

Schedule of Accreditation



Organisation Name	Southern Scientific Services
Trading As	
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Accreditation Standard	ISO 17025 T
Date Initially Awarded	22/04/2008
Scope Classification	Biological and veterinary testing
Scope Classification	Chemical testing

Services available to the public¹

¹ Refer to document on interpreting INAB Scopes of Accreditation

Sites from which accredited services are delivered		
(the detail of the accredited services delivered at each site are on the Scope of Accreditation)		
	Name	Address
1	Southern Scientific Services	Dunrine , Killarney, Kerry
2	Head Office	Unit 4, 4Park Business Centre, , Farranfore, Kerry

Scope of Accreditation

Head Office

Biological and Veterinary Testing

Category: A

Biology/veterinary field - Tests	Test name	Technique	Matrix	Equipment	Std. reference	
803 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring for growth - .01 Culture of bacteria	Enumeration of Coagulase Positive Staphylococci - Colony Count Technique	Colony Count technique	Fish, Shellfish and molluscs, Prepared Dishes	N/A	ISO 6888-2:1999-Part 2 / SMP 063	
	Enumeration of coliforms and E. coli by the colilert method	Colilert	Waters - potable waters, Swimming pools and spas, Environmental water, Waste water treatment plant effluent (WWTP effluent), Other waters - Marine waters - Waste Waters - Effluents	fluorescence cabinet; colilert vessels; quantitrays	ISO 9308-2:2012 / SMP 019	
	Enumeration of E. coli by the Multiple Tube Method	Multiple Tube Technique	Fish, Shellfish and molluscs	N/A	ISO/TS 16649-3:2015 & CEFAS standard operating procedure, issue No. 4: 15105103 / SMP 018	
	Enumeration of Enterococci by the Enterolert method	Enterolert DW / MPN	Waters - potable waters	fluorescence cabinet; colilert vessels; quantitrays	Microbiology of drinking water (2012) Part 5& Idexx Enterolert protocol. SMP 068	
	Horizontal Method for the detection of Listeria monocytogenes	Enrichment/Selective Media	Fish, Shellfish and molluscs, Prepared Dishes	N/A	ISO 11290-1:2017 / SMP 095	
	Horizontal Method for the detection of salmonella spp	Presence/Absence Test	Fish, Shellfish and molluscs, Prepared Dishes	N/A	ISO 6579-1:2017 / SMP 094	
	Horizontal Method for the enumeration of Listeria monocytogenes	Colony Count technique	Fish, Shellfish and molluscs, Prepared Dishes	N/A	ISO 11290-2:2017 / SMP 096	

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
756 Drugs and pharmaceuticals - .03 Chemicals used in compounding pharmaceuticals	Elemental analysis in Pharmaceutical Preparations by ICP-MS	Arsenic	1.0-1000 µg/g	Solids - Antibiotics, Enzymes, Hormoes, Medicinal and vererinary preparations, Vacines and sera, Vitamins	ICP-MS	USP 233 (2013) & USP 38 / SCP 059
			1.0-1000 µg/L	Liquids - Antibiotics, Enzymes, Hormoes, Medicinal and vererinary preparations, Vacines and sera, Vitamins	ICP-MS	USP 233 (2013) & USP 38 / SCP 059
		Cadmium	0.04-1000 µg/g	Solids - Antibiotics, Enzymes, Hormoes, Medicinal and vererinary preparations, Vacines and sera, Vitamins	ICP-MS	USP 233 (2013) & USP 38 / SCP 059
			0.45-1000 µg/L	Liquids - Antibiotics, Enzymes, Hormoes, Medicinal and vererinary preparations, Vacines and sera, Vitamins	ICP-MS	USP 233 (2013) & USP 38 / SCP 059
		Lead	0.07-1000 µg/g	Solids - Antibiotics, Enzymes, Hormoes, Medicinal and vererinary preparations, Vacines and sera, Vitamins	ICP-MS	USP 233 (2013) & USP 38 / SCP 059
			1.0-1000 µg/L	Liquids - Antibiotics, Enzymes, Hormoes, Medicinal and vererinary preparations, Vacines and sera, Vitamins	ICP-MS	USP 233 (2013) & USP 38 / SCP 059
		Mercury	0.5-20 µg/L	Liquids - Antibiotics,	ICP-MS	USP 233 (2013) & USP

