Location : ASR 5
Calibrated by : P.F.Yeung
Date : 09/10/2017

Sampler

Model : TE-5170 Serial Number : S/N 0816

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 :
 20 March 2017

 Slope (m)
 :
 2.08464

 Intercept (b)
 :
 -0.036840

 Correlation Coefficient(r)
 :
 0.99994

Standard Condition

Pstd (hpa) : 1013 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1009 Ta(K) : 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	10.0	3.135	1.522	54	53.54
2	13 holes	8.0	2.804	1.363	49	48.58
3	10 holes	5.8	2.388	1.163	43	42.63
4	7 holes	3.8	1.933	0.945	38	37.67
5	5 holes	2.5	1.568	0.770	30	29.74

 $Notes: Z = SQRT\{dH(Pa/Pstd)(Tstd/Ta)\}, \ X = Z/m-b \ , Y(Corrected \ Flow) = IC*\{SQRT(Pa/Pstd)(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m):30.353 Intercept(b):7.454 Correlation Coefficient(r): 0.9947

Location : ASR10
Calibrated by : P.F.Yeung
Date : 09/10/2017

Sampler

Model : TE-5170 Serial Number : S/N 8162

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 :
 20 March 2017

 Slope (m)
 :
 2.08464

 Intercept (b)
 :
 -0.036840

 Correlation Coefficient(r)
 :
 0.99994

Standard Condition

Pstd (hpa) : 1013 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1009 Ta(K) : 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11	3.288	1.595	57	56.51
2	13 holes	8	2.804	1.363	50	49.57
3	10 holes	6	2.428	1.183	44	43.62
4	7 holes	4.2	2.032	0.992	37	36.68
5	5 holes	2.8	1.659	0.813	29	28.75

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m): 35.265 Intercept(b): 1.089 Correlation Coefficient(r): 0.9968

Location : AQMS1
Calibrated by : P.F.Yeung
Date : 09/10/2017

Sampler

 Model
 :
 TE-5170

 Serial Number
 :
 S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 :
 20 March 2017

 Slope (m)
 :
 2.08464

 Intercept (b)
 :
 -0.036840

 Correlation Coefficient(r)
 :
 0.99994

Standard Condition

Pstd (hpa) : 1013 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1009 Ta(K) : 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.7	3.533	1.712	51	50.56
2	13 holes	9.3	3.023	1.468	45	44.61
3	10 holes	7.6	2.733	1.329	40	39.66
4	7 holes	4.8	2.172	1.060	34	33.71
5	5 holes	3.1	1.746	0.855	28	27.76

 $Notes: Z = SQRT\{dH(Pa/Pstd)(Tstd/Ta)\}, \ X = Z/m-b \ , Y(Corrected \ Flow) = IC*\{SQRT(Pa/Pstd)(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m):26.496 Intercept(b):5.218 Correlation Coefficient(r): 0.9984

Location : ASR 1
Calibrated by : P.F.Yeung
Date : 09/10/2017

Sampler

Model : TE-5170 Serial Number : S/N 0146

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 20 March 2017

 Slope (m)
 : 2.08464

 Intercept (b)
 : -0.036840

 Correlation Coefficient(r)
 : 0.99994

Standard Condition

Pstd (hpa) : 1013 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1009 Ta(K) : 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.7	3.391	1.644	52	51.55
2	13 holes	9.6	3.072	1.491	47	46.60
3	10 holes	6.2	2.469	1.202	42	41.64
4	7 holes	4.2	2.032	0.992	34	33.71
5	5 holes	2.6	1.599	0.785	29	28.75

 $Notes: Z = SQRT\{dH(Pa/Pstd)(Tstd/Ta)\}, X = Z/m-b, Y(Corrected\ Flow) = IC*\{SQRT(Pa/Pstd)(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 26.214 Intercept(b): 8.393 correlation Coefficient(r): 0.9937

Location : ASR 6
Calibrated by : P.F.Yeung
Date : 09/10/2017

Sampler

 Model
 :
 TE-5170

 Serial Number
 :
 S/N 3957

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 20 March 2017

 Slope (m)
 : 2.08464

 Intercept (b)
 : -0.036840

 Correlation Coefficient(r)
 : 0.99994

Standard Condition

Pstd (hpa) : 1013 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1009 Ta(K) : 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.3	3.477	1.686	54	53.54
2	13 holes	9.0	2.974	1.444	48	47.59
3	10 holes	7.0	2.623	1.276	42	41.64
4	7 holes	4.5	2.103	1.027	35	34.70
5	5 holes	2.8	1.659	0.813	27	26.77

 $Notes: Z = SQRT\{dH(Pa/Pstd)(Tstd/Ta)\}, \ X = Z/m-b \ , Y(Corrected \ Flow) = IC*\{SQRT(Pa/Pstd)(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m):30.676 Intercept(b): 2.526 Correlation Coefficient(r): 0.9977

ENVIROTECH SERVICES CO.

