACK-165	Organic Soil Testing under AS4419:2003 Includes Moisture, pH, EC; Wettability; Bulk Density; Nitrogen Drawdown Index (NDI); Toxicity; Permeability; Organic Matter; Ammonium, Phosphate; Large Particles; Heavy Metals Zinc, Copper, Mercury, Lead, Nickel, Cadmium, Chromium, Selenium, Arsenic; Low Level Pesticides (Organo-chlorines (OC), Polychlorinated Biphenyls (PCB)). Note: 4 kg of sample is required to complete testing.	\$450.00	\$495.00
SS-PACK-058	Natural/Soil Blend Soil Test under AS4419:2003 Includes Moisture, pH, EC; Texture; Wettability; Bulk Density; Nitrogen Drawdown Index (NDI); Toxicity; Permeability; Dispersibility; Organic Matter; Phosphate; Large Particles; Heavy Metals Zinc, Copper, Mercury, Lead, Nickel, Cadmium, Chromium, Selenium, Arsenic; Low Level Pesticides (Organo-chlorines (OCs), Polychlorinated Biphenyls (PCBs)). Note: 4 kg of sample is required to complete testing.	\$480.00	\$528.00

All packs have preparation and digest/extract charges included.

ITEM CODE	AS4419 SOIL BASIC SUITES	PRICE excl. GST	PRICE incl. GST
CA-PACK-013	LECO - Total Carbon, Total Nitrogen under AS4454/AS3743/AS4419 Includes Total Carbon (TC) and Total Nitrogen (TN), TC/TN Ratio. Note: 200 g of sample is required to complete testing.	\$35.00	\$38.50
SS-PACK-013	Pesticide Screen 1a Includes Organo-chlorines (OC), Organo-phosphates (OP).	\$80.00	\$88.00
SS-PACK-131	pH and EC under AS4419:2018 Includes pH and EC (1:5 water) except low density soils. Note: 200 g of sample is required to complete testing.	\$25.00	\$27.50
SS-PACK-146	pH and EC under AS4419:2018 Includes pH and EC (1:1.5 water) for low density soils. Note: 200 g of sample is required to complete testing.	\$30.00	\$33.00
SS-PACK-132	Total Available Nitrogen under AS4419:2018 Includes KCl extractable Nitrate and Ammonium. Note 200 g of sample is required to complete testing.	\$25.00	\$27.50

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All packs have preparation and digest/extract charges included.

ITEM CODE	OTHER SOIL SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-034	DTPA Extractable Micronutrients Includes Iron, Copper, Zinc, Manganese.	\$40.00	\$44.00
SS-PACK-027	Exchangeable Cations - 15C1 - Alcoholic 1 M NH₄Cl Includes exchangeable Sodium, Potassium, Calcium, Magnesium by Alcoholic 1 M NH ₄ Cl at pH 8.5. Ideal for soils where pH > 7.3.	\$70.00	\$77.00
SS-PACK-026	Exchangeable Cations - 15D1 - 1 M NH₄OAc Includes exchangeable Sodium, Potassium, Calcium, Magnesium by 1 M NH ₄ OAc at pH 7.0. Pretreatment for soluble salts when EC is > 0.3 dS/m.	\$50.00	\$55.00
SS-PACK-001	Exchangeable Cations - 15D3 - 1 M NH₄OAc plus Acidity (15G1) Includes exchangeable Sodium, Potassium, Calcium, Magnesium by 1 M NH ₄ OAc at pH 7.0 and exchangeable acidity (Hydrogen + Aluminium) by 1 M KCl.	\$50.00	\$55.00

Unless otherwise indicated 200 g of sample is required.

