

# Schedule of Accreditation



Organisation Name	Limerick City and County Council
Trading As	
INAB Reg No	314T
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Website	<a href="https://www.limerick.ie/council">https://www.limerick.ie/council</a>
Accreditation Standard	ISO 17025 T
Date of award of accreditation	10/09/2013
Scope Classification	Biological and veterinary testing
Scope Classification	Chemical testing
Services available to the public <sup>1</sup>	No

<sup>1</sup> 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	Head Office	Corporate Laboratory Services, Lissanalta House, Dooradoyle, Limerick

# 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 Clostridium perfringens	Membrane Filtration	Environmental Waters	N/A	TM-MICRO-8 based on ISO 14189:2013
			Potable Waters	N/A	TM-MICRO-8 based on ISO 14189:2013
	Enumeration of Coliform bacteria by Colilert-18 MPN	Colilert-18 MPN by Idexx	Environmental Waters	Idexx Quanti-tray Sealer	TM-Micro-2 based on ISO 9308-2:2012
			Potable Waters	Idexx Quanti-tray Sealer	TM-Micro-2 based on ISO 9308-2:2012
			Sewage	Idexx Quanti-tray Sealer	TM-Micro-2 based on ISO 9308-2:2012
	Enumeration of E.coli by Colilert-18 MPN		Environmental Waters	Idexx Quanti-tray Sealer	TM-Micro-2 based on ISO 9308-2:2012
			Potable Waters	Idexx Quanti-tray Sealer	TM-Micro-2 based on ISO 9308-2:2012
			Sewage	Idexx Quanti-tray Sealer	TM-Micro-2 based on ISO 9308-2:2012
	Enumeration of Enterococci by Enterolert - DW MPN	Enterolert - DW MPN by Idexx	Environmental Waters	Idexx Quanti-tray Sealer	TM-Micro-7 based on MPN by Idexx Enterolert - E. Microbiology of Drinking

					Water - Part 5B-2012 (SCA-UK)
	Enumeration of Enterococci by Enterolert - DW MPN	Enterolert -DW MPN by Idexx	Potable Waters	Idexx Quanti-tray Sealer	TM-Micro-3 based on MPN by Idexx Enterolert DW Microbiology of Drinking Water - Part 5B-2012 (SCA-UK)
	Enumeration of Enterococci by Enterolert - E MPN	Enterolert - E MPN by Idexx	Sewage	Idexx Quanti-tray Sealer	TM-Micro-7 based on MPN by Idexx Enterolert - E. Microbiology of Drinking Water - Part 5B-2012 (SCA-UK)
	Enumeration of Total Viable Count at 22 degrees Celsius	Pour Plate	Potable Waters	N/A	TM-Micro-4 based on ISO 6222:1999.

Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
766 Environmental testing (inc waters) - .01 Metal analysis	Determination of metals by ICP-MS	Aluminium	20 - 1000 ug/L	Waters for Potable and Domestic Purposes	ICP-MS	TM-CHEM-27 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 3125 B and Varian ICP-MS customer training manual
		Iron	50 - 500 ug/L	Waters for Potable and Domestic Purposes	ICP-MS	TM-CHEM-27 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 3125 B and Varian ICP-MS customer training manual
		Lead	2.5 - 100 ug/L	Waters for Potable and Domestic Purposes	ICP-MS	TM-CHEM-27 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 3125 B and Varian ICP-MS customer training manual
		Manganese	2.5 - 100 ug/L	Waters for Potable and Domestic Purposes	ICP-MS	TM-CHEM-27 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 3125 B and Varian ICP-MS customer training manual
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	Chemical Oxygen Demand	COD Organic and Inorganic Components	High range: 1450 - 14500 mg/l	Waste water treatment plant	HACH COD Reactors HACH DR 3900 Spectrophotometer	TM-CHEM-28 High range based on Standard Methods for