				Enzymes, Hormones, Medicinal and veterinary preparations, Vaccines and sera, Vitamins		38 / SCP 059
				1.0-20 µg/g		Solids - Antibiotics, Enzymes, Hormones, Medicinal and veterinary preparations, Vaccines and sera, Vitamins
766 Environmental testing (inc waters) - .01 Metal analysis	Determination of Cu, Zn, RE Mn in Soil	Copper	0.5-15 mg/L	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	Calculation by Chemical Analysis of Agricultural Material, An Foras Taluntais, 1979 / SSP 038
		Easily Extractable Manganese	5.0-750 mg/L	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	Calculation by Chemical Analysis of Agricultural Material, An Foras Taluntais, 1979 / SSP 038
		Zinc	0.5-15 mg/L	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	Calculation by Chemical Analysis of Agricultural Material, An Foras Taluntais, 1979 / SSP 038
	Determination of metals by ICP-MS	Aluminium	10-10,000 µg/L Al	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm Waters	ICP-MS	APHA, 3125B, 23Ed., (2017) / SCP 038
		Antimony	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
		Arsenic	0.25-2,500 mg/kg dw	Agricultural products and	ICP-MS	BS 7755 (1995) / SCP 038

				materials - Soils, Constituents of the environment - Soils		
		Barium	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
		Cadmium	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
			0.45-10,000 µg/L Cd	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm Waters	ICP-MS	APHA, 3125B, 23Ed., (2017) / SCP 038
		Chromium	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
			1-10,000 µg/L Cr	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm Waters	ICP-MS	APHA, 3125B, 23Ed., (2017) / SCP 038
		Cobalt	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the	ICP-MS	BS 7755 (1995) / SCP 038

			environment - Soils		
	Copper	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
		1-10,000 µg/L Cu	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm Waters	ICP-MS	APHA, 3125B, 23Ed., (2017) / SCP 038
	Iron	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
		5-10,000 µg/L Fe	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm Waters	ICP-MS	APHA, 3125B, 23Ed., (2017) / SCP 038
	Lead	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
		1-10,000 µg/L Pb	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters	ICP-MS	APHA, 3125B, 23Ed., (2017) / SCP 038

			- Surface waters - Effluents - Leachates - Storm Waters		
	Manganese	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
		1-10,000 µg/L Mn	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm Waters	ICP-MS	APHA, 3125B, 23Ed., (2017) / SCP 038
	Mercury	0.025-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
	Molybdenum	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
	Nickel	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
		1-10,000 µg/L Ni	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates -	ICP-MS	APHA, 3125B, 23Ed., (2017) / SCP 038

			Storm Waters		
	Selenium	0.5-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
	Vanadium	0.25-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
	Zinc	0.5-2,500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-MS	BS 7755 (1995) / SCP 038
		8-10,000 µg/L Zn	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm Waters	ICP-MS	APHA, 3125B, 23Ed., (2017) SCP 038
Determination of Metals by ICP-OES	Cadmium	2-1000 µg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053b
	Chromium	1-1000 µg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053b
	Cobalt	0.5-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b

	Copper	2-1000 µg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053b
	Iron	10-1000 µg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053b
	Lead	2-1000 µg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053b
	Manganese	0.5-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b
		2-1000 µg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053b
	Nickel	2-1000 µg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053b
	Zinc	10-1000 µg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053b
Determination of Metals in Soil	Antimony	0.25-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b
	Arsenic	0.25-2500 mg/kg	Agricultural	ICP-OES	BS 7755 (1995)

	dw	products and materials - Soils, Constituents of the environment - Soils		/ SCP 053b
Barium	0.25-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b
Cadmium	0.25-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b
Chromium	0.25-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b
Copper	0.25-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b
Lead	0.25-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b
Molybdenum	0.25-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b
Nickel	0.25-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b
Zinc	0.5-2500 mg/kg dw	Agricultural products and	ICP-OES	BS 7755 (1995) / SCP 053b