Calibration Report of Wind Meter

Date of Calibration:	18 October 2017	

Brand of Test Meter: Davis

Model: Vantage Pro 2 (s/n: AS160104014)

Location : Roof of Tuen Mun Firestation

Procedures:

1. Wind Still Test : The wind speed sensor was hold by hand until it keep still

2. Wind Speed Test : The wind meter was on-site calibrated against the Anemometer

3. Wind Direction Test: The wind meter was on-site calibrated against the marine compass at four directions

Results:

Wind Still Test

Wind Speed (m/s)	
0.00	

Wind Speed Test

Davis (m/s)	Anemometer (m/s)
0.7	0.8
1.2	1.4
2.5	2.8

Wind Direction Test

Davis (o)	Marine Compass (o)
272	270
1	0
91	90
181	180

Calibrated by:

Yeung Ping Fai

(Technical Officer)

Checked by:

Ho Kam Fat

(Senior Technical Officer)



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.: C175727

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC17-2277)

Date of Receipt / 收件日期: 3 October 2017

Description / 儀器名稱

Anemometer

Manufacturer / 製造商

Lutron

Model No. / 型號

AM-4201

Serial No. / 編號

AF.27513

Supplied By / 委託者

Envirotech Services Co.

Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,

New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

13 October 2017

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- Testo Industrial Services GmbH, Germany

Tested By

測試

H C Chan

Engineer

Certified By

核證

K C Lee

Date of Issue 簽發日期

16 October 2017

Engineer

The test equipment used for c ration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this labor

本證書所載校正用之測試器材均可溯源至國際標準。 局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所 c o 香港新界屯門興安里 - 號青山灣機樓四樓

Tel 電話: 2927 2606 Fax 傳真: 2744 8986

E-mail 電郵: callab a suncreation.com Website 網址: www.suncreation.com

Page 1 of 2



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.: C175727

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 10 measurements at each calibration point.

3. Test equipment:

Equipment ID CL386

Description

Multi-function Measuring Instrument

Certificate No.

S16493

4. Test procedure: MA130N.

5. Results:

Air Velocity

Applied	UUT		Measured Correction	
Value	Reading	Value	Measurement Unce	ertainty
(m/s)	(m/s)	(m/s)	Expanded Uncertainty (m/s)	Coverage Factor
1.9	1.7	+0.2	0.2	2.0
4.0	3.8	+0.2	0.2	2.0
6.0	5.9	+0.1	0.3	2.0
8.0	8.0	0.0	0.3	2.0
10.0	10.1	-0.1	0.4	2.0

Remarks: - The Measured Corrections are defined as: Value = Applied Value - UUT Reading

- The expanded uncertainties are for a level of confidence of 95 %.

Note:

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



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

Report No.

AG080100

Date of Issue

18 August 2017

Page No.

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Rm 811, Hin Pui House,

Hin Keng Estate, Tai Wai

New Territories, Hong Kong

Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDss (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

16J101715

Date of Received

17 Aug, 2017

Date of Calibration

17 Aug, 2017

Date of Next Calibration^(a)

17 Nov, 2017

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H⁺ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity Turbidity APHA 21e 2520 B

Temperature

APHA 21e 2130 B Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance(e)(pH Unit)	Results
4.00	4.05	+0.05	Satisfactory
7.42	7.42	+0.00	Satisfactory
10.01	10.05	-0.04	Satisfactory

Tolerance of pH should be less than ± 0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
15.0	14.9	-0.1	Satisfactory
26.0	25.8	-0.2	Satisfactory
34.0	33.8	-0.2	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

(b) The results relate only to the calibrated equipment as received

(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

(d) "Displayed Reading" denotes the figure shown on item under calibration/checking regardless of equipment precision or significant figures.

(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted form relevant international standards.

APPROVED SIGNATORY:



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

Report No.

AG080100

Date of Issue

: 18 August 2017

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.03	0.08	+0.05	Satisfactory
4.01	4.09	+0.08	Satisfactory
7.95	7.91	-0.04	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.20 (mg/L)

(4) Conductivity at 25°C

Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
146.9	143.7	-2.2	Satisfactory
1412	1488	+5.4	Satisfactory
12890	12275	-4.8	Satisfactory
58670	57357	-2.2	Satisfactory
111900	113226	+1.2	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.14	+1.4	Satisfactory
20	20.20	+1.0	Satisfactory
30	30.37	+1.2	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading(f) (NTU)	Tolerance(g)(%)	Results
0			Satisfactory
10	10.1	+1.0	Satisfactory
20	20.6	+3.0	Satisfactory
100	104.5	+4.5	Satisfactory
800	817.6	+2.2	Satisfactory

Tolerance limit of turbidity should be less than ±10.0 (%)

~ END OF REPORT ~

[&]quot;Displayed Reading" presents the figures 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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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

Report No.

