

Contamination assessment price list

Edition 17.1.1



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

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ANALYTICAL SERVICES

Environmental Analysis Laboratory (EAL)

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

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

Important Notes on Charges, Turnaround Times and Results

The following points apply to sample analysis:

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

Confidentiality and Quality Assurance

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

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

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

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

Instructions for Submitting Samples

Sample Collection and Preservation for Liquid Samples

- **Minimum of 500 ml required** (a plastic water bottle thoroughly rinsed with water sample is suitable)
- Download EAL Water Preservation Sampling Guide on the EAL website for suggestions www.scu.edu.au/eal
- Site name, and date of sampling, needs to be on the bottle

Sample Collection and Preservation for Contamination Soil Assessment Samples

- **Minimum of 200 g required** (half a plastic lunch bag is most suitable and a separate 125 ml or 250 ml glass jar filled with sample)
- Collect a representative soil sample - surface 0-10 cm below grass or surface layer typically collected
- Compositing (mixing) of up to 4 samples is typically considered acceptable to save on costs; note on COC if EAL is required to composite samples

Complete EAL Chain of Custody (COC)

- Download COC from the EAL website www.scu.edu.au/eal
- Complete all relevant details on COC
- Cheque, EFT and credit card are the preferred methods of payment
- Use Test Codes from the Price List e.g. SS-PACK-005

Package and Send Samples

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

COURIER ADDRESS:

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

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

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

POSTAL ADDRESS:

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

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

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

Contact Details

Laboratory Position	Contact	Phone / Fax	Email
Administration	Reception	02 6620 3678 / 02 6620 3957	eal@scu.edu.au
Laboratory Manager/Director	Graham Lancaster	0419 984 088	graham.lancaster@scu.edu.au
Waters Co-ordinator	Jacob Daley	0437 016 018	jacob.daley@scu.edu.au
Soils Co-ordinator	Kris Saville	0437 016 017	kris.saville@scu.edu.au

CONTAMINATION ASSESSMENT

DISCOUNTED TESTING PACKS

All packs have preparation and digest/extract charge included

ITEM CODE	WATER ASSESSMENT (PACKS)	PRICE excl. GST	PRICE incl. GST
SW-PACK-030	Basic Metals Scan - Total Recoverable (digested with nitric acid) (ICPMS) Includes Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc.	\$65.00	\$71.50
SW-PACK-018	Effluent Monitoring Includes pH, Total Suspended Solids (TSS); Biochemical Oxygen Demand (BOD); Total Oils and Grease (TOG); Total Nitrogen (TN), Total Phosphorus (TP); Nitrate, Nitrite, Phosphate, Ammonium; Faecal Coliforms.	\$170.00	\$187.00
SW-PACK-058	Gas Contamination Monitoring for Dissolved Gases Includes Acetylene, Butane, Ethane, Ethene, Methane and Propane.	\$140.00	\$154.00
SW-PACK-056	Gas Contamination Water Quality Monitoring Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Total Alkalinity, Total Suspended Solids (TSS); Total Petroleum Hydrocarbons (TPH C10-C40), BTEX (Equivalent TPH C6-C10); Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc.	\$160.00	\$176.00
SW-PACK-029	Metals Basic Scan - Total Available / Acid Soluble (acidified) Includes Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc.	\$60.00	\$66.00
SW-PACK-045	Metals Extra Scan - Total Available / Acid Soluble (acidified) Includes Antimony, Barium, Beryllium, Bismuth, Boron, Bromide, Cobalt, Lithium, Molybdenum, Silicon, Strontium, Thallium, Thorium, Uranium and Vanadium.	\$60.00	\$66.00
SW-PACK-009	Pesticide Screen 1a Includes Organo-chlorines (OC), Organo-phosphates (OP).	\$70.00	\$77.00
SW-PACK-010	Pesticide Screen 1b Includes Organo-chlorines (OC), Organo-phosphates (OP) and Polychlorinated biphenyls (PCB).	\$90.00	\$99.00
SW-PACK-024	Pesticide Screen 2a - Low Level Includes Low Level Pesticide Analysis: Organo-chlorines (OC) and Organo-phosphates (OP).	\$170.00	\$187.00
SW-PACK-027	Pesticide Screen 2b - Low Level Includes Low Level Pesticide Analysis: Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB).	\$180.00	\$198.00
SW-PACK-059	Pesticide Screen 3 - In Oil Includes Organo-chlorines (OC), Organo-phosphates (OP). Note: 25 mL required	\$150.00	\$165.00
SW-PACK-042	Petroleum Hydrocarbons Includes Total Petroleum Hydrocarbons (TPH C10-C40), BTEX (Equivalent TPH C6-C10).	\$80.00	\$88.00
SW-PACK-060	Saline Water Metals (Low Level) >20mS/cm (As Supplied) (ICPMS) Includes Basic (Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc); Extra (Barium, Beryllium, Bismuth, Cobalt, Molybdenum, Thallium, Uranium and Vanadium).	\$80.00	\$88.00