ITEM CODE	INDIVIDUAL SOIL TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-183	Bulk Density under AS4419 Lab based bulk density on landscape soils. Note: 1 kg of sample is required to complete testing.	\$20.00	\$22.00
SS-SING-177	Carbon - Organic Matter under AS4454/AS4419 Includes moisture correction, Total Organic Carbon (TOC), Organic Matter by calculation.	\$40.00	\$44.00
SS-SING-175	Carbon - Total (LECO) under AS4454/AS4419 Includes moisture correction, Total Carbon (TC).	\$30.00	\$33.00
SS-SING-176	Carbon - Total Organic (LECO) under AS4454/AS4419 Includes moisture correction, Total Organic Carbon (TOC).	\$40.00	\$44.00
SS-SING-172	Chloride (1:5 water) under AS4454 Includes moisture, soluble chloride.	\$30.00	\$33.00
SS-SING-167	Dispersability under AS4419	\$40.00	\$44.00
SS-SING-180	EC (1:5 water) under AS4454 Includes moisture, EC (1:5 water).	\$25.00	\$27.50
SS-SING-229	Ethanol repellence of soil under AS4419:2018 Includes ethanol repellence of soil. Note: 200 g of sample is required to complete testing.	\$15.00	\$16.50
SS-SING-174	Nitrogen - Total (LECO) under AS4454/AS4419 Includes moisture correction, Total Nitrogen (TN).	\$30.00	\$33.00
SS-SING-119	Nitrogen Drawdown Index (NDI) under AS4454/AS4419 Note: 2 kg of sample is required to complete testing.	\$95.00	\$104.50
SS-SING-243	Particle Size Analysis for Wetlands under AS4419:2018 Particle size of sediment and soil by hydrometer and sieve. Percentage mass retained on sieve. Includes > 2 mm, 1.0-2.0 mm, 0.5-1.0 mm, 0.25-0.5 mm, 0.1-0.25 mm, 50 µm-0.1 mm, 2-50 µm, < 2 µm fractions. Note: 500 g of sample is required to complete testing.	\$110.00	\$121.00
SS-SING-184	Particles Size Grading - Large particles under AS4419:2003 Includes percentage mass retained on 10 mm, 20 mm, 50 mm and 75 mm sieve. Note: 2 kg of sample is required to complete testing.	\$40.00	\$44.00
SS-SING-226	Particles Size Grading - Large particles under AS4419:2018 Includes percentage mass retained on 2 mm, 5 mm, 20 mm sieve. Note: 2 kg of sample is required to complete testing.	\$40.00	\$44.00
SS-SING-244	Particles Size Grading for Structural Support under AS4419:2018 Includes percentage mass passing on 63.0 mm, 53.0 mm, 37.5 mm, 26.5 mm, 19.0 mm, 13.2 mm, 4.75 mm fractions. Note: 2 kg of sample is required to complete testing.	\$60.00	\$66.00
SS-SING-156	Permeability under AS4419:2003 Note: 2 kg of sample is required to complete testing.	\$75.00	\$82.50
SS-SING-230	Permeability under AS4419:2018 This includes 8, 16 and 32 drops. Note: 1 kg of sample is required to complete testing.	\$75.00	\$82.50
SS-SING-178	pH (1:5 water) under AS4454 Includes moisture, pH (1:5 water).	\$25.00	\$27.50
SS-SING-166	Phosphate (1:1.5 water) under AS3743/AS4419 Includes extractable phosphate.	\$30.00	\$33.00
SS-SING-033	Phosphorus - Colwell Includes Phosphorus for alkaline soils.	\$20.00	\$22.00
SS-SING-034	Phosphorus - Olsen Includes Olsen Phosphorous - a measure of the intensity of Phosphorus.	\$20.00	\$22.00
SS-SING-228	Physical Contaminants under AS4419:2018 Applies to soil types as identified by AS4419:2018. Includes contamination with glass, metal, rigid plastics, light flexible film plastics. Note: 2 kg of sample is required to complete testing.	\$40.00	\$44.00
SS-SING-190	Plant Growth Test (Bioassay) under AS3743/AS4419 Used on fresh soils and composts. Seedling emergence and relative root growth. Note: 1 kg of sample is required to complete testing.	\$50.00	\$55.00
SS-SING-164	Texture - Full under AS4419	\$25.00	\$27.50
SS-SING-227	Top Dress - Particles under AS4419:2018 Includes percentage mass retained of organics particles on 2 mm, 5 mm, 8 mm sieve. Also mass retained of mineral particles on 2 mm sieve. Note: 2 kg of sample is required to complete testing.	\$40.00	\$44.00
SS-SING-182	Wettability under AS4419	\$20.00	\$22.00

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MAIN ROAD (MRTS AND R178) TESTING

All packs have preparation and digest/extract charges included.

