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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: THOMAS CHAN WORK ORDER: HK2250993

CLIENT: MOTT MACDONALD HONG KONG LIMITED

ADDRESS: 3/F, MANULIFE PLACE, **SUB-BATCH:**

348 KWUN TONG ROAD, LABORATORY: HONG KONG KWUN TONG, KOWLOON, DATE RECEIVED: 21-Dec-2022 DATE OF ISSUE: 30-Dec-2022

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: 28-December-2022

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

16.3

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2250993

SUB-BATCH: 0

30-Dec-2022

CLIENT: MOTT MACDONALD HONG KONG LIMITED

Equipment Type:

DATE OF ISSUE:

Multifunctional Meter

Brand Name/

[HORIBA]/[U-53]

Model No.: Serial No./

Equipment No.:

 $[X42XKBNO/4BHN08KG]/\left[N/A\right]$

Date of Calibration:

28-December-2022

Date of Next Calibration:

28-March-2023

PARAMETERS:

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

Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)
146.9	159	+8.2
6667	6740	+1.1
12890	13200	+2.4
58670	53800	-8.3
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.69	2.62	-0.07
5.06	5.09	+0.03
7.28	7.27	-0.01
	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	3.80	-0.20
7.0	7.00	+0.00
10.0	9.81	-0.19
	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

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WORK ORDER: HK2250993

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30-Dec-2022 **DATE OF ISSUE:**

CLIENT: MOTT MACDONALD HONG KONG LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

[HORIBA]/[U-53]

Model No.: Serial No./

Equipment No.:

[X42XKBNO/4BHN08KG]/[N/A]

Date of Calibration:

28-December-2022

Date of Next Calibration:

28-March-2023

PARAMETERS:

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	
4	3.79	-5.3
40	37.4	-6.5
80	81.4	+1.8
400	389	-2.8
800	749	-6.4
	Tolerance Limit (%)	±10.0

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	
10	9.55	-4.5
20	18.36	-8.2
30	28.22	-5.9
	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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Assistant Manager - Inorganics

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WORK ORDER: HK2250993

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Brand Name/

[HORIBA]/[U-53]

Model No.: Serial No./

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[X42XKBNO/4BHN08KG]/[N/A]

Date of Calibration:

28-December-2022

Date of Next Calibration: 28-March-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)
9.0	10.58	+1.6
22.0	21.25	-0.8
41.5	41.53	+0.0
	Tolerance Limit (°C)	±2.0

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