				effluent (WWTP effluent)		the Examination of Water and Wastewater 23rd Edition, 2017: 5220 D
			Low range: 10 - 145 mg/l	Other waters (surface waters)	HACH COD Reactors HACH DR 3900 Spectrophotometer	TM-CHEM-4 Low range based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 5220 D
			Low range: 10 - 145 mg/l	Waste water treatment plant effluent (WWTP effluent)	HACH COD Reactors HACH DR 3900 Spectrophotometer	TM-CHEM-4 Low range based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 5220 D
			Mid range: 100 - 1450 mg/l	Waste water treatment plant effluent (WWTP effluent)	HACH COD Reactors HACH DR 3900 Spectrophotometer	TM-CHEM-29 Mid range based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 5220 D
766 Environmental testing (inc waters) - .05 Inorganic	Alkalinity	Alkalinity	10 - 400 mg/L as CaCO3	Waters for Potable and Domestic Purposes, Surface Waters	Gallery Plus	TM-CHEM-38 based on Gallery Alkalinity Method D11699_03
	Ammonia	Ammonium ion concentration	0.04 - 5 mg/L as N	Waters for Potable and Domestic Purposes, Surface Waters	Gallery Plus	TM-CHEM-35 based on Methods for the examination of water and associated materials: Ammonia in Waters (1981), Method D
	Ammonia High	Ammonia	0.1-50 mg/L as N	WWTP effluent	Gallery Plus	TM-CHEM-39 based on Methods for the Examination of Water and Associated Materials: Ammonia in Waters (1981), Method D

Chloride	Chloride	10-500 mg/L	Waters for Potable and Domestic Purposes, Surface Waters	Gallery Plus	TM-CHEM-37 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition (2017), 4500-Cl- E
Determination of Colour	Colour: True (filtered), Apparent (unfiltered)	5 - 500 Hazen	Waters for Potable and Domestic Purposes	Spectrophotometric determination of a sample(filtered or unfiltered)	TM-CHEM-7 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 2120 C
Determination of Turbidity	Light scattering by material in water	0.2 - 100 NTU	Waters for Potable and Domestic Purposes	Turbidimeter	TM-CHEM-25 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017, 2130 B
Fluoride	Fluoride ion concentration	0.2 - 2.0 mg/L	Waters for Potable and Domestic Purposes	Ion Selective Electrode	TM-CHEM-9 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 4500-F- C
Hardness	Hardness	30 - 1000 mg/L as CaCO <sub>3</sub>	Waters for Potable and Domestic Purposes, Surface Waters	Gallery Plus	TM-CHEM-38 based on US EPA Method 130.1
Nitrate by calculation	Nitrate	1-20 mg/L as N	Waters for Potable and Domestic Purposes, Surface Waters	Gallery Plus	TM-CHEM-36 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition (2017), 4500-NO <sub>3</sub> - H and 4500-NO <sub>2</sub> - B
Nitrite	Nitrite	0.02-1 mg/L as N	Waters for Potable and Domestic Purposes, Surface Waters	Gallery Plus	TM-CHEM-36 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition (2017), 4500-NO <sub>2</sub> - B
Orthophosphate	Orthophosphate	0.01-2 mg/L as P	Waters for Potable and Domestic	Gallery Plus	TM-CHEM-36 based on Standard Methods for the Examination of

				Purposes, Surface Waters		Water and Wastewater 23rd Edition (2017), 4500-P E
	Orthophosphate High		0.05-10 mg/L as P	WWTP effluent	Gallery Plus	TM-CHEM-40 based on Standard Methods for the Examination of Water and Wastewater 23rd Ed. (2017), 4500-P E
	Sulphate	Sulphate	5-500 mg/L	Waters for Potable and Domestic Purposes, Surface Waters	Gallery Plus	TM-CHEM-37 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition (2017), 4500-SO42- E
	Total Oxidised Nitrogen	TON	1-20 mg/L as N	Waters for Potable and Domestic Purposes, Surface Waters	Gallery Plus	TM-CHEM-36 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition (2017), 4500-NO3- H
767 Physical test/measurement - .01 pH	pH	Hydrogen ion concentration	Range: 4-10	Other waters (surface waters)	pH meter	TM-CHEM-21 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 4500-H+
			Range: 4-10	Waste water treatment plant effluent (WWTP effluent)	pH meter	TM-CHEM-21 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 4500-H+
			Range: 4-10	Waters for Potable and Domestic Purposes	pH meter	TM-CHEM-21 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 4500-H+
767 Physical test/measurement - .02 Conductivity	Conductivity	Concentration of dissolved solids which have been ionised in a polar solution	45.13 - 4523 uS/cm	Waters for Potable and Domestic Purposes	Conductivity meter	TM-CHEM-32 based on Standard Methods for the Examination of Water and Wastewater

						23rd Edition, 2017: 2510 B
767 Physical test/measurement - .03 Suspended Solids	Total Suspended Solids	Suspended Solids	5 - 1000 mg/l	Waste water treatment plant effluent (WWTP effluent)	Membrane filtration	TM-CHEM-22 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 2540 D
			5-1000 mg/l	Other Waters(Surface Waters)	Membrane Filtration	TM-CHEM-22 based on Standard Methods for the Examination of Water and Wastewater 23rd Edition, 2017: 2540 D