ITEM CODE	MRTS SOIL SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-062	MRTS16 FORM C Topsoil Testing (2014) Includes Bulk Density; Total Nitrogen (TN), Total Carbon (TC), Total Organic Carbon (TOC), Organic Matter; Wettability; pH and EC (1:5 water); Texture; Permeability; Extractable Phosphorus, Chloride; MCP Sulfur; Large Particles; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio Effective Cation Exchange Capacity; Dispersion (Emerson Class); Water Repellence Class; Slaking Class; Clouding (Dispersion) Class. Note: 4 kg of sample is required to complete testing.	\$300.00	\$330.00
SS-PACK-090	MRTS16 FORM C Topsoil Testing (2017) Includes Bulk Density; Total Nitrogen (TN), Total Carbon (TC), Total Organic Carbon (TOC), Organic Matter; Wettability; pH and EC (1:5 water); Texture; Permeability; Extractable Phosphorus, Chloride; MCP Sulfur; Large Particles; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio Effective Cation Exchange Capacity; Water Repellence Class. Note: 4 kg of sample is required to complete testing.	\$300.00	\$330.00
SS-PACK-067	MRTS16 FORM D Manufactured Site Topsoil Compliance Testing (2017) Includes Total Organic Carbon (TOC), Organic Matter; pH and EC (1:5 water); Texture; Extractable Chloride; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio, Effective Cation Exchange Capacity; Dispersion (Emerson Class); Water Repellence Class. Note: 1 kg of sample is required to complete testing.	\$190.00	\$209.00
SS-PACK-063	MRTS16 FORM E Subsoil Testing (2014) Includes Wettability; pH and EC (1:5 water); Texture; Extractable Chloride; MCP Sulfur; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio, Effective Cation Exchange Capacity; Water Repellence Class; Slaking Class; Clouding (Dispersion) Class. Note: 1 kg of sample is required to complete testing.	\$180.00	\$198.00
SS-PACK-093	MRTS16 FORM E Subsoil Testing (2017) Includes Wettability; pH and EC (1:5 water); Texture; Extractable Chloride; MCP Sulfur; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio, Effective Cation Exchange Capacity; Dispersion (Emerson Class); Water Repellence Class; Slaking Class; Clouding (Dispersion) Class. Note: 1 kg of sample is required to complete testing.	\$200.00	\$220.00
SS-PACK-072	MRTS16 FORM F Drainage Basin Soil Testing (2014) Includes Moisture Content; pH and EC (1:5 water); Extractable Chloride; MCP Sulfur; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio, Effective Cation Exchange Capacity; Dispersion (Emerson Class); Slaking Class; Clouding (Dispersion) Class. Note: 1 kg of sample is required to complete testing.	\$170.00	\$187.00
SS-PACK-097	MRTS16 FORM F Drainage Basin Soil Testing (2017) Includes Moisture Content; pH and EC (1:5 water); Extractable Chloride; MCP Sulfur; Dispersion (Emerson Class); Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio, Effective Cation Exchange Capacity; Dispersion (Emerson Class); Slaking Class; Clouding (Dispersion) Class. Note: 1 kg of sample is required to complete testing.	\$190.00	\$209.00
SS-PACK-086	MRTS16 FORM G Organic Soil Conditioner Testing (2014) Includes Bulk Density; Moisture, pH, EC; Wettability; TOC, TN, TC/TN Ratio; NO ₃ , NH ₄ , PO ₄ , NH ₄ /NO ₃ Ratio; Particle Size > 5 mm and < 16 mm; Physical Contaminants - Glass, Metal, Rigid Plastics > 2 mm, Light Plastics > 5 mm, Stones and Clay > 5 mm; Totals (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se, Cd, Pb, As, Cr, Ni, Hg, Ag); Bioassay; Plant Propagules, Nitrogen Drawdown Index, Specific Oxygen Uptake Rate, Solvita; Low Level Pesticides (Organo-chlorines, Polychlorinated Biphenyls); Salmonella, Ecoli, Faecal Coliforms; Legionella, Listeria; Asbestos. Acid Neutralising Capacity required if pH > 8.0. Note: 5 kg of sample required.	\$850.00	\$935.00
SS-PACK-100	MRTS16 FORM G Organic Soil Conditioner Testing (2017) Includes Bulk Density; Moisture, pH, EC; Wettability; TOC, TN, TC/TN Ratio; NO ₃ , NH ₄ , PO ₄ , NH ₄ /NO ₃ Ratio; Particle Size > 5 mm and < 16 mm; Physical Contaminants - Glass, Metal, Rigid Plastics > 2 mm, Light Plastics > 5 mm, Stones and Clay > 5 mm; Totals (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se, Cd, Pb, As, Cr, Ni, Hg, Ag); Bioassay; Plant Propagules, Nitrogen Drawdown Index, Specific Oxygen Uptake Rate, Solvita; Low Level Pesticides (Organo-chlorines, Polychlorinated Biphenyls); Salmonella, Ecoli, Faecal Coliforms; Legionella, Listeria; Asbestos; PFAS. Acid Neutralising Capacity required if pH > 8.0. Note: 5 kg of sample required.	\$1,050.00	\$1,155.00

