



ALS Technichem (HK) Pty Ltd

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR K.W. FAN
CLIENT: ENVIROTECH SERVICES CO.
ADDRESS: RM 712, 7/F, MY LOFT
9 HOI WING ROAD,
TUEN MUN, N.T. HK

WORK ORDER: HK2437680
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 17-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This report superseded any previous report(s) with same work order number.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, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [HORIBA]/ [U-53]

Serial No./ Equipment No.: [FXMONLLF]/ [N/A]

Date of Calibration: 23-September-2024

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2437680
SUB-BATCH: 0
DATE OF ISSUE: 30-Sep-2024
CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [FXMONLLF]/ [N/A]
Date of Calibration: 23-September-2024 Date of Next Calibration: 23-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	159	+8.2
6667	6980	+4.7
12890	13200	+2.4
58670	58700	+0.1
	Tolerance Limit (%)	± 10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.88	2.79	-0.09
4.59	4.54	-0.05
7.00	6.85	-0.15
	Tolerance Limit (mg/L)	± 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: HK2437680
SUB-BATCH: 0
DATE OF ISSUE: 30-Sep-2024
CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [FXMONLLF]/ [N/A]
Date of Calibration: 23-September-2024 Date of Next Calibration: 23-December-2024

PARAMETERS:

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.38	--
4	3.65	-8.8
40	42.1	+5.3
80	79.4	-0.7
400	416	+4.0
800	818	+2.3
	Tolerance Limit (%)	±10.0

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	--
10	10.22	+2.2
20	19.85	-0.7
30	30.26	+0.9
	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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2437680
SUB-BATCH: 0
DATE OF ISSUE: 30-Sep-2024
CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [FXMONLLF]/ [N/A]
Date of Calibration: 23-September-2024 Date of Next Calibration: 23-December-2024

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	13.25	+1.8
19.0	18.74	-0.3
39.5	38.15	-1.4
	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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Assistant Manager - Inorganics



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CLIENT: ENVIROTECH SERVICES CO.
ADDRESS: RM 712, 7/F, MY LOFT
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TUEN MUN, N.T. HK

WORK ORDER: HK2444040
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 25-Oct-2024
DATE OF ISSUE: 12-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: Multifunctional Meter

Service Nature: Performance Check

Scope: Conductivity, Dissolved Oxygen, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [HORIBA]/ [U-53]

Serial No./ Equipment No.: [KP23RRSM]/ [N/A]

Date of Calibration: 04-November-2024

Ms. Cheng Sin Ying, May
Senior Chemist - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2444040
SUB-BATCH: 0
DATE OF ISSUE: 12-Nov-2024
CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [KP23RRSM]/ [N/A]
Date of Calibration: 04-November-2024 Date of Next Calibration: 04-February-2025

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	148	+0.7
6667	6510	-2.4
12890	12600	-2.2
58670	57900	-1.3
	Tolerance Limit (%)	± 10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.18	2.29	+0.11
5.45	5.40	-0.05
7.69	7.53	-0.16
	Tolerance Limit (mg/L)	± 0.20

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2444040
SUB-BATCH: 0
DATE OF ISSUE: 12-Nov-2024
CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [KP23RRSM]/ [N/A]
Date of Calibration: 04-November-2024 Date of Next Calibration: 04-February-2025

PARAMETERS:

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	--
4	3.94	-1.5
40	38.3	-4.3
80	82.8	+3.5
400	383	-4.3
800	793	-0.9
	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	19.28	-3.6
30	29.09	-3.0
	Tolerance Limit (%)	±10.0

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2444040
SUB-BATCH: 0
DATE OF ISSUE: 12-Nov-2024
CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [KP23RRSM]/ [N/A]
Date of Calibration: 04-November-2024 Date of Next Calibration: 04-February-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)
10.0	11.24	+1.2
20.0	19.73	-0.3
39.0	37.50	-1.5
	Tolerance Limit (°C)	±2.0

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR IVAN LEUNG
CLIENT: ALS TECHNICHEM (HK) PTY LTD
ADDRESS: 11/F., CHUNG SHUN KNITTING CENTRE,
1-3 WING YIP STREET, KWAI CHUNG, N.T.

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

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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.

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Senior Chemist - Inorganics