



ANNEX F4

CALIBRATION CERTIFICATES FOR
EFFLUENT QUALITY MONITORING
EQUIPMENT



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

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CLIENT: ALS TECHNICHEM (HK) PTY LTD
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WORK ORDER: HK2447140
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 12-Nov-2024
DATE OF ISSUE: 15-Nov-2024

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type: pH meter
Service Nature: Performance Check

Scope: pH Value and Temperature

Brand Name/ Model No.: [LUTRON]/ [PH-208]
Serial No./ Equipment No.: [AL.59355/TF31039]/ [HK2141]
Date of Calibration: 14-November-2024

Ms. Cheng Sin Ying, May
Senior Chemist - Inorganics

This report shall not be reproduced except in full without the written approval of the laboratory.

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2447140
SUB-BATCH: 0
DATE OF ISSUE: 15-Nov-2024
CLIENT: ALS TECHNICHEM (HK) PTY LTD

Equipment Type: pH meter
Brand Name/ Model No.: [LUTRON]/ [PH-208]
Serial No./ Equipment No.: [AL.59355/TF31039]/ [HK2141]
Date of Calibration: 14-November-2024 Date of Next Calibration: 14-February-2025

PARAMETERS:

pH Value

Method Ref: APHA (23rd edition), 4500H: B

| Expected Reading (pH unit) | Displayed Reading (pH unit) | Tolerance (pH unit) |
|----------------------------|-----------------------------|---------------------|
| 4.0 | 3.93 | -0.07 |
| 7.0 | 7.03 | +0.03 |
| 10.0 | 10.01 | +0.01 |
| | Tolerance Limit (pH unit) | ±0.20 |

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

| Expected Reading (°C) | Displayed Reading (°C) | Tolerance (°C) |
|-----------------------|------------------------|----------------|
| 11.0 | 11.9 | +0.9 |
| 19.0 | 19.1 | +0.1 |
| 38.5 | 38.3 | -0.2 |
| | Tolerance Limit (°C) | ±2.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Cheng Sin Ying, May
Senior Chemist - Inorganics