ITEM CODE	MRTS WATER SUITES	PRICE excl. GST	PRICE incl. GST
SW-PACK-070	MRTS - FORM I - Non-potable Water Testing and Assessment Report Includes pH, EC; Sodium, Potassium, Calcium, Magnesium, Sulfate, Chloride, Sodium Absorption Ratio (SAR); Bicarbonate / Carbonate Alkalinity; Salmonella, Ecoli, Total Coliforms.	\$150.00	\$165.00

All packs have preparation and digest/extract charges included.

ITEM CODE	R178 SOIL SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-094	R178 FORM E1 Subsoil Testing (2014) Includes Wettability; pH and EC (1:5 water); Texture; Extractable Chloride; MCP Sulfur; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio, Effective Cation Exchange Capacity; Water Repellence Class; Slaking Class; Clouding (Dispersion) Class. Note: 1 kg of sample is required to complete testing.	\$180.00	\$198.00
SS-PACK-095	R178 FORM E1 Subsoil Testing (2017) Includes Wettability; pH and EC (1:5 water); Texture; Extractable Phosphorus, Extractable Chloride; MCP Sulfur; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio, Effective Cation Exchange Capacity; Water Repellence Class; Slaking Class; Clouding (Dispersion) Class. Note: 1 kg of sample is required to complete testing.	\$200.00	\$220.00

