

# Appendix H

# Water Quality Monitoring Equipment

# Calibration Certificate



專業化驗有限公司  
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong  
Email: info@qualityprotest.com; Website: www.qualityprotest.com  
Tel: (852) 3956 8717; Fax: (852) 3956 3928

## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB040025  
Date of Issue : 12 April 2022  
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### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited  
Unit E, 12/F, Ford Glory Plaza 37-39 Wing  
Hong Street, Cheung Sha Wan  
Kowloon (HK) Hong Kong  
Attn :

### PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53  
Manufacturer : HORIBA  
Serial Number : S2A98W8H  
Date of Received : 08 April 2022  
Date of Calibration : 11 April 2022  
Date of Next Calibration : 10 July 2022

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
Turbidity	APHA 21e 2130B
Dissolved oxygen	APHA 21e 4500 O
pH value	APHA 21e 4500 H+
Salinity	APHA 21e 2520B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure

### PART D - CALIBRATION RESULT

#### (1) Turbidity

EXPECTED READING ( NTU )	DISPLAY READING ( NTU )	TOLERANCE ( % )	RESULT
0	0.00	--	Satisfactory
10	11.0	10.0	Satisfactory
20	19.5	-2.5	Satisfactory
100	108	8.0	Satisfactory
800	795	-0.6	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )

#### (2) Dissolved oxygen

EXPECTED READING ( MG/L )	DISPLAY READING ( MG/L )	TOLERANCE ( MG/L )	RESULT
8.23	8.39	0.16	Satisfactory
5.61	5.79	0.18	Satisfactory
4.20	4.36	0.16	Satisfactory
0.15	0.40	0.25	Satisfactory

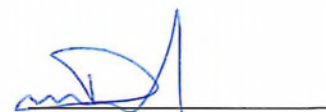
Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

#### (3) pH value

TARGET ( PH UNIT )	DISPLAY READING ( PH UNIT )	TOLERANCE	RESULT
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AUTHORIZED  
SIGNATORY:

  
LEE Chu-ning  
Assistant Manager (Chemical Testing)



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TARGET ( PH UNIT )	DISPLAY READING ( PH UNIT )	TOLERANCE	RESULT
4.00	3.99	-0.01	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	10.03	0.02	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  ( pH unit )

### (4) Salinity

EXPECTED READING ( G/L )	DISPLAY READING ( G/L )	TOLERANCE ( % )	RESULT
10	10.19	1.90	Satisfactory
20	19.96	-0.20	Satisfactory
30	28.49	-5.03	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  ( % )

### (5) Temperature

READING OF REF. THERMOMETER ( °C )	DISPLAY READING ( °C )	TOLERANCE ( °C )	RESULT
10	10.0	0.0	Satisfactory
20	19.9	-0.1	Satisfactory
48	48.0	0.0	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

### Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

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