

專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC020060
Date of Issue : 17 February 2023
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53
Manufacturer : HORIBA
Serial Number : PPHNOMXY
Date of Received : 15 February 2023
Date of Calibration : 17 February 2023
Date of Next Calibration : 16 May 2023
Request No. : D-BC020060

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) pH value

| Target (pH unit) | Display Reading (pH unit) | Tolerance | Result |
|------------------|---------------------------|-----------|--------------|
| 4.00 | 4.03 | 0.03 | Satisfactory |
| 7.42 | 7.42 | 0.00 | Satisfactory |
| 10.01 | 9.86 | -0.15 | Satisfactory |

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

(2) Temperature

| Reading of Ref. thermometer (°C) | Display Reading (°C) | Tolerance | Result |
|----------------------------------|----------------------|-----------|--------------|
| 11 | 11.36 | 0.36 | Satisfactory |
| 20 | 21.57 | 1.57 | Satisfactory |
| 35 | 34.71 | -0.29 | Satisfactory |

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

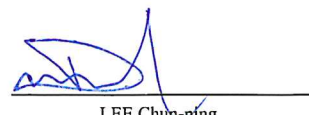
(3) Salinity

| Expected Reading (g/L) | Display Reading (g/L) | Tolerance (%) | Result |
|------------------------|-----------------------|---------------|--------------|
| 10 | 9.93 | -0.70 | Satisfactory |
| 20 | 20.62 | 3.10 | Satisfactory |
| 30 | 32.00 | 6.67 | Satisfactory |

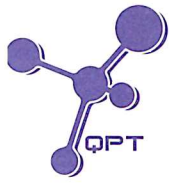
Tolerance of Salinity should be less than ± 10.0 (%)

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AUTHORIZED
SIGNATORY:



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(4) Dissolved oxygen

| Expected Reading (mg/L) | Display Reading (mg/L) | Tolerance | Result |
|-------------------------|------------------------|-----------|--------------|
| 8.57 | 8.49 | -0.08 | Satisfactory |
| 5.53 | 5.13 | -0.40 | Satisfactory |
| 2.91 | 2.66 | -0.25 | Satisfactory |
| 0.10 | 0.00 | -0.10 | Satisfactory |

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

(5) Turbidity

| Expected Reading (NTU) | Display Reading (NTU) | Tolerance (%) | Result |
|------------------------|-----------------------|---------------|--------------|
| 0 | 0.00 | -- | Satisfactory |
| 10 | 9.65 | -3.5 | Satisfactory |
| 20 | 19.5 | -2.5 | Satisfactory |
| 100 | 97.1 | -2.9 | Satisfactory |
| 800 | 780 | -2.5 | Satisfactory |

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

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from 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 from relevant international standards.

--- END OF REPORT ---