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ITEM CODE	R178 SOIL SUITES (Cont.)	PRICE excl. GST	PRICE incl. GST
SS-PACK-092	R178 FORM E2 Topsoil Testing - Site Won, Manufactured and Imported (2017) Includes Bulk Density; Total Nitrogen (TN), Total Carbon (TC), Total Organic Carbon (TOC), Organic Matter; Wettability; pH and EC (1:5 water); Texture; Permeability; Extractable Phosphorus, Chloride; MCP Sulfur; Large Particles; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio Effective Cation Exchange Capacity; Dispersion (Emerson Class); Water Repellence Class; Slaking Class; Clouding (Dispersion) Class. Note: 4 kg of sample is required to complete testing.	\$300.00	\$330.00
SS-PACK-091	R178 FORM E2 Topsoil Testing (2014) Includes Bulk Density; Total Nitrogen (TN), Total Carbon (TC), Total Organic Carbon (TOC), Organic Matter; Wettability; pH and EC (1:5 water); Texture; Permeability; Extractable Phosphorus, Chloride; MCP Sulfur; Large Particles; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio Effective Cation Exchange Capacity; Dispersion (Emerson Class); Water Repellence Class; Slaking Class; Clouding (Dispersion) Class. Note: 4 kg of sample is required to complete testing.	\$300.00	\$330.00
SS-PACK-099	R178 FORM E3 Drainage Basin Soil Testing (2017) Includes Moisture Content; pH and EC (1:5 water); Extractable Chloride; MCP Sulfur; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio, Effective Cation Exchange Capacity; Dispersion (Emerson Class); Slaking Class; Clouding (Dispersion) Class. Note: 1 kg of sample is required to complete testing.	\$170.00	\$187.00
SS-PACK-096	R178 FORM E3 Manufactured Site Topsoil Compliance Testing (2014) Includes Total Organic Carbon (TOC), Organic Matter; pH and EC (1:5 water); Texture; Extractable Chloride; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio, Effective Cation Exchange Capacity; Dispersion (Emerson Class); Water Repellence Class. Note: 1 kg of sample is required to complete testing.	\$190.00	\$209.00
SS-PACK-098	R178 FORM E4 Water Quality Basin Soil Testing (2014) Includes Moisture Content; pH and EC (1:5 water); Extractable Chloride; MCP Sulfur; Exchangeable Calcium, Magnesium, Sodium, Potassium, Aluminium, Calcium/Magnesium Ratio, Effective Cation Exchange Capacity; Dispersion (Emerson Class); Slaking Class; Clouding (Dispersion) Class. Note: 1 kg of sample is required to complete testing.	\$170.00	\$187.00
SS-PACK-101	R178 FORM G1 Organic Soil Conditioner Testing (2017) Includes Bulk Density; Moisture, pH, EC; Wettability; TOC, TN, TC/TN Ratio; NO ₃ , NH ₄ , PO ₄ , NH ₄ /NO ₃ Ratio; Particle Size > 5 mm and < 16 mm; Physical Contaminants - Glass, Metal, Rigid Plastics > 2 mm, Light Plastics > 5 mm, Stones and Clay > 5 mm; Totals (Ca, Mg, K, Na, S, P, Zn, Mn, Fe, Cu, B, Si, Al, Mo, Co, Se, Cd, Pb, As, Cr, Ni, Hg, Ag); Bioassay; Plant Propagules, Nitrogen Drawdown Index, Specific Oxygen Uptake Rate, Solvita; Low Level Pesticides (Organo-chlorines, Polychlorinated Biphenyls); Salmonella, Ecoli, Faecal Coliforms; Legionella, Listeria; Asbestos. Acid Neutralising Capacity required if pH > 8.0. Note: 5 kg of sample required.	\$850.00	\$935.00

All packs have preparation and digest/extract charges included.

ITEM CODE	OTHER SOIL SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-074	Exchangeable Cations - 15A1 - 1 M NH₄Cl Includes exchangeable Sodium, Potassium, Calcium, Magnesium by 1 M NH ₄ Cl at pH 7.0. No pre-treatment for soluble salts.	\$40.00	\$44.00
SS-PACK-078	Exchangeable Cations - 15B3 - 1 M NH₄Cl Includes exchangeable Sodium, Potassium, Calcium, Magnesium by 1 M NH ₄ Cl at pH 7.0. When EC is > 0.3 dS/m soluble Chloride is analysed to adjust the exchangeable sodium.	\$55.00	\$60.50
SS-PACK-027	Exchangeable Cations - 15C1 - Alcoholic 1 M NH₄Cl Includes exchangeable Sodium, Potassium, Calcium, Magnesium by Alcoholic 1 M NH ₄ Cl at pH 8.5. Ideal for soils where pH > 7.3.	\$70.00	\$77.00

Unless otherwise indicated 200 g of sample is required.

