



# National Association of Testing Authorities, Australia SCOPE OF ACCREDITATION

## Environmental Analysis Laboratory Division of Research, Southern Cross University SOUTHERN CROSS UNIVERSITY | Accreditation Number: 14960 | Site Number: 15180 |

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**Availability:** Services available to external clients

Note: Not all of the columns of the scope of accreditation displayed include data.

The only data displayed is that deemed relevant and necessary for the clear description of the activities and services covered by the scope of accreditation.

Grey text appearing in a SoA is additional freetext providing further refinement or information on the data in the preceding line entry.

### ISO/IEC 17025 (2017) Agribusiness

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis of physical and nutritional characteristics	Plant material; Soils;	Carbon - Total; Nitrogen; Sulfur;	Dumas	In-house S4a	
	Soils	Carbon - Total organic (TOC)	Dumas	In-house S15b	
		Acid neutralising capacity (ANC)	Titration	In-house S14	
		Calcium - Exchangeable; Effective cation exchange capacity (ECEC); Magnesium - Exchangeable; Potassium - Exchangeable; Sodium - Exchangeable;	ICP-AES	Rayment and Lyons 15D3 and in-house S9C	
		Sulfur -	Titration	In-house S20	



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		Chromium reducible			
		Conductivity	Direct reading instrument	Rayment and Lyons 3A1 and in-house S1	
		pH	Ion selective electrode (ISE)	Rayment and Lyons 4A1 and in-house S1	
		Micronutrients - DTPA extractable copper; Micronutrients - DTPA extractable iron; Micronutrients - DTPA extractable manganese; Micronutrients - DTPA extractable zinc;	ICP-AES	Rayment and Lyons 12A1 and in-house S8	
		Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Calcium; Chromium; Cobalt; Copper; Iron; Lead; Lithium; Magnesium; Manganese; Mercury; Molybdenum; Nickel; Phosphorus; Potassium; Selenium; Silver; Sodium; Strontium; Thallium; Thorium; Tin; Uranium; Vanadium; Zinc;	ICP-MS	APHA 3125 and in-house W32	

**ISO/IEC 17025 (2017)**  
**Environment**



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SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis for elements	Saline waters	Aluminium; Arsenic; Barium; Beryllium; Bismuth; Cadmium; Chromium; Cobalt; Copper; Iron; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Silver; Thallium; Uranium; Vanadium; Zinc;	ICP-MS	APHA 3125 and in-house W32a	
	Ground waters; Irrigation and stock waters; Sewage; Trade wastes;	Aluminium; Antimony; 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; Tin; Uranium; Vanadium; Zinc;	ICP-MS	APHA 3125 and in-house W32	
	Sediments; Soils;	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Cadmium; Calcium; Chromium; Cobalt; Copper; Iron; Lead; Lithium; Magnesium; Manganese; Mercury;	ICP-MS	APHA 3125 and in-house W32	



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		Molybdenum; Nickel; Phosphorus; Potassium; Selenium; Silver; Sodium; Strontium; Sulfur; Thallium; Thorium; Tin; Uranium; Vanadium; Zinc;			
Analysis for nutrients	Ground waters; Irrigation and stock waters; Saline waters; Sewage;	Phosphorus - Ortho	Flow injection analyser (FIA)	APHA 4500P-G and in-house W8	
		Nitrogen - Nitrate	Flow injection analyser (FIA)	APHA 4500NO <sub>3</sub> -F and in-house W7	
		Nitrogen - Ammonia	Flow injection analyser (FIA)	APHA 4500NH <sub>3</sub> -H and in-house W9	
		Nitrogen - Nitrite	Flow injection analyser (FIA)	APHA 4500NO <sub>3</sub> -I and in-house W6	
	Ground waters; Irrigation and stock waters; Sewage; Treated effluent;	Nitrogen - Total; Phosphorus - Total;	Flow injection analyser (FIA)	APHA 4500P-J and in-house W4	
Analysis for physical and chemical characteristics	Ground waters; Saline waters; Sewage;	Biochemical oxygen demand (BOD)	Dissolved oxygen (DO) analyser	APHA 5210B and in-house W26	
	Ground waters; Sewage; Trade wastes;	Oil and grease	Gravimetric	APHA 5520D and in-house W28a	
	Ground waters; Irrigation and stock waters; Saline waters; Sewage;	Conductivity	Direct reading instrument	APHA 2510B and in-house W31	
	Ground waters; Irrigation and stock waters;	Turbidity	Turbidimeter	In-house W1	



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	Saline waters; Sewage; Trade wastes;				
		Solids - Suspended	Gravimetric	APHA 2540D and in-house W25	
		pH	Ion selective electrode (ISE)	APHA 4500H <sup>+</sup> and in-house W31	
	Ground waters; Irrigation and stock waters; Sewage; Trade wastes;	Chloride	ICP-MS	In-house W33	
	Soils	Carbon - Organic	Dumas	In-house S15b	
	Sediments; Soils;	Acid neutralising capacity (ANC)	Titration	In-house S14	
		Carbon - Total; Nitrogen; Sulfur;	Dumas	In-house S4a	
		Acid producing potential of acid sulfate	Ion selective electrode (ISE)	In-house S21	
		Conductivity	Direct reading instrument	Rayment and Lyons 3A1 and in-house S1	
		pH	Ion selective electrode (ISE)	Rayment and Lyons 4A1 and in-house S1	
		Sulfur - Chromium reducible	Titration	In-house S20	
		Acidity - Total actual	Titration	In-house S16B	

**ISO/IEC 17025 (2017)  
Food and Beverage**

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis for elements	Waters for potable and domestic purposes	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron;	ICP-MS	APHA 3125 and in- house W32	



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		Cadmium; Calcium; Chromium; Cobalt; Copper; Iron; Lead; Lithium; Magnesium; Manganese; Mercury; Molybdenum; Nickel; Phosphorus; Potassium; Selenium; Silver; Sodium; Strontium; Sulfur; Thallium; Thorium; Tin; Uranium; Vanadium; Zinc;			
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Nitrate	Flow injection analyser (FIA)	APHA 4500NO <sub>3</sub> <sup>-</sup> -F and in-house W7	
		pH	Ion selective electrode (ISE)	APHA 4500H <sup>+</sup> and in-house W31	
		Nitrogen - Ammonia	Flow injection analyser (FIA)	APHA 4500NH <sub>3</sub> -H and in-house W9	
		Conductivity	Direct reading instrument	APHA 2510B and in-house W31	
		Chloride	ICP-MS	In-house W33	
		Phosphorus - Ortho	Flow injection analyser (FIA)	APHA 4500P-G and in-house W8	
		Solids - Suspended	Gravimetric	APHA 2540D and in-house W25	
		Turbidity	Turbidimeter	In-house W1	
		Nitrogen - Nitrite	Flow injection analyser (FIA)	APHA 4500NO <sub>3</sub> <sup>-</sup> -I and in-house W6	
		Nitrogen - Total; Phosphorus - Total;	Flow injection analyser (FIA)	in-house W4	



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ISO/IEC 17025 (2017)  
Materials

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Chemical analysis of polymers and related materials	Paints and related coating materials	Lead	ICP-AES	In-house S38	

| Accreditation Number: 14960 | Site Number: 15180 | Printed on : 03-Mar-2020

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