

Schedule to
CERTIFICATE OF ACCREDITATION

New Zealand Steel Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 101

2.01 Metals and Alloys

- (a) Ferrous materials**
- (h) Other metals and alloys (carbon and low alloy steels, stainless steels)**

The following elements by optical emission vacuum spectrometric analysis in accordance with ASTM E415-17, and JIS G 1253

Aluminium	Boron	Carbon	Chromium
Cobalt	Copper	Lead	Manganese
Molybdenum	Nitrogen	Niobium	Nickel
Phosphorus	Silicon	Sulphur	Tin
Titanium	Tungsten	Vanadium	Zirconium

- (h) Other metals and alloys (white irons)**

The following elements by optical emission vacuum spectrometric analysis.

Aluminium	Boron	Carbon	Chromium
Copper	Lead	Magnesium	Manganese
Molybdenum	Niobium	Nickel	Phosphorus
Silicon	Sulphur	Tin	Titanium
Vanadium			

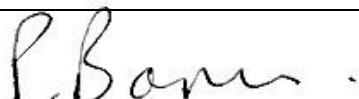
2.04 Ores and Minerals

- (a) Ferrous ores**

The following elements by X Ray Fluorescence spectrophotometric analysis based on In-house methods (TA 3210.003)

Aluminium	Calcium	Chromium	Copper
Iron	Manganese	Magnesium	Phosphorus
Potassium	Silicon	Sodium	Titanium
Vanadium	Zinc		

Authorised:
 General Manager



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2.41 Waters

(b) Non-potable waters (ground waters)

The following tests are in accordance with APHA "Standard Methods for the Examination of Water and Wastewater" (22nd Edition)

The following elements by inductively coupled plasma optical emission spectroscopy (ICP-OES) in accordance with APHA 3120 A and 3120 B.

Boron	Cadmium	Chromium	Cobalt
Copper	Lead	Manganese	Molybdenum
Nickel	Phosphorus	Vanadium	Zinc

(d) Effluents and trade wastes

The following tests are in accordance with APHA Standard Methods for the Examination of Water and Wastewater (22nd Edition) except where otherwise indicated.

Dissolved oxygen	4500-O C
Oil and grease	In-house by non-dispersive Infra Red Spectroscopy
pH	4500-H+ B
Temperature (0-140 °C)	In-house by digital thermometer
Total suspended solids	2450 D

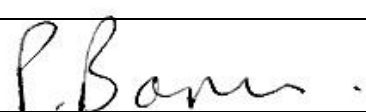
The following elements by inductively coupled plasma optical emission spectroscopy (ICP-OES) in accordance with APHA 3120 A and 3120 B.

Chromium (total)	Cobalt	Copper	Iron
Lead	Manganese	Nickel	Zinc

2.81 Other Specified Inorganic Material

(a) Steel making slags

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The following elements by XRF spectrophotometric analysis in accordance with in-house methods

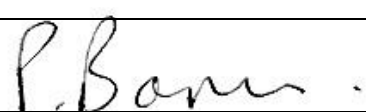
Aluminium	Calcium	Iron	Manganese
Magnesium	Phosphorus	Potassium	Sodium
Silicon	Titanium	Vanadium	

References:

APHA American Public Health Association
ASTM American Society for Testing and Materials
JIS Japanese Industrial Standard

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