ITEM CODE	INDIVIDUAL SOIL TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-183	Bulk Density under AS4419 Lab based bulk density on landscape soils. Note: 1 kg of sample is required to complete testing.	\$20.00	\$22.00
SS-SING-177	Carbon - Organic Matter under AS4454/AS4419 Includes moisture correction, Total Organic Carbon (TOC), Organic Matter by calculation.	\$40.00	\$44.00
SS-SING-172	Chloride (1:5 water) under AS4454 Includes moisture, soluble chloride.	\$30.00	\$33.00
SS-SING-167	Dispersability under AS4419	\$40.00	\$44.00
SS-SING-025	Emerson Aggregate Test (EAT) Provides an Emerson Dispersion Class	\$45.00	\$49.50
SS-SING-184	Particles Size Grading - Large particles under AS4419:2003 Includes percentage mass retained on 10 mm, 20 mm, 50 mm and 75 mm sieve. Note: 2 kg of sample is required to complete testing.	\$40.00	\$44.00
SS-SING-226	Particles Size Grading - Large particles under AS4419:2018 Includes percentage mass retained on 2 mm, 5 mm, 20 mm sieve. Note: 2 kg of sample is required to complete testing.	\$40.00	\$44.00
SS-SING-156	Permeability under AS4419:2003 Note: 2 kg of sample is required to complete testing.	\$75.00	\$82.50
SS-SING-034	Phosphorus - Olsen Includes Olsen Phosphorous - a measure of the intensity of Phosphorus.	\$20.00	\$22.00
SS-SING-196	Slaking and Clouding - Test Methods Q161 and Q162	\$30.00	\$33.00
SS-SING-082	Sulfur - MCP	\$20.00	\$22.00
SS-SING-164	Texture - Full under AS4419	\$25.00	\$27.50

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ITEM CODE	INDIVIDUAL SOIL TESTS (Cont.)	PRICE excl. GST	PRICE incl. GST
SS-SING-197	Water repellence of soil - Test Method Q160	\$15.00	\$16.50
SS-SING-182	Wettability under AS4419	\$20.00	\$22.00

CONTAMINATION TESTING

All packs have preparation and digest/extract charges included.

ITEM CODE	CONTAMINATION SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-055	Pesticide Screen 2a - Low Level Includes Low Level Pesticide Analysis: Organo-chlorines (OC) and Polychlorinated Biphenyls (PCB).	\$120.00	\$132.00
SS-PACK-056	Pesticide Screen 2b - Low Level Includes Low Level Pesticide Analysis: Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB).	\$130.00	\$143.00
SS-PACK-118	Residue Screen - Complete Includes RS1 + RS2 (OCOP Pesticides + Synthetic Pyrethroids – 80+ Residues + Herbicide and Fungicide – 40+ Residue)	\$280.00	\$308.00
SS-PACK-119	Residue Screen - Complete + Glyphosate Includes RS1 + RS2 (OCOP Pesticides + Synthetic Pyrethroids – 80+ Residues + Herbicide and Fungicide – 40+ Residue) + Glyphosate Screens.	\$380.00	\$418.00
SS-PACK-045	Total Acid Extractable - Heavy Metals (ICPMS) Includes Lead, Cadmium, Arsenic, Nickel, Aluminium, Mercury, Chromium, Silver, Selenium.	\$50.00	\$55.00

Unless otherwise indicated 200 g of sample is required.

ITEM CODE	INDIVIDUAL CONTAMINATION TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-063	Asbestos Identification (Not Quantifiable) Identification in building material, soil, compost and dust.	\$70.00	\$77.00
SS-SING-157	Glyphosate (Round Up) + AMPA Screen	\$210.00	\$231.00
SS-SING-056	Organo-chlorines (OC) - Low Level (Detection Limit - 0.01 ppm)	\$100.00	\$110.00
SS-SING-057	Organo-phosphates (OP) - Low Level (Detection Limit - 0.01 ppm)	\$100.00	\$110.00
SS-SING-224	PFAS in ASLP leachate – standard level 28 suite with detection to 0.01 µg/L Includes the analysis of per- and poly-fluoroalkyl substances (PFAS) in ASLP (Australian Standard Leachate Procedure) leachate.	\$210.00	\$231.00
SS-SING-216	PFAS in solid – STANDARD level 28 suite with detection 0.01 mg/kg Includes the analysis of per- and poly-fluoroalkyl substances (PFAS) in soil.	\$170.00	\$187.00
SS-SING-253	PFAS in solid – LOW level 28 suite with detection 0.0008-0.0016 mg/kg Includes the analysis of per- and poly-fluoroalkyl substances (PFAS) in soil.	\$190.00	\$209.00
SS-SING-058	Polychlorinated Biphenyls (PCB) - Low Level (Detection Limit - 0.01 ppm)	\$100.00	\$110.00
SS-SING-140	Synthetic Pyrethroids	\$120.00	\$132.00