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All packs have preparation and digest/extract charge included

ITEM CODE	WATER ASSESSMENT (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SW-PACK-051	Special - Metals and Salts Combo - As Supplied (ICPMS) Includes Basic (Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc); Extra (Antimony, Barium, Beryllium, Bismuth, Boron, Bromide, Cobalt, Lithium, Molybdenum, Silicon, Strontium, Thallium, Thorium, Uranium and Vanadium) and Salts (Calcium, Chloride, Magnesium, Potassium, Sodium and Sulfur).	\$110.00	\$121.00
SW-PACK-069	Speciated Antimony Includes toxic antimony species SbIII determination using HPLC-ICPMS (Total Antimony analysis also included to determine SbV) 1% of volume HCl preservation in PP (Preservation to be confirmed)	\$350.00	\$385.00
SW-PACK-067	Speciated Arsenic Includes toxic arsenic species AsV determination using HPLC-ICPMS (Total Arsenic analysis also included to determine As III) 1% of volume HCl preservation in PP	\$350.00	\$385.00
SW-PACK-068	Speciated Chromium Includes toxic hexavalent chromium species CrVI determination using HPLC-ICPMS (Total Chromium analysis also included to determine Cr III) 1M NaOH preservation (approx.. 3 drops/30ml to adjust pH to 8-9.5) in PP	\$350.00	\$385.00
SW-PACK-066	Speciated Mercury Includes toxic mercury species Methyl Mercury determination using HPLC-ICPMS (Total Mercury analysis also included to determine HgII) 1% of volume HCl preservation in glass jar	\$350.00	\$385.00
SW-PACK-015	Wastewater Monitoring Includes pH, Total Suspended Solids (TSS); Biochemical Oxygen Demand (BOD); Total Oils and Grease (TOG).	\$85.00	\$93.50

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ITEM CODE	SOIL ASSESSMENT (PACKS)	PRICE excl. GST	PRICE incl. GST
SS-PACK-015	Aggressivity Assessment Includes moisture, basic texture, pH, EC, Resistivity (calculation), Soluble Chloride, Sulfate.	\$70.00	\$77.00
SS-PACK-053	Concrete Quality Analysis Includes Chloride and Sulfate.	\$80.00	\$88.00
SS-PACK-005	Contaminated Site Assessment 1a Includes Basic Texture; Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury, Boron, Cobalt, Beryllium; Pesticides (Organo-chlorines (OC), Organo-phosphates (OP)).	\$130.00	\$143.00
SS-PACK-006	Contaminated Site Assessment 1b Includes Basic Texture; Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury, Boron, Cobalt, Beryllium; Pesticides (Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB)).	\$150.00	\$165.00
SS-PACK-007	Contaminated Site Assessment 2 Includes Basic Texture; Arsenic, Lead; Pesticides (Organo-chlorines (OC), Organo-phosphates (OP)).	\$100.00	\$110.00
SS-PACK-008	Contaminated Site Assessment 3 Includes Basic Texture; Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury, Boron, Cobalt, Beryllium; Pesticides (Organo-chlorines (OC)).	\$120.00	\$132.00
SS-PACK-051	Excavated Natural Material (ENM) Classification 2014 Includes pH, EC (water 1:5); Foreign Material; Copper, Lead, Cadmium, Zinc, Arsenic, Chromium, Nickel, Mercury; Polycyclic Aromatic Hydrocarbons (PAH); Total Petroleum Hydrocarbons (C10-C40), BTEX (C6-C10).	\$260.00	\$286.00

