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# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

| | | | |
|---|---|---|---|
| **CONTACT:** | THOMAS CHAN | **WORK ORDER:** | HK2525676 |
| **CLIENT:** | MOTT MACDONALD HONG KONG LIMITED | | |
| **ADDRESS:** | 3/F, MANULIFE PLACE,<br>348 KWUN TONG ROAD, KWUN TONG,<br>KOWLOON, HONG KONG | **SUB-BATCH:** | 0 |
| | | **LABORATORY:** | HONG KONG |
| | | **DATE RECEIVED:** | 20-Jun-2025 |
| | | **DATE OF ISSUE:** | 02-Jul-2025 |

## 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This report superseded any previous report(s) with same work order number.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: | Multifunctional Meter |
| Service Nature: | Performance Check |
| Scope: | Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature |
| Brand Name/ Model No.: | [HORIBA]/ [U-53] |
| Serial No./ Equipment No.: | [X42XKBNO/4BHN08KG]/ [N/A] |
| Date of Calibration: | 26-June-2025 |

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

**WORK ORDER:** HK2525676

**SUB-BATCH:** 0
**DATE OF ISSUE:** 02-Jul-2025
**CLIENT:** MOTT MACDONALD HONG KONG LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [X42XKBNO/4BHN08KG]/ [N/A]
Date of Calibration: 26-June-2025 Date of Next Calibration: 26-September-2025

**PARAMETERS:**

**Conductivity** **Method Ref: APHA (23rd edition), 2510B**

| Expected Reading (µS/cm) | Displayed Reading (µS/cm) | Tolerance (%) |
|---|---|---|
| 146.9 | 155 | +5.5 |
| 6667 | 7260 | +8.9 |
| 12890 | 13600 | +5.5 |
| 58670 | 59200 | +0.9 |
| | Tolerance Limit (%) | ±10.0 |

**Dissolved Oxygen** **Method Ref: APHA (23rd edition), 4500O: G**

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) |
|---|---|---|
| 2.78 | 2.90 | +0.12 |
| 4.04 | 4.10 | +0.06 |
| 7.16 | 7.23 | +0.07 |
| | Tolerance Limit (mg/L) | ±0.20 |

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

| Expected Reading (pH unit) | Displayed Reading (pH unit) | Tolerance (pH unit) |
|---|---|---|
| 4.0 | 3.85 | -0.15 |
| 7.0 | 6.95 | -0.05 |
| 10.0 | 9.94 | -0.06 |
| | Tolerance Limit (pH unit) | ±0.20 |

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

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**WORK ORDER:** HK2525676

**SUB-BATCH:** 0
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**CLIENT:** MOTT MACDONALD HONG KONG LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [X42XKBNO/4BHN08KG]/ [N/A]
Date of Calibration: 26-June-2025 Date of Next Calibration: 26-September-2025

**PARAMETERS:**

**Turbidity** **Method Ref: APHA (23rd edition), 2130B**

| Expected Reading (NTU) | Displayed Reading (NTU) | Tolerance (%) |
|---|---|---|
| 0 | 0.27 | -- |
| 4 | 3.9 | -2.5 |
| 40 | 41.5 | +3.8 |
| 80 | 77.6 | -3.0 |
| 400 | 417 | +4.3 |
| 800 | 775 | -3.1 |
| | Tolerance Limit (%) | ±10.0 |

**Salinity** **Method Ref: APHA (23rd edition), 2520B**

| Expected Reading (ppt) | Displayed Reading (ppt) | Tolerance (%) |
|---|---|---|
| 0 | 0.01 | -- |
| 10 | 10.42 | +4.2 |
| 20 | 21.29 | +6.5 |
| 30 | 31.81 | +6.0 |
| | Tolerance Limit (%) | ±10.0 |

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

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**WORK ORDER:** HK2525676

**SUB-BATCH:** 0
**DATE OF ISSUE:** 02-Jul-2025
**CLIENT:** MOTT MACDONALD HONG KONG LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [X42XKBNO/4BHN08KG]/ [N/A]
Date of Calibration: 26-June-2025 Date of Next Calibration: 26-September-2025

**PARAMETERS:**

**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) |
|---|---|---|
| 11.5 | 12.59 | +1.1 |
| 19.0 | 19.69 | +0.7 |
| 38.0 | 38.41 | +0.4 |
| | Tolerance Limit (°C) | ±2.0 |

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

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-------- END OF REPORT --------