

# Accreditation Certificate

## TE Laboratories Ltd.

Loughmartin Business Park, Tullow, Co. Carlow.

Testing Laboratory

Registration number: 106T

is accredited by the Irish National Accreditation Board (INAB) to undertake testing as detailed in the Schedule bearing the Registration Number detailed above, in compliance with the International Standard ISO/IEC 17025:2005 2<sup>nd</sup> Edition "General Requirements for the Competence of Testing and Calibration Laboratories" (This Certificate must be read in conjunction with the Annexed Schedule of Accreditation)

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Date of award of accreditation: 15:02:2002

Date of last renewal of accreditation: 24:01:2011

Expiry date of this certificate of accreditation: 24:01:2016

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This Accreditation shall remain in force until further notice subject to continuing compliance with INAB accreditation criteria, ISO/IEC 17025 and any further requirements specified by the Irish National Accreditation Board.

Manager:  \_\_\_\_\_

Dr Adrienne Duff

Chairperson:  \_\_\_\_\_

Mr Tom O'Neill

Issued on 24 January 2011

Organisations are subject to annual surveillance and are re-assessed every five years. The renewal date on this Certificate confirms the latest date of renewal of accreditation. To confirm the validity of this Certificate, please contact the Irish National Accreditation Board.

The INAB is a signatory of the European co-operation for Accreditation (EA) Testing Multilateral Agreement (MLA) and the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement.

# Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:

Category A

## TE LABORATORIES LTD.

### Chemical Testing Laboratory

**Initial Registration Date :** 26-May-1999  
**Postal Address:** Loughmartin Business Park  
**(Address of other locations as they apply)** Tullow  
Co. Carlow  
**Telephone:** +353 (059) 9152881  
**Fax:** +353 (059) 9152886  
**E-mail:** [info@tellab.ie](mailto:info@tellab.ie)  
**Contact Name:** Ms Breda Moore  
**Facilities:** Public testing service

# Schedule of Accreditation



Permanent Laboratory:  
 Category A

THE IRISH NATIONAL ACCREDITATION BOARD (INAB) is the Irish body for the accreditation of organisations including laboratories.

Laboratory accreditation is available to testing and calibration facilities operated by manufacturing organisations, government departments, educational institutions and commercial testing/calibration services. Indeed, any organisation involved in testing, measurement or calibration in any area of technology can seek accreditation for the work it is undertaking.

Each accredited laboratory has been assessed by skilled specialist assessors and found to meet criteria which are in compliance with ISO/IEC 17025 or ISO/IEC 15189 (medical laboratories). Frequent audits, together with periodic inter-laboratory test programmes, ensure that these standards of operation are maintained.

## Testing and Calibration Categories:

- Category A:** Permanent laboratory calibration and testing where the laboratory is erected on a fixed location for a period expected to be greater than three years.
- Category B:** Site calibration and testing that is performed by staff sent out on site by a permanent laboratory that is accredited by the Irish National Accreditation Board.
- Category C:** Site calibration and testing that is performed in a site/mobile laboratory or by staff sent out by such a laboratory, the operation of which is the responsibility of a permanent laboratory accredited by the Irish National Accreditation Board.
- Category D:** Site calibration and testing that is performed on site by individuals and organisations that do not have a permanent calibration/testing laboratory. Testing may be performed using
- (a) portable test equipment
  - (b) a site laboratory
  - (c) a mobile laboratory or
  - (d) equipment from a mobile or site laboratory

## Standard Specification or Test Procedure Used:

The standard specification or test procedure that is accredited is the issue that is current on the date of the most recent visit, unless otherwise stated.

## Glossary of Terms

### Facilities:

- Public calibration/testing service:** Commercial operations which actively seek work from others.
- Conditionally available for public calibration/testing:** Established for another primary purpose but, more commonly than not, is available for outside work.
- Normally not available for public calibration/testing:** Unavailable for public calibration/testing more often than not.

Laboratory users wishing to obtain assurance that calibration or test results are reliable and carried out to the Irish National Accreditation Board criteria should insist on receiving an accredited calibration certificate or test report. Users should contact the laboratory directly to ensure that this scope of accreditation is current. INAB will, on request, verify the status and scope.

