



## REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	<b>BEN TAM</b>	WORK ORDER:	<b>HK2047209</b>
CLIENT:	<b>ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING</b>		
ADDRESS:	<b>RM A 20/F., GOLD KING IND BLDG, NO. 35-41 TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG KONG</b>	SUB-BATCH:	<b>0</b>
		LABORATORY:	<b>HONG KONG</b>
		DATE RECEIVED:	<b>07-Dec-2020</b>
		DATE OF ISSUE:	<b>16-Dec-2020</b>

### 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.:	YSI Professional DSS
Serial No./ Equipment No.:	17B102764/17B100758 (EQW019)
Date of Calibration:	15-December-2020

### GENERAL COMMENTS

This is the Final Report and supersedes any preliminary report with this batch number.

Ms. Lin Wai Yu, Iris  
Assistant Manager - Inorganic

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**WORK ORDER:** HK2047209  
**SUB-BATCH:** 0  
**DATE OF ISSUE:** 16-Dec-2020  
**CLIENT:** ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING

**Equipment Type:** Multifunctional Meter  
**Brand Name/ Model No.:** YSI Professional DSS  
**Serial No./ Equipment No.:** 17B102764/17B100758 (EQW019)  
**Date of Calibration:** 15-December-2020      **Date of Next Calibration:** 15-March-2021

**PARAMETERS:**

Conductivity      Method Ref: APHA (21st edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	147.3	+0.3
6667	6742	+1.1
12890	13050	+1.2
58670	54437	-7.2
	Tolerance Limit (%)	±10.0

Dissolved Oxygen      Method Ref: APHA (21st edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.77	3.71	-0.06
5.63	5.51	-0.12
8.18	8.22	+0.04
	Tolerance Limit (mg/L)	±0.20

pH Value      Method Ref: APHA (21st edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.07	+0.07
7.0	7.12	+0.12
10.0	10.01	+0.01
	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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**Date of Calibration:** 15-December-2020      **Date of Next Calibration:** 15-March-2021

**PARAMETERS:**

Turbidity      Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.18	--
4	4.08	+2.0
40	42.18	+5.5
80	79.02	-1.2
400	412.86	+3.2
800	793.47	-0.8
	<b>Tolerance Limit (%)</b>	<b>±10.0</b>

Salinity      Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	10.86	+8.6
20	21.69	+8.5
30	32.83	+9.4
	<b>Tolerance Limit (%)</b>	<b>±10.0</b>

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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)
10.5	10.3	-0.2
20.0	20.1	+0.1
39.5	39.4	-0.1
	Tolerance Limit (°C)	±2.0

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