				materials - Soils, Constituents of the environment - Soils		
766 Environmental testing (inc waters) - .02 Biochemical oxygen demand	Determination of Biochemical Oxygen Demand	BOD	1-32,000 mg/L O ₂	Waters for potable and domestic purposes, Sewage, Saline Waters, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates	DO meter	APHA, 5210B, 23Ed., (2017) / SCP015
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	Determination of Chemical Oxygen Demand	COD	10-30,000 mg/L	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates	HACH / Colorimetric	APHA, 5520D, 23Ed., (2017) / SCP 016
766 Environmental testing (inc waters) - .04 Organic	Determination of Detergents in Water, Wastewater and Seawater by HACH Spectrophotometry	Anionic Detergents	0.01-1.25 mg/L LAS	Trade Wastes, Saline Waters, Bore Waters, WWTP Effluent, Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm Waters	HACH DR3900 / Spectrophotometry	APHA, 5540C, 22 Ed., (2012) / SCP 055
	Determination of Dustfall	Dust	N/A	Constituents of the environment - Atmospheric dust fall	Bergerhoff Dust Gauge	VDI 4320 Part 2, Measurement of Atmospheric Dust Depositions / SCP 039
	Determination of Organic Matter	Organic Matter	0.1-99.9 %	Agricultural products and materials - Soils, Constituents of the environment - Soils	Gravimetrically	BS 7755 (1995) / SSP 012
	Determination of Total Organic Carbon (TOC)	Total Organic Carbon	Total Organic Carbon	0.5-10,000 mg/L	Waters for potable and domestic purposes, WWTP	ANALYTIKJENA-MULTI N/C 2100S

				effluents, Other waters - Ground waters - Surface waters - Landfill Leachates		
	Determination of Turbidity	Turbidity	0.2-20 NTU	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	Nephelometry	APHA, 2130B, 22 Ed., (2012) / SCP 058
766 Environmental testing (inc waters) - .05 Inorganic	Determination of Alkalinity	Alkalinity	5-800 mg/L CaCO ₃	Waters for potable and domestic purposes, WWTP Effluents, Saline waters, Other waters - Ground waters, Surface waters, Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	HMSO, SCA, Method C. / SCP 027h
	Determination of Ammonia	Ammonia	0.02-12 mg/L N (0.03-15.4 mg/L NH ₄)	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500NH ₃ -G, 23Ed., (2017) / SCP 027a
	Determination of Ca, Mg, Na, K by ICP-OES 700 series	Calcium	1-250 mg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053a
		Magnesium	0.2-50 mg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053a
		Potassium	1-100 mg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053a
Sodium		1-250 mg/L	Waters for potable and	ICP-OES	APHA, 3120B 23 Ed., (2017) /	

				domestic purposes, Other Waters - Ground waters - Surface waters		SCP 053a
Determination of Chloride	Chloride	0.5-600 mg/L Cl	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser		APHA, 4500Cl-G, 23Ed., (2017) / SCP 027b
Determination of Colour by Spectrophotometry	Colour	5-500 Pt-Co	Waters for potable and domestic purposes, Sewage, Trade Wastes, Bore Waters,	Spectrophotometry		APHA, 2120C, 23 Ed., (2017) / SCP 018
Determination of Dustfall	Dust	N/A	Constituents of the environment - Atmospheric dust fall	Bergerhoff Dust Gauge		VDI 4320 Part 2, Measurement of Atmospheric Dust Depositions / SCP 039
Determination of Fluoride	Fluoride	0.1 - 10.0 mg/L	Potable waters, surface waters, ground waters and waste waters	ISE		USEPA 9214 - Potentiometric Determination of Fluoride in Aqueous Samples with Ion-Selective Electrode / SCP 063
Determination of Free Cyanide	Free Cyanide	0.01 - 0.5 mg/l	Waters for potable and domestic purposes	Spectrophotometry by Aquakem 250 Autoanalyser		CYN-D-P-A, SCP 0271
Determination of Magnesium in soil	Magnesium	20 – 500 mg/L	Agricultural products and materials - Soils, Constituents of the environment - Soils	Spectrophotometric technique		Documented in-house procedures based on the Department of Agriculture – DAF Publication – Standard Soil Analysis for REPS – 1st November 2004 / SSP 022c
Determination of metals by ICP-MS	Antimony	1-10,000 µg/L	Waters for potable and domestic purposes, Trade Wastes, Bore Waters,	ICP-MS		APHA, 3125B, 23 Ed., (2017) / SCP 038