# Scope of Accreditation



TE LABORATORIES LTD.

Permanent Laboratory:

Category A

Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766 Waters		Documented in house methods:
.99 Other waters <i>Ground waters</i> <i>Surface waters</i> <i>Effluents</i> <i>Leachates</i>	<b>pH</b> 2-12	Electrometry ** 420A TP 003
.01 Waters for potable and domestic purposes	<b>Trace elements (dissolved)</b>  Chromium 0.05 - 50 mg/L  Copper 0.05 - 50 mg/L  Iron 0.05-50mg/L  Zinc 0.01- 10 mg/L  Manganese 0.03 - 20 mg/L	Direct Aspiration Flame AAS Perkin Elmer 1100 TP001
766 Waters	<b>Trace elements (dissolved)</b>	Documented in house methods:
.99 Other waters <i>Effluents</i>	Cobalt 0.12 - 30 mg/L	Direct Aspiration Flame AAS Perkin Elmer 1100
.01 Waters for potable and domestic purposes		TP001

# Scope of Accreditation



**TE LABORATORIES LTD.**

Permanent Laboratory:

Category A

**Chemical Testing Laboratory**

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766 .99	Waters Other waters <i>Ground waters</i> <i>Surface waters</i> <i>Effluents</i> <i>Leachates</i>	Trace elements (dissolved) Lead 0.20 - 90 mg/L  Nickel 0.10 - 20 mg/L  Cadmium 0.03 - 20 mg/L	Documented in house methods:  Direct Aspiration Flame AAS Perkin Elmer 1100 TP001
766 .99  .01	Waters Other waters <i>Ground waters</i> <i>Surface waters</i> <i>Effluents</i> <i>Leachates</i>  Waters for potable and domestic purposes	Anions (dissolved) Chloride 0.5-5000 mg/L  Nitrate 0.11 - 5000 mg/L as N  Orthophosphate 0.33 - 250 mg/L as P  Sulphate 0.25 - 10,000 mg/L  Fluoride 0.1- 50 mg/L  Nitrite 0.06 - 250 mg/L as N	Documented in house methods:  Ion chromatography Dionex IC DX - 120 TP002

# Scope of Accreditation



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Permanent Laboratory:

Category A

**Chemical Testing Laboratory**

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
<b>766 Waters</b> .99 Other waters <i>Ground waters</i> <i>Surface waters</i> <i>Effluents</i> <i>Leachates</i> .01 Waters for potable and domestic purposes	Total Oxidized Nitrogen (Calculated from the sum of nitrate and nitrite) 0.17 - 5250 mg/L as N	Documented in house methods:  Ion chromatography Dionex IC DX - 120 TP002
<b>766 Waters</b> .99 Other waters <i>Ground waters</i> <i>Surface waters</i> <i>Effluents</i> <i>Leachates</i> .01 Waters for potable and domestic purposes	<b>Cations</b>  Calcium 2.5 - 10,000 mg/L  Magnesium 1 - 625 mg/L  Sodium 1-10,000 mg/L  Potassium 1-2,500 mg/L  Hardness by calculation of magnesium and calcium values	Documented in house methods:  Ion Chromatography TP 004

# Scope of Accreditation



**TE LABORATORIES LTD.**

Permanent Laboratory:

Category A

**Chemical Testing Laboratory**

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	Waters	Metals	Documented in house methods:
.99	Other waters <i>Ground waters</i> <i>Surface waters</i> <i>Effluents</i> <i>Leachates</i>	Lead 2 - 40 µg/L  Cadmium 0.1- 2 µg/L	GF - AAS TP007
.01	Waters for potable and domestic purposes	Chromium 1 - 25 µg/L	
766	Waters	Conductivity	Documented in house methods:
.99	Other waters <i>Ground waters</i> <i>Surface waters</i> <i>Effluents</i> <i>Leachates</i>	5µS - 12,500 µS/cm	TP005
.01	Waters for potable and domestic purposes		