

Annex G1

## Calibration Certificates for Water Quality



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-BB060021  
Date of Issue : 13 June 2022  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House Yu Chui Court, Shatin  
New Territories (HK) Hong Kong  
Attn :

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 16H104233  
Date of Received : 10 June 2022  
Date of Calibration : 10 June 2022  
Date of Next Calibration : 09 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
Conductivity	APHA 21e 2510B

### PART D - CALIBRATION RESULT

#### (1) Turbidity

EXPECTED READING (NTU)	DISPLAY READING (NTU)	TOLERANCE (%)	RESULT
0	0.03	--	Satisfactory
10	9.98	-0.2	Satisfactory
20	20.16	0.8	Satisfactory
100	107.6	7.6	Satisfactory
800	796	-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
7.78	7.81	0.03	Satisfactory
4.72	4.92	0.20	Satisfactory
2.60	2.38	-0.22	Satisfactory
0.09	0.30	0.21	Satisfactory

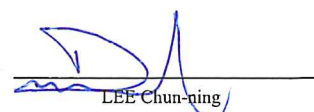
Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  (mg/L)

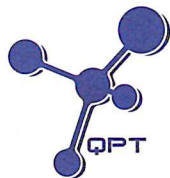
#### (3) pH value

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

  
LEE Chun-ning  
Assistant Manager (Chemical Testing)



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

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TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
4.00	3.96	-0.04	Satisfactory
7.42	7.48	0.06	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	9.92	-0.80	Satisfactory
20	20.20	1.00	Satisfactory
30	30.22	0.73	Satisfactory

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

### (5) Temperature

READING OF REF. THERMOMETER (°C)	DISPLAY READING (°C)	TOLERANCE	RESULT
10	10	0	Satisfactory
20	20	0	Satisfactory
40	40	0	Satisfactory

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

### (6) Conductivity

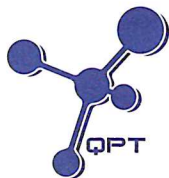
EXPECTED READING (MS/CM AT 25°C)	DISPLAY READING	TOLERANCE (%)	RESULT
146.9	137.1	-6.67	Satisfactory
1412	1328.2	-5.93	Satisfactory
12890	12567.8	-2.50	Satisfactory
58670	57574	-1.87	Satisfactory
111900	109783	-1.89	Satisfactory

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

### 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.

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Tel: (852) 3956 8717; Fax: (852) 3956 3928

## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB060020  
Date of Issue : 13 June 2022  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House Yu Chui Court, Shatin  
New Territories (HK) Hong Kong  
Attn :

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 17E100747  
Date of Received : 10 June 2022  
Date of Calibration : 10 June 2022  
Date of Next Calibration : 09 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
Conductivity	APHA 21e 2510B

### PART D - CALIBRATION RESULT

#### (1) Turbidity

EXPECTED READING (NTU)	DISPLAY READING (NTU)	TOLERANCE (%)	RESULT
0	0.03	--	Satisfactory
10	9.85	-1.5	Satisfactory
20	20.2	1.0	Satisfactory
100	108.4	8.4	Satisfactory
800	797	-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	RESULT
7.78	7.86	0.08	Satisfactory
4.72	4.91	0.19	Satisfactory
2.60	2.33	-0.27	Satisfactory
0.09	0.30	0.21	Satisfactory

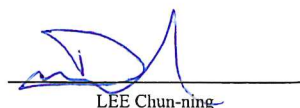
Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  (mg/L)

#### (3) pH value

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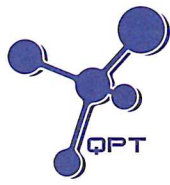
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AUTHORIZED  
SIGNATORY:



LEE Chun-ning

Assistant Manager (Chemical Testing)



## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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Date of Issue : 13 June 2022  
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TARGET ( PH UNIT )	DISPLAY READING ( PH UNIT )	TOLERANCE	RESULT
4.00	4.08	0.08	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	9.94	-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	9.90	-1.00	Satisfactory
20	19.91	-0.45	Satisfactory
30	30.29	0.97	Satisfactory

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

### (5) Temperature

READING OF REF. THERMOMETER ( °C )	DISPLAY READING ( °C )	TOLERANCE	RESULT
10	10	0	Satisfactory
20	20	0	Satisfactory
40	40	0	Satisfactory

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

### (6) Conductivity

EXPECTED READING ( MS/CM AT 25°C )	DISPLAY READING	TOLERANCE ( % )	RESULT
146.9	136.7	-6.94	Satisfactory
1412	1329.7	-5.83	Satisfactory
12890	12608.3	-2.19	Satisfactory
58670	57422	-2.13	Satisfactory
111900	109847	-1.83	Satisfactory

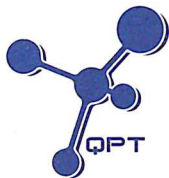
Tolerance of Conductivity should be less than  $\pm 10.0$  ( % )

### Remark(s)

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Tel: (852) 3956 8717; Fax: (852) 3956 3928

## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB070112  
Date of Issue : 28 July 2022  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House Yu Chui Court, Shatin  
New Territories (HK) Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 21G105356  
Date of Received : 28 July 2022  
Date of Calibration : 28 July 2022  
Date of Next Calibration : 27 October 2022  
Request No. : D-BB070112

### 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 2520B
Dissolved oxygen	APHA 21e 4500 O
Turbidity	APHA 21e 2130B
Conductivity	APHA 21e 2510B

### PART D - CALIBRATION RESULT

#### (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.06	0.06	Satisfactory
7.42	7.51	0.09	Satisfactory
10.01	10.09	0.08	Satisfactory

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

#### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15.0	14.9	-0.1	Satisfactory
25.0	25.1	0.1	Satisfactory
40.0	40.0	0.0	Satisfactory

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

#### (3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.92	-0.80	Satisfactory
20	20.38	1.90	Satisfactory
30	30.61	2.03	Satisfactory

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

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AUTHORIZED  
SIGNATORY:

LEE Chun-ning  
Assistant Manager (Chemical Testing)



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-BB070112

Date of Issue : 28 July 2022

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.36	7.56	0.20	Satisfactory
5.52	5.63	0.11	Satisfactory
2.82	3.00	0.18	Satisfactory
0.11	0.30	0.19	Satisfactory

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

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance ( % )	Result
0	0.05	--	Satisfactory
10	9.83	-1.70	Satisfactory
20	19.04	-4.80	Satisfactory
100	97.83	-2.20	Satisfactory
800	817.37	2.20	Satisfactory

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

### (6) Conductivity

Expected Reading ( $\mu\text{S/cm at } 25^\circ\text{C}$ )	Display Reading ( $\mu\text{S/cm at } 25^\circ\text{C}$ )	Tolerance ( % )	Result
146.9	151.1	2.86	Satisfactory
1412	1283	-9.14	Satisfactory
12890	12734	-1.21	Satisfactory
58670	59111	0.75	Satisfactory
111900	113325	1.27	Satisfactory

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

### Remark(s)

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