			WWTP Effluent, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates		
	Arsenic	1-10,000 µg/L	Waters for potable and domestic purposes, Trade Wastes, Bore Waters, WWTP Effluent, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates	ICP-MS	APHA, 3125B, 23 Ed., (2017) / SCP 038
	Cobalt	1-10,000 µg/L	Waters for potable and domestic purposes, Trade Wastes, Bore Waters, WWTP Effluent, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates	ICP-MS	APHA, 3125B, 23 Ed., (2017) / SCP 038
	Mercury	0.5-20 µg/L	Waters for potable and domestic purposes, Trade Wastes, Bore Waters, WWTP Effluent, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates	ICP-MS	APHA, 3125B, 23 Ed., (2017) / SCP 038
	Molybdenum	5-10,000 µg/L	Waters for potable and domestic purposes, Trade Wastes, Bore Waters, WWTP Effluent, Other waters -	ICP-MS	APHA, 3125B, 23 Ed., (2017) / SCP 038

				Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates		
	Selenium	5-10,000 µg/L	Waters for potable and domestic purposes, Trade Wastes, Bore Waters, WWTP Effluent, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates	ICP-MS	APHA, 3125B, 23 Ed., (2017) / SCP 038	
Determination of Nitrate	Nitrate	0.25-45 mg/L N (1.11-199 mg/L NO ₃)	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA 4500NO ₃ -E, 23Ed., (2017) / SCP 027g	
Determination of Nitrite	Nitrite	0.005-10 mg/L N (0.016-32.8 mg/L NO ₂)	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500NO ₂ -B, 23Ed., (2017) / SCP 027f	
Determination of Orthophosphate	Orthophosphate	0.01-12 mg/l P (0.03-36.8 mg/L PO ₄)	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates, Saline waters	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500P-E, 23Ed., (2017) / SCP 027c	
Determination of Phosphorus (P) in Morgan's extracts	Phosphorus	1.0-30 mg/L	Agricultural products and materials - Soils, Constituents of the	Spectrophotometric Technique	Department of Agriculture - DAF Publication - Standard Soil Analysis for	

			environment - Soils		REPS - 1st November 2005 / SSP 022b
Determination of Potassium in Morgan's Extract	Potassium	20-500 mg/L	Agricultural products and materials - Soils, Constituents of the environment - Soils	Flame Photometric Technique	Department of Agriculture - DAF Publication - Standard Soil Analysis for REPS - 1st November 2005 / SSP 022a
Determination of Saline Ammonia	Saline Ammonia	0.035-0.4 mg/L N (0.045-0.51 mg/L NH ₄)	Waters for potable and domestic purposes, Saline Waters, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500NH ₃ -G, 23Ed., (2017) with application note D09161-01 / SCP 027j
Determination of Saline Total Oxidised Nitrogen	Saline TON	0.02-5 mg/L N	Waters for potable and domestic purposes, Saline Waters, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500NO ₃ -G, 23Ed., (2017) with application note D09727-3 Thermo Scientific (2014) / SCP 027k
Determination of Sulphate	Sulphate	0.5-600 mg/L SO ₄	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500SO ₄ -F, 23Ed., (2017) / SCP 027d
Determination of Total Hardness	Total Hardness	5-600 mg/L CaCO ₃	Waters for potable and domestic purposes, WWTP Effluents, Saline waters, Other waters - Ground waters, Surface waters, Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	USEPA Method 138.1. / SCP 027i
Determination of Total Kjeldahl Nitrogen by	Total Kjeldahl Nitrogen	0.5 - 10,000 mg/L N	Waters for potable and	Calculation	APHA, 4500N-C & 4500NO ₃ -