BIOLOGICAL AND MICROBIAL TESTING

All packs have preparation and digest/extract charges included.

ITEM CODE	MICROBIAL SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-141	Microbial Biomass Assessment - Compost Includes biomasses of 12 microbial groups relevant for compost quality, health and function.	\$299.00	\$328.90
SS-PACK-166	Microbial Biomass Assessment - Soil with high Organics Includes biomasses of 12 microbial groups relevant for compost quality, health and function.	\$299.00	\$328.90
SS-PACK-140	Microbial Biomass Assessment - Soil Includes biomasses of 12 microbial groups relevant for soil quality, health and function.	\$259.00	\$284.90
SS-PACK-167	MIC-01: Basic Analysis of Microbial Activity in Soil (Plate Count) 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	MIC-02: Microbial Activity in Soil (Plate Count) 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-175	Phytophthora and Pythium Note: 500 g of sample is required to complete testing.	\$220.00	\$242.00
SS-PACK-176	General Plant Pathogen Scan Does not include Phytophthora and Pythium. Note: 500 g of sample is required to complete testing.	\$350.00	\$385.00
SS-PACK-059	Pathogens Includes Moisture, Ecoli, Faecal Coliforms, Salmonella.	\$140.00	\$154.00

Unless otherwise indicated 200 g of sample is required.

ITEM CODE	INDIVIDUAL MICROBIAL TESTS	PRICE excl. GST	PRICE incl. GST
SS-SING-047	Aerobic Plate Count	\$40.00	\$44.00
SS-SING-044	E.Coli	\$40.00	\$44.00
SS-SING-043	Faecal Coliforms	\$40.00	\$44.00

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ITEM CODE	INDIVIDUAL MICROBIAL TESTS (Cont.)	PRICE excl. GST	PRICE incl. GST
SS-SING-046	Listeria	\$60.00	\$66.00
SS-SING-045	Salmonella	\$60.00	\$66.00
SS-SING-195	SOLVITA - Compost Emissions Maturity Test Includes measurement of carbon dioxide and ammonia gas released from compost due to biological activity.	\$60.00	\$66.00
SS-SING-209	SOLVITA - Soil CO₂ Burst Includes measurement of carbon dioxide released from soil due to biological activity.	\$60.00	\$66.00

BIOCHAR, FILTER MEDIA AND BIOSOLID TESTING

All packs have preparation and digest/extract charges included.

ITEM CODE	BIOCHAR SUITES	PRICE excl. GST	PRICE incl. GST
SS-PACK-163	Biochar Totals Analysis Plus 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-111	Biochar Totals Analysis 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-149	Biochar Ultimate Analysis Includes molar ratio of hydrogen to organic carbon.	\$200.00	\$220.00
SS-PACK-150	Biochar Density and Ashing Includes moisture with % ash and volatiles at 750°C.	\$70.00	\$77.00
SS-PACK-151	Biochar PCB's (< 0.2 ppm) and PAH's (< 0.4 ppm)	\$110.00	\$121.00
SS-PACK-152	Biochar VOC and SVOC Scan	\$310.00	\$341.00
SS-PACK-153	Biochar Heavy Metals Includes Pb, Cd, Hg, As, Cu, Ni, Zn and Cr.	\$80.00	\$88.00
SS-PACK-154	Biochar Dioxin / Furans (< 17 ng/kg)	\$950.00	\$1,045.00
SS-PACK-155	Biochar Particle Size Analysis - Dry Sieving Dry sieving for fractions > 2 mm, 1-2 mm, 500 µm-1 mm, 250-500 µm, 125-250 µm, 63-125 µm, < 63 µm.	\$90.00	\$99.00
SS-PACK-156	Biochar Surface Area (Total and External)	\$300.00	\$330.00

Unless otherwise indicated 200 g of sample is required.

