



REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: THOMAS CHAN
CLIENT: MOTT MACDONALD HONG KONG LIMITED
ADDRESS: 3/F, MANULIFE PLACE, 348 KWUN TONG ROAD
KWUN TONG, KOWLOON, HONG KONG

WORK ORDER: HK2438445
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 23-Sep-2024
DATE OF ISSUE: 30-Sep-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This report superseded any previous report(s) with same work order number.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: 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: 27-September-2024

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

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Date of Calibration: 27-September-2024 Date of Next Calibration: 27-December-2024

PARAMETERS:

Conductivity

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

Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)
146.9	161	+9.6
6667	6860	+2.9
12890	13800	+7.1
58670	62700	+6.9
	Tolerance Limit (%)	± 10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.84	2.70	-0.14
5.44	5.52	+0.08
7.48	7.35	-0.13
	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	3.93	-0.07
7.0	6.85	-0.15
10.0	9.85	-0.15
	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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PARAMETERS:

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	--
4	4.12	+3.0
40	42.5	+6.3
80	86.2	+7.8
400	435	+8.8
800	839	+4.9
	Tolerance Limit (%)	±10.0

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	--
10	10.31	+3.1
20	21.83	+9.1
30	32.53	+8.4
	Tolerance Limit (%)	±10.0

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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)
11.0	12.39	+1.4
19.5	18.74	-0.8
41.0	40.37	-0.6
	Tolerance Limit (°C)	±2.0

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