	calculation			domestic purposes, Saline Waters, WWTP Effluent, Other Waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachate		H 23 Ed., (2017) / SCP 057
	Determination of Total Nitrogen	Total Nitrogen	0.5 – 10,000 mg/L	Potable waters, Ground waters, Surface waters, Saline Waters, Leachates and Effluents	TOC/TN analyser analytik JENA	BS EN 12260 / SCP 065(a)
	Determination of Total Nitrogen by Digestion/Spectrophotometry	Nitrogen	1-10,000 mg/L N	Sewage, Trade Wastes, Saline Waters, Other Waters	HACH DR3900 / Spectrophotometry	APHA, 4500N, 23Ed., (2017) / SCP 043
	Determination of Total Oxidised Nitrogen	TON	0.2-50 mg/L N	Waters for potable and domestic purposes, Saline Waters, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500NO3-E, 23Ed., (2017) with application note 71395 Thermo Scientific (2014) / SCP 027e
	Determination of Total Phosphorus by Digestion/Spectrophotometry	Phosphorus	0.04-100 mg/L P	Sewage, Trade Wastes, Saline Waters, Other Waters	HACH DR3900 / Spectrophotometry	APHA, 4500-P, 23Ed., (2017) / SCP 044
	OPERATION OF iCAPQ ICP-MS AND DETERMINATION OF METALS BY ICAPQ-MS	Boron	20-10,000 µg/L	Waters for potable and domestic purposes	iCAPQ-MS	APHA, 3125B, 23rd Ed. (2017)/ SCP 073
767 Physical test/measurement - .01 pH	Determination of pH and Conductivity using Rohasys minilab	pH	4-10 pH Units	Waters for potable and domestic purposes, Trade Wastes, Saline Waters, Bore Waters, WWTP Effluent, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates	Rohasys Minilab	APHA, 4500B-H+, 23 Ed., (2017) / SCP 052
	Determination of water pH and Buffer pH in Soils	pH Soil (Water)	4-10 pH Units	Agricultural products and materials - Soils,	Rohasys Minilab	Department of Agriculture - DAF Publication -

				Constituents of the environment - Soils		Standard Soil Analysis for REPS - 1st November 2004 / SSP 021
		SMP Buffer pH - for determination of Lime Requirement by calculation	4-10 pH Units	Agricultural products and materials - Soils, Constituents of the environment - Soils	Rohasys Minilab	Department of Agriculture - DAF Publication - Standard Soil Analysis for REPS - 1st November 2005 & Calculation by Chemical Analysis of Agricultural Material, An Foras Taluntais, 1979 / SSP 021
767 Physical test/measurement - .02 Conductivity	Determination of pH and Conductivity using Rohasys minilab	Conductivity	14.7-111,900 μ S/cm @ 20°C	Waters for potable and domestic purposes, Trade Wastes, Saline Waters, Bore Waters, WWTP Effluent, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates	Rohasys Minilab	APHA, 2510B, 23 Ed., (2017) / SCP 052
767 Physical test/measurement - .03 Suspended Solids	Determination of Suspended Solids	Suspended Solids	2-10,000 mg/L	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates	Gravimetrically	APHA, 2540D, 23Ed., (2017) / SCP 010

Biology/veterinary field - Tests	Test name	Technique	Matrix	Equipment	Std. reference	
803 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring for growth - .01 Culture of bacteria	Enumeration of Clostridium perfringens	Membrane Filtration	Waters - potable waters	Membrane Filtration	ISO 14189:2013 / SMP 069	
	Enumeration of Enterococci by Enterolert method	Enterolert / MPN	Wastewater treatment plant (WWTP) effluents, wastewater, effluent	fluorescence cabinet; colilert vessels; quanti-trays	Enterolert-E protocol / SMP 068	
	Enumeration of Faecal coliforms	Colilert-18 / MPN	Wastewater treatment plant effluent (WWTP effluent), Wastewater, effluent, surface water	Colilert vessels; quanti-trays	Idexx Colilert-18 protocol / SMP 124	
	Enumeration of TVC in waters- colony count technique	Colony Count	Waters - potable waters, Effluents	N/A	ISO 6222:1999 / SMP 061	