

Schedule of Accreditation



Organisation Name	Trinity College Dublin The University of Dublin
Trading As	Earth Surface Research Laboratory
INAB Reg No	394T
Contact Name	Clara Amaral Siqueira
Address	College Green, Dublin, D02 PN40
Contact Phone No	+353 1 896 2089
Email	decastrc@tcd.ie
Website	https://www.tcd.ie
Accreditation Standard	EN ISO/IEC 17025 T
Standard Version	2017
Date of award of accreditation	15/12/2021
Scope Classification	Chemical testing
Services available to the public ¹	No

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	Earth Surface Research Laboratory (ESRL)	TTEC, Unit 6, Pearse Street 0.1 - Ground Floor, Dublin 2, Dublin, Ireland, D02 N638

Scope of Accreditation

Earth Surface Research Laboratory (ESRL)

Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
710 Materials testing - .03 Chemical analysis	Pressed powder by XRF	Aluminium (Al ₂ O ₃)	0.20 - 28.57 wt%	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
		Antimony (Sb)	0.3 - 505.0 ppm	Soil and sediment	Zetium-EDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
		Arsenic (As)	0.9 - 8000.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
		Barium (Ba)	2.5 - 1856.0 ppm	Soil and sediment	Zetium-EDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed

				pellets)
Bismuth (Bi)	0.5 - 90.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Bromine (Br)	1.5 - 99.7 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Cadmium (Cd)	0.3 - 1199.0 ppm	Soil and sediment	Zetium-EDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Caesium (Cs)	1.3 - 48.1 ppm	Soil and sediment	Zetium-EDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Calcium (CaO)	0.05 - 17.83 wt%	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Cerium (Ce)	2.5 - 500.0 ppm	Soil and sediment	Zetium-EDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Chromium (Cr)	2.0 - 42600.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)

Cobalt (Co)	1.1 - 226.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Copper (Cu)	1.4 - 3420.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Gallium (Ga)	1.0 - 20.6 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Iron (Fe ₂ O ₃)	0.01 - 33.90 wt%	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Lanthanum (La)	2.0 - 260.0 ppm	Soil and sediment	Zetium-EDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Lead (Pb)	0.8 - 6650.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Magnesium (MgO)	0.02 - 11.70 wt%	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Manganese (MnO)	0.002 - 2.260 wt%	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on

				ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Molybdenum (Mo)	0.5 - 119.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Neodymium (Nd)	5.0 - 60.3 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Nickel (Ni)	0.8 - 380.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Niobium (Nb)	0.9 - 63.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Phosphorus (P2O5)	0.01 - 1.82 wt%	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Potassium (K2O)	0.02 - 5.00 wt%	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Rubidium (Rb)	1.9 - 220.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-

				ESRL-09 (pressed pellets)
Scandium (Sc)	4.7 - 29.5 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Selenium (Se)	0.3 - 1175.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Silicon (SiO ₂)	1.49 - 97.98 wt%	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Silver (Ag)	0.7 - 76.0 ppm	Soil and sediment	Zetium-EDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Sodium (Na ₂ O)	0.02 - 5.79 wt%	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Strontium (Sr)	0.9 - 454.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Sulphur (S)	35.2 - 13200.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)

Thallium (Tl)	0.5 - 11.1 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Thorium (Th)	0.8 - 25.9 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Tin (Sn)	0.5 - 400.0 ppm	Soil and sediment	Zetium-EDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Titanium (TiO ₂)	0.01 - 2.85 wt%	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Tungsten (W)	1.1 - 2000.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Uranium (U)	0.4 - 12.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Vanadium (V)	1.8 - 2360.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
Yttrium (Y)	1.1 - 254.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on

						ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
		Zinc (Zn)	1.0 - 5900.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)
		Zirconium (Zr)	2.2 - 618.0 ppm	Soil and sediment	Zetium-WDXRF	In-house test procedure, based on ISO 18227:2014. SOP-ESRL07 and SOP-ESRL-09 (pressed pellets)