



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: HK2324737
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 26-Jun-2023
DATE OF ISSUE: 05-Jul-2023

SPECIFIC COMMENTS

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

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: 04-July-2023

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2324737
SUB-BATCH: 0
DATE OF ISSUE: 05-Jul-2023
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: 04-July-2023 Date of Next Calibration: 04-October-2023

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	159	+8.2
6667	6720	+0.8
12890	12900	+0.1
58670	55000	-6.3
	Tolerance Limit (%)	± 10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.71	2.82	+0.11
5.69	5.73	+0.04
7.01	6.99	-0.02
	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	4.11	+0.11
7.0	7.02	+0.02
10.0	9.95	-0.05
	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.

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2324737
SUB-BATCH: 0
DATE OF ISSUE: 05-Jul-2023
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: 04-July-2023 Date of Next Calibration: 04-October-2023

PARAMETERS:

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	--
4	3.63	-9.3
40	36.4	-9.0
80	77.7	-2.9
400	367	-8.3
800	729	-8.9
	Tolerance Limit (%)	±10.0

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.02	--
10	9.63	-3.7
20	19.00	-5.0
30	28.35	-5.5
	Tolerance Limit (%)	±10.0

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

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2324737
SUB-BATCH: 0
DATE OF ISSUE: 05-Jul-2023
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: 04-July-2023 Date of Next Calibration: 04-October-2023

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)
10.0	9.72	-0.3
21.5	20.56	-0.9
44.0	43.45	-0.5
	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. Lin Wai Yu, Iris
Assistant Manager - Inorganics