

## Appendix F Water Quality Equipment Calibration Certificate



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-BB040069  
Date of Issue : 26 April 2022  
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 (HK) Hong Kong  
Attn :

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 22C106561  
Date of Received : 21 April 2022  
Date of Calibration : 21 April 2022  
Date of Next Calibration : 20 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	0.08	--	Satisfactory
10	10.4	4.0	Satisfactory
20	20.13	0.6	Satisfactory
100	98.2	-1.8	Satisfactory
800	803.19	0.4	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)

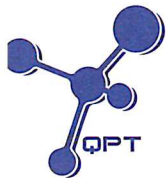
#### (3) pH value

TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
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TARGET ( PH UNIT )	DISPLAY READING ( PH UNIT )	TOLERANCE	RESULT
4.00	4.11	0.11	Satisfactory
7.42	7.50	0.08	Satisfactory
10.01	10.08	0.07	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	10.68	6.80	Satisfactory
20	21.55	7.75	Satisfactory
30	31.21	4.03	Satisfactory

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

### (5) Temperature

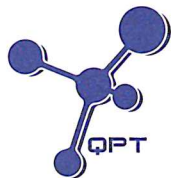
READING OF REF. THERMOMETER ( °C )	DISPLAY READING ( °C )	TOLERANCE ( °C )	RESULT
15.9	15.6	-0.3	Satisfactory
24.0	23.9	-0.1	Satisfactory
34.0	33.7	-0.3	Satisfactory

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

### Remark(s)

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- 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 ---



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB060031  
Date of Issue : 17 June 2022  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

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Kowloon (HK) Hong Kong  
Attn :

### PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53  
Manufacturer : HORIBA  
Serial Number : NEKVM2XU  
Date of Received : 15 June 2022  
Date of Calibration : 15 June 2022  
Date of Next Calibration : 14 September 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	10.70	7.0	Satisfactory
20	21.00	5.0	Satisfactory
100	109.00	9.0	Satisfactory
800	796.00	-0.5	Satisfactory

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

#### (2) Dissolved oxygen

EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE	RESULT
8.17	8.20	0.03	Satisfactory
5.58	5.50	-0.08	Satisfactory
3.53	3.30	-0.23	Satisfactory
0.08	0.00	-0.08	Satisfactory


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

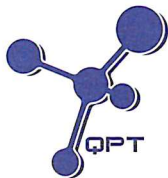
#### (3) pH value

TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB060031

Date of Issue : 17 June 2022

Page No. : 2 of 2

TARGET ( PH UNIT )	DISPLAY READING ( PH UNIT )	TOLERANCE	RESULT
4.00	4.00	0.00	Satisfactory
7.42	7.42	0.00	Satisfactory
10.01	10.16	0.15	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	9.04	-9.60	Satisfactory
20	18.93	-5.35	Satisfactory
30	29.25	-2.50	Satisfactory

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

### (5) Temperature

READING OF REF. THERMOMETER ( °C )	DISPLAY READING ( °C )	TOLERANCE	RESULT
16.0	16.07	0.07	Satisfactory
24.0	23.99	-0.01	Satisfactory
34.0	33.73	-0.27	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.
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--- END OF REPORT ---





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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB050023

Date of Issue : 13 May 2022

Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

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### PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53  
Manufacturer : HORIBA  
Serial Number : PPHNOMXY  
Date of Received : 06 May 2022  
Date of Calibration : 12 May 2022  
Date of Next Calibration : 11 August 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	--	Satisfactory
10	11.0	10.0	Satisfactory
20	20.13	0.6	Satisfactory
100	99.9	-0.1	Satisfactory
800	808	1.0	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
8.02	7.99	-0.03	Satisfactory
5.16	5.43	0.27	Satisfactory
3.74	4.21	0.47	Satisfactory
0.94	1.40	0.46	Satisfactory

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

#### (3) pH value

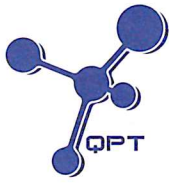
TARGET ( PH UNIT )	DISPLAY READING ( PH UNIT )	TOLERANCE	RESULT
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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB050023

Date of Issue : 13 May 2022

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TARGET ( PH UNIT )	DISPLAY READING ( PH UNIT )	TOLERANCE	RESULT
4.00	3.99	-0.01	Satisfactory
7.42	7.28	-0.14	Satisfactory
10.01	9.95	-0.06	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	10.26	2.60	Satisfactory
20	21.35	6.75	Satisfactory
30	32.54	8.47	Satisfactory

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

### (5) Temperature

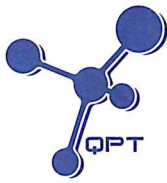
READING OF REF. THERMOMETER ( °C )	DISPLAY READING ( °C )	TOLERANCE ( °C )	RESULT
17.0	17.11	0.11	Satisfactory
24.0	23.99	-0.01	Satisfactory
34.0	33.84	-0.16	Satisfactory

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

### Remark(s)

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB030083  
Date of Issue : 21 March 2022  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

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

### PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53  
Manufacturer : HORIBA  
Serial Number : THAUKESL  
Date of Received : 15 March 2022  
Date of Calibration : 21 March 2022  
Date of Next Calibration : 20 June 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	0.01	--	Satisfactory
10	10.0	0.00	Satisfactory
20	19.9	-0.50	Satisfactory
100	104.5	4.50	Satisfactory
800	829	3.63	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
7.40	7.41	0.01	Satisfactory
3.71	3.65	-0.06	Satisfactory
1.34	1.11	-0.23	Satisfactory
0.42	0.81	0.39	Satisfactory


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

#### (3) pH value

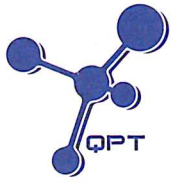
TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB030083

Date of Issue : 21 March 2022

Page No. : 2 of 2

TARGET ( PH UNIT )	DISPLAY READING ( PH UNIT )	TOLERANCE	RESULT
4.00	4.09	0.09	Satisfactory
7.42	7.43	0.01	Satisfactory
10.01	9.86	-0.15	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	10.20	2.00	Satisfactory
20	19.58	-2.10	Satisfactory
30	29.84	-0.53	Satisfactory

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

### (5) Temperature

READING OF REF. THERMOMETER ( °C )	DISPLAY READING ( °C )	TOLERANCE ( °C )	RESULT
14.5	14.96	0.46	Satisfactory
24.5	24.60	0.10	Satisfactory
40.5	39.07	-1.43	Satisfactory

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

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--- END OF REPORT ---