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ITEM CODE	SOIL ASSESSMENT (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-PACK-042	Health Investigation Level (HIL) Soil Assessment Includes Copper, Lead, Cadmium, Zinc, Arsenic, Chromium, Nickel, Mercury, Beryllium, Boron, Cobalt; Polycyclic Aromatic Hydrocarbons (PAH), Total Petroleum Hydrocarbons (TPH), BTEX Hydrocarbons; Pesticides (Organo-chlorines (OC)); Total Phenols; Total Cyanide.	\$350.00	\$385.00
SS-PACK-004	Metals Basic Scan - Total Acid Extractable Includes Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc.	\$70.00	\$77.00
SS-PACK-043	Metals Extra Scan - Total Acid Extractable Includes Antimony, Barium, Beryllium, Bismuth, Boron, Cobalt, Lithium, Molybdenum, Silicon, Strontium, Thallium, Thorium, Uranium and Vanadium.	\$70.00	\$77.00
SS-PACK-045	Metals Heavy Scan - Total Acid Extractable Includes Lead, Cadmium, Arsenic, Nickel, Aluminium, Mercury, Chromium, Silver, Selenium.	\$50.00	\$55.00
SS-PACK-032	Metals Specific - TCLP Extractable Includes Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury.	\$90.00	\$99.00
SS-PACK-019	Nutrients - KCl Extractable Includes Nitrate, Phosphate, Ammonium.	\$50.00	\$55.00
SS-PACK-013	Pesticide Screen 1a Includes Organo-chlorines (OC), Organo-phosphates (OP).	\$80.00	\$88.00
SS-PACK-014	Pesticide Screen 1b Includes Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB).	\$100.00	\$110.00
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-017	Petroleum Compounds Assessment 1a Includes Total Petroleum Hydrocarbons (TPHC10-C40), BTEX (equivalent to TPHC6- C10).	\$90.00	\$99.00
SS-PACK-018	Petroleum Compounds Assessment 1b (Total and Speciated) Includes Total Petroleum Hydrocarbons (TPHC10-C40), BTEX (equivalent to TPHC6- C10), Speciated Total Petroleum Hydrocarbons (aromatic and aliphatic).	\$280.00	\$308.00
SS-PACK-010	pH and EC Includes soil pH and EC (1:5 water).	\$30.00	\$33.00
SS-PACK-023	Recovered Aggregate Exemption 2014 Includes EC; Mercury, Cadmium, Lead, Arsenic, Chromium, Copper, Nickel, Zinc; Fraction % (metal, plaster, rubber, plastic, paper, cloth, paint, wood, other vegetable matter).	\$110.00	\$121.00
SS-PACK-065	Recovered Fines Order EPA 2014 Testing Includes pH, EC (water 1:5); Foreign Material; Particle Size; Total Organic Carbon; Copper, Lead, Cadmium, Zinc, Arsenic, Chromium, Nickel, Mercury; Polycyclic Aromatic Hydrocarbons (PAH); Total Petroleum Hydrocarbons (C10-C36), BTEX (C6-C9); Organochlorine Pesticides; Polychlorinated Biphenyls.	\$500.00	\$550.00
SS-PACK-071	Speciated Antimony Includes toxic antimony species SbIII determination using HPLC-ICPMS (Total Antimony analysis also included to determine SbV)	\$400.00	\$440.00
SS-PACK-069	Speciated Arsenic Includes toxic arsenic species AsV determination using HPLC-ICPMS (Total Arsenic analysis also included to determine As III)	\$400.00	\$440.00

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ITEM CODE	SOIL ASSESSMENT (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-PACK-070	Speciated Chromium Includes toxic hexavalent chromium species CrVI determination using HPLC-ICPMS (Total Chromium analysis also included to determine Cr III)	\$400.00	\$440.00
SS-PACK-068	Speciated Mercury Includes toxic mercury species Methyl Mercury determination using HPLC-ICPMS (Total Mercury analysis also included to determine HgII)	\$400.00	\$440.00
SS-PACK-066	The Recovered Glass Sand Order 2014 Includes EC; Total Organic Carbon; Mercury, Cadmium, Lead, Arsenic, Chromium, Copper, Nickel, Zinc, Molybdenum; Fraction % (Paster, clay lumps and other friable materials. Rubber, plastic, bitumen, paper, cloth, paint, wood and other vegetation matter).	\$135.00	\$148.50
SS-PACK-080	Treated Drilling Mud Exemption 2014 Includes pH, EC (water 1:5); Copper, Lead, Cadmium, Zinc, Arsenic, Chromium, Nickel, Mercury; Polycyclic Aromatic Hydrocarbons (PAH); Total Petroleum Hydrocarbons (C10-C36), BTEX (C6-C9), Total Chlorinated Hydrocarbons (TCH).	\$280.00	\$308.00

SINGLES TESTING

ITEM CODE	PREPARATION (WATER SAMPLES)	PRICE excl. GST	PRICE incl. GST
SW-PREP-003	Filtered/ Dissolved Metals Immediate filtration through 0.45 µm filter followed by acidification with Nitric acid. It is particularly important where waters are high in suspended clay matter, where Iron and Aluminium may be present.	\$5.00	\$5.50
SW-PREP-006	Saline Waters Instrument Setup (per batch)	\$100.00	\$110.00
SW-PREP-002	Total Available / Acid Soluble Metals Acidification with Nitric acid. Used on nearly all environmental waters, acid sulfate waters, groundwater and surfacewaters (According to ANZECC guidelines). Also used for clean waters, drinking waters, when acidified in the field and when requested.	\$5.00	\$5.50
SW-PREP-001	Total Recoverable Metals Nitric Acid digest. Used on high sludge/solid waters, liquid fertilisers and when requested.	\$15.00	\$16.50