ITEM CODE	BIORETENTION FILTER MEDIA SUITES AND INDIVIDUAL TESTS	PRICE excl. GST	PRICE incl. GST
SS-PACK-160	Bioretention Filter Media Analysis (FMSBS 2015) Includes Moisture, pH, EC; Total Organic Carbon, Total Nitrogen, Organic Matter; Phosphate; Dry Sieving > 2.0 mm, 1-2 mm, 0.5-1 mm, 0.25-0.5 mm, 0.15-0.25 mm, 0.05-0.15 mm, < 0.05 mm; Bridging Criteria; Hydraulic Conductivity. Note: 3 kg of sample is required to complete testing.	\$300.00	\$330.00
SS-PACK-171	Bioretention Transition Layer Analysis (FMSBS 2015) Includes Dry Sieving > 2.0 mm, 1-2 mm, 0.5-1 mm, 0.25-0.5 mm, 0.15-0.25 mm, 0.05-0.15 mm, < 0.05 mm; Bridging Criteria; Hydraulic Conductivity. Note: 3 kg of sample is required to complete testing.	\$170.00	\$187.00
SS-PACK-172	Bioretention Drainage Layer Analysis (FMSBS 2015) Includes Dry Sieving > 5.0 mm, 3.4-5.0 mm, 2.0-3.4 mm, 1-2 mm, 0.5-1 mm, 0.25-0.5 mm, 0.15-0.25 mm, 0.05-0.15 mm, < 0.05 mm; Bridging Criteria; Hydraulic Conductivity. Note: 3 kg of sample is required to complete testing.	\$150.00	\$165.00
SS-SING-231	Saturated Hydraulic Conductivity under ASTM F1815 - 11 Note: 1 kg of sample is required to complete testing.	\$75.00	\$82.50
SS-SING-254	Particle Size Analysis - Dry Sieving (FMSBS 2015) Dry sieving for fractions > 2.0 mm, 1-2 mm, 0.5-1 mm, 0.25-0.5 mm, 0.15-0.25 mm, 0.05-0.15 mm, < 0.05 mm.	\$75.00	\$82.50

All packs have preparation and digest/extract charges included.

ITEM CODE	BIOSOLIDS SUITES	PRICE excl. GST	PRICE incl. GST
BS-PACK-001	Contaminated Grade Assessment Includes Total Dry Solids Concentration, Metals Analysis Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Zinc; Low Level (Organo-chlorines Pesticides (OC), Polychlorinated biphenyls (PCB)).	\$230.00	\$253.00
BS-PACK-004	Enteric Viruses Determination Includes Reovirus, Enterovirus, Adenovirus (viruses per 10 g).	\$420.00	\$462.00
BS-PACK-006	Enteric Viruses Determination plus Helminth Ova Includes Reovirus, Enterovirus, Adenovirus (viruses per 10 g) plus Helminth Ova.	\$500.00	\$550.00
BS-PACK-002	Nutrient Determination Includes Total Nitrogen (TN), Total Kjeldahl Nitrogen (TKN) (calculation), Ammonium, Nitrate.	\$60.00	\$66.00
BS-PACK-005	SOUR Test Includes Moisture, Volatile Solids Concentration, Specific Oxygen Uptake Rate (SOUR) with an incubation of 20°C.	\$100.00	\$110.00
BS-PACK-003	Stabilisation Confirmation Includes Moisture, Microbial Assessment (E.Coli, Faecal Coliforms, and Salmonella sp.), Volatile Solids Concentration, Specific Oxygen Uptake Rate (SOUR).	\$200.00	\$220.00

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.