專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED
Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BE090186
Date of Issue : 26 September 2025
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
Unit 1608, 16/F, Tower B, Manulife Fin. Centre 223 - 231 Wai Yip Street, Kwun Tong,
Kowloon (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS (Multi Parameters)
Manufacturer :	YSI
Serial Number :	22D100436
Date of Received :	19 September 2025
Date of Calibration :	25 September 2025
Date of Next Calibration :	24 December 2025
Request No. :	D-BE090186

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H^+ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Conductivity	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance (pH unit)	Result
4.00	4.00	0	Satisfactory
7.42	7.42	0	Satisfactory
10.01	10.00	-0.01	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance (°C)	Result
35.6	35.0	-0.6	Satisfactory
24.9	24.6	-0.3	Satisfactory
11.8	11.7	-0.1	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance (mg/L)	Result
7.71	7.89	0.18	Satisfactory
6.52	6.50	-0.02	Satisfactory
3.14	3.32	0.18	Satisfactory
0.02	0.08	0.06	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

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AUTHORIZED SIGNATORY:

FUNG Yuen-ching
Laboratory Manager

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(4) Conductivity

Expected Reading (µS/cm at 25°C)	Display Reading (µS/cm at 25°C)	Tolerance (%)	Result
146.9	160.1	9.0	Satisfactory
1412	1426	1.0	Satisfactory
12890	11741	-8.9	Satisfactory
58670	53841	-8.2	Satisfactory
111900	104478	-6.6	Satisfactory

Tolerance of Conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.69	-3.10	Satisfactory
20	18.93	-5.35	Satisfactory
30	30.79	2.63	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance [a] (%)	Result
0	0.36	-	Satisfactory
10	9.46	-5.4	Satisfactory
20	18.47	-7.7	Satisfactory
100	94.00	-6.0	Satisfactory
800	734.12	-8.2	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

[a] For 0 NTU, Display Reading should be less than 1 NTU

Remark(s):
1. *The "Date of Next Calibration" is set in accordance with the best practices of QPT or relevant international standards.*
2. *The calibration results apply exclusively to the equipment as received.*
3. *This report verifies the equipment's performance by testing it with independent reference material and comparing the results against a calibrated secondary standard.*
4. *"Displayed Reading" refers to the value shown on the unit under calibration, irrespective of its internal precision or significant figures.*
5. *The "Tolerance Limit" represents the acceptance criteria used by Quality Pro Test-Consult Ltd. for similar equipment, as derived from relevant international standards.*

--- END OF REPORT ---

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	JOE HO	**WORK ORDER:**	HK2543901
CLIENT:	AURECON HONG KONG LIMITED		
ADDRESS:	UNIT 1608, 16/F, TOWER B, MANULIFE FINANCIAL CENTRE, 223-231 WAI YIP STREET, KWUN TONG, HONG KONG	**SUB-BATCH:**	0
		LABORATORY:	HONG KONG
		DATE RECEIVED:	11-Oct-2025
		DATE OF ISSUE:	21-Oct-2025

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.:	[YSI]/ [ProDSS]
Serial No./ Equipment No.:	[24G101660]/ [N/A]
Date of Calibration:	17-October-2025

Ms. Cheng Sin Ying, May
Senior Chemist - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2543901

SUB-BATCH: 0
DATE OF ISSUE: 21-Oct-2025
CLIENT: AURECON HONG KONG LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [YSI]/ [ProDSS]
Serial No./ Equipment No.: [24G101660]/ [N/A]
Date of Calibration: 17-October-2025 Date of Next Calibration: 17-January-2026

PARAMETERS:

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

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	147.7	+0.5
6667	6826	+2.4
12890	12959	+0.5
58670	57401	-2.2
	Tolerance Limit (%)	±10.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.58	1.73	+0.15
5.00	4.89	-0.11
6.98	7.07	+0.09
	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	3.88	-0.12
7.0	7.09	+0.09
10.0	9.96	-0.04
	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. Cheng Sin Ying, May
Senior Chemist - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2543901

SUB-BATCH: 0
DATE OF ISSUE: 21-Oct-2025
CLIENT: AURECON HONG KONG LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [YSI]/ [ProDSS]
Serial No./ Equipment No.: [24G101660]/ [N/A]
Date of Calibration: 17-October-2025 Date of Next Calibration: 17-January-2026

PARAMETERS:

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.44	--
4	4.26	+6.5
40	37.62	-6.0
80	76.36	-4.6
400	362.64	-9.3
800	733.83	-8.3
	Tolerance Limit (%)	±10.0

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	10.15	+1.5
20	20.56	+2.8
30	29.38	-2.1
	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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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2543901

SUB-BATCH: 0
DATE OF ISSUE: 21-Oct-2025
CLIENT: AURECON HONG KONG LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [YSI]/ [ProDSS]
Serial No./ Equipment No.: [24G101660]/ [N/A]
Date of Calibration: 17-October-2025 Date of Next Calibration: 17-January-2026

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	9.6	+0.6
19.5	18.3	-1.2
39.5	38.3	-1.2
	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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