ITEM CODE	PREPARATION (SOIL SAMPLES)	PRICE excl. GST	PRICE incl. GST
SS-PREP-002	Hotblock Digest Includes total Aqua-Regia or Nitric Acid digestion of solid samples.	\$10.00	\$11.00
SS-PREP-001	Sample Preparation Includes drying and ring mill grinding.	\$10.00	\$11.00
SS-PREP-005	TCLP Extractions Toxicity Characteristic Leaching Procedure.	\$45.00	\$49.50

Sample Preparation may be required unless a Discounted Testing Pack is selected

ITEM CODE	WATER ASSESSMENT (SINGLES)	PRICE excl. GST	PRICE incl. GST
SW-SING-012	Biochemical Oxygen Demand (BOD) - Total	\$45.00	\$49.50
SW-SING-013	Chemical Oxygen Demand (COD)	\$45.00	\$49.50
SW-SING-030	Chromium VI - Hexavalent	\$36.00	\$39.60
SW-SING-056	Conductivity - Electrical	\$10.00	\$11.00
SW-SING-029	Cyanide - Total	\$50.00	\$55.00
SW-SING-104	General Metals - Total Available / Acid Soluble Aluminium, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Bromide, Cadmium, Calcium, Chloride, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silicon, Silver, Sodium, Sulfur, Vanadium or Zinc.	\$10.00	\$11.00
SW-SING-116	Glyphosate (Round Up)	\$220.00	\$242.00
SW-SING-098	Herbicides Phenoxy Acid	\$170.00	\$187.00
SW-SING-062	Hydrocarbons - BTEX (Equivalent to TPH C6-C10)	\$50.00	\$55.00
SW-SING-008	Hydrocarbons - Polycyclic Aromatic Hydrocarbons (PAH)	\$65.00	\$71.50
SW-SING-063	Hydrocarbons - Total Petroleum (TPH C10-C40)	\$50.00	\$55.00
SW-SING-112	Methane	\$110.00	\$121.00
SW-SING-108	Non-Standard Metals - Total Available/Acid Soluble Cerium, Dysprosium, Erbium, Europium, Gadolinium, Gallium, Gold, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Rubidium, Samarium, Scandium, Terbium, Thulium, Tin, Titanium, Tungsten, Ytterbium or Yttrium.	\$15.00	\$16.50
SW-SING-064	Organo-chlorines (OC)	\$65.00	\$71.50
SW-SING-113	Organo-chlorines (OC) - In Oil Note: 25 mL required	\$120.00	\$132.00

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Sample Preparation may be required unless a Discounted Testing Pack is selected

ITEM CODE	WATER ASSESSMENT (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SW-SING-096	Organo-chlorines (OC) - Low Level	\$160.00	\$176.00
SW-SING-065	Organo-phosphates (OP)	\$65.00	\$71.50
SW-SING-114	Organo-phosphates (OP) - In Oil Note: 25 mL required	\$120.00	\$132.00
SW-SING-097	Organo-phosphates (OP) - Low Level	\$160.00	\$176.00
SW-SING-117	Organotins (MBT, TBT, DBT)	\$260.00	\$286.00
SW-SING-058	Oxygen - Dissolved (DO)	\$10.00	\$11.00
SW-SING-055	pH	\$10.00	\$11.00
SW-SING-038	Phenol - Total	\$60.00	\$66.00
SW-SING-026	Phenolics - Speciated Phenols	\$90.00	\$99.00
SW-SING-066	Polychlorinated Biphenyls (PCB)	\$65.00	\$71.50
SW-SING-099	Polychlorinated Biphenyls (PCB) - Low Level	\$160.00	\$176.00
SW-SING-057	Salinity	\$10.00	\$11.00
SW-SING-111	Semi-Volatile Organic Compounds (SVOC) SVOC includes Phenols.	\$260.00	\$286.00
SW-SING-011	Total Oils and Grease (TOG) - Hexane extractable	\$50.00	\$55.00
SW-SING-003	Total Suspended Solids (TSS)	\$20.00	\$22.00
SW-SING-037	Trihalomethanes (THM)	\$60.00	\$66.00
SW-SING-095	Volatile Halogenated Compounds (VHC)	\$90.00	\$99.00
SW-SING-094	Volatile Organic Compounds (VOC) VOC includes BTEX.	\$115.00	\$126.50

Sample Preparation may be required unless a Discounted Testing Pack is selected

ITEM CODE	SOIL ASSESSMENT (SINGLES)	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-161	Asbestos Identification and Quantification in Soil Identification and quantification in soil (using AS4964-2004 or WA/NEPM) (% ACM, % Friable).	\$80.00	\$88.00
SS-SING-162	Chromium VI - Hexavalent	\$36.00	\$39.60
SS-SING-127	Contamination Foreign Material Fraction Percentage Includes Fraction % (metal, plaster, rubber, plastic, paper, cloth, paint, wood, other vegetable matter).	\$30.00	\$33.00
SS-SING-153	Cyanide - Free	\$45.00	\$49.50
SS-SING-148	Cyanide - Total	\$60.00	\$66.00
SS-SING-147	Fluoride - Total by fusion	\$70.00	\$77.00
SS-SING-132	General Metals - Total Acid Extractable ICPMS Aluminium, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silicon, Silver, Sodium, Strontium, Sulfur, Thallium, Thorium, Uranium, Vanadium or Zinc.	\$10.00	\$11.00
SS-SING-157	Glyphosate (Round Up)	\$220.00	\$242.00
SS-SING-158	Herbicides Phenoxy Acid	\$200.00	\$220.00
SS-SING-051	Hydrocarbons - BTEX - equivalent to TPH(C6-C10)	\$50.00	\$55.00
SS-SING-020	Hydrocarbons - Polycyclic Aromatic (PAH)	\$65.00	\$71.50

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Sample Preparation may be required unless a Discounted Testing Pack is selected

ITEM CODE	SOIL ASSESSMENT (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-SING-115	Hydrocarbons - Stable Isotopes Hydrocarbons (C1-C5). Cost per analyte.	\$40.00	\$44.00
SS-SING-023	Hydrocarbons - Total Petroleum - Speciated Includes Speciated TPH (aromatic or aliphatic).	\$200.00	\$220.00
SS-SING-052	Hydrocarbons - Total Petroleum - TPH (C10-C40)	\$50.00	\$55.00
SS-SING-024	Metals Specific - TCLP Extractable Copper, Lead, Cadmium, Zinc, Arsenic, Iron, Manganese, Silver, Chromium, Nickel, Aluminium or Mercury.	\$15.00	\$16.50
SS-SING-133	Non-Standard Metals - Total Acid Extractable ICPMS Cerium, Dysprosium, Erbium, Europium, Gadolinium, Gallium, Gold, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Rubidium, Samarium, Scandium, Terbium, Thulium, Tin, Titanium, Tungsten, Ytterbium or Yttrium.	\$15.00	\$16.50
SS-SING-053	Organo-chlorines (OC) (Detection Limit - 0.1 ppm)	\$65.00	\$71.50
SS-SING-056	Organo-chlorines (OC) - Low Level (Detection Limit - 0.01 ppm)	\$100.00	\$110.00
SS-SING-054	Organo-phosphates (OP) (Detection Limit - 0.1 ppm)	\$65.00	\$71.50
SS-SING-057	Organo-phosphates (OP) - Low Level (Detection Limit - 0.01 ppm)	\$100.00	\$110.00
SS-SING-159	Organotins (MBT, TBT, DBT)	\$260.00	\$286.00
SS-SING-070	Paint Analysis for Lead	\$30.00	\$33.00
SS-SING-065	pH (1:5 H2O)	\$14.00	\$15.40
SS-SING-142	Phenol - Total	\$60.00	\$66.00
SS-SING-029	Phenolics - speciated phenols	\$90.00	\$99.00
SS-SING-055	Polychlorinated Biphenyls (PCB) (Detection Limit - 0.1 ppm)	\$65.00	\$71.50
SS-SING-058	Polychlorinated Biphenyls (PCB) - Low Level (Detection Limit - 0.01 ppm)	\$100.00	\$110.00
SS-SING-028	Scanning Electron Microscopy (SEM) - Sample Feasibility Assessment Includes sample preparation and instrument setup. A quote is provided following Sample Feasibility Assessment.	\$200.00	\$220.00
SS-SING-140	Synthetic Pyrethroids	\$120.00	\$132.00
SS-SING-126	Volatile Halogenated Compounds (VHC)	\$80.00	\$88.00
SS-SING-026	Volatile Organic Compounds (VOC)	\$115.00	\$126.50



NATA ACCREDITED TESTS (Lab Acc. No. 14960)

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



ASPAC TESTS (for Plant and Soil)

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

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