AG080099

Date of Issue

18 August 2017

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Rm 811, Hin Pui House, Hin Keng Estate, Tai Wai New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

17E102520

Date of Received

17 Aug, 2017

Date of Calibration

17 Aug, 2017 17 Aug, 2017

Date of Next Calibration^(a)

17 Nov, 2017

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H⁺ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.03	+0.03	Satisfactory
7.42	7.39	-0.03	Satisfactory
10.01	9.96	-0.05	Satisfactory

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer	Displayed Reading (°C)	Tolerance (°C)	Results
15.0	15.0	+0.0	Satisfactory
26.0	25.8	-0.2	Satisfactory
34.0	33.8	-0.8	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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(b) The results relate only to the calibrated equipment as received

(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted form relevant international standards.

APPROVED SIGNATORY:



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

Report No.

AG080099

Date of Issue

18 August 2017

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.03	0.09	+0.05	Satisfactory
4.01	3.95	-0.06	Satisfactory
7.95	7.93	-0.02	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.20 (mg/L)

(4) Conductivity at 25°C

Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
146.9	150.2	+2.2	Satisfactory
1412	1423	+0.8	Satisfactory
12890	12621	-2.1	Satisfactory
58670	57379	-2.2	Satisfactory
111900	112124	+0.2	Satisfactory

Tolerance limit of conductivity should be less than ±10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.08	+0.8	Satisfactory
20	20.24	+1.2	Satisfactory
30	30.42	+1.4	Satisfactory

Tolerance limit of salinity should be less than ±10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading(f) (NTU)	Tolerance(g)(%)	Results
0	0		Satisfactory
10	10.2	+2.0	Satisfactory
20	21.1	+5.5	Satisfactory
100	106.4	+6.4	Satisfactory
800	820.1	+2.5	Satisfactory

Tolerance limit of turbidity should be less than ±10.0 (%)

~ END OF REPORT ~

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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 form relevant international standards.



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

Report No.

AG110096

Date of Issue

16 November 2017

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1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Rm 811, Hin Pui House, Hin Keng Estate, Tai Wai New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

16J101715

Date of Received

Nov 15, 2017

Date of Calibration

Nov 15, 2017 to Nov 15, 2017

Date of Next Calibration(a)

Feb 15, 2018

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H⁺ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.03	+0.03	Satisfactory
7.42	7.44	+0.02	Satisfactory
10.01	10.03	+0.02	Satisfactory

Tolerance of pH should be less than ± 0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
14.3	14.4	0.1	Satisfactory
23.4	23.4	0	Satisfactory
33.5	33.3	-0.2	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

(d) "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 QPT or quoted form relevant international standards.

APPROVED SIGNATORY:



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

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AG110096

Date of Issue

16 November 2017

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0	0.05	0.05	Satisfactory
3.54	3.60	0.06	Satisfactory
8.20	8.18	-0.02	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	148.2	+0.9	Satisfactory
0.01	1412	1450	+2.7	Satisfactory
0.1	12890	13185	+2.3	Satisfactory
0.5	58670	59600	+1.6	Satisfactory
1.0	111900	111072	-0.7	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.8	-2.0	Satisfactory
20	19.73	-1.4	Satisfactory
30	30.31	+1.0	Satisfactory

Tolerance limit of salinity should be less than ±10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.01	(8.2)	
4	4	0.0	Satisfactory
20	20.5	+2.5	Satisfactory
100	106.2	+6.2	Satisfactory
800	834	+4.3	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

[&]quot;Displayed Reading" presents the figures 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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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Rm 811, Hin Pui House, Hin Keng Estate, Tai Wai

New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

17E102520

Date of Received

Nov 15, 2017

Date of Calibration

Nov 15, 2017 to Nov 15, 2017

Date of Next Calibration(a)

Feb 15, 2018

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>

Reference Method

pH at 25°C

APHA 21e 4500-H⁺ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.01	+0.01	Satisfactory
7.42	7.39	-0.03	Satisfactory
10.01	10.01	0.00	Satisfactory

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
14.3	14.6	+0.3	Satisfactory
23.4	23.3	-0.1	Satisfactory
33.5	33.2	-0.3	Satisfactory

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

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Remark(s): -

(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

(b) The results relate only to the calibrated equipment as received

(c) 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 QPT or quoted form relevant international standards.

APPROVED SIGNATORY:



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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0	0.06	+0.06	Satisfactory
3.54	3.51	-0.03	Satisfactory
8.20	8.17	-0.03	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	142.4	-3.1	Satisfactory
0.01	1412	1454	+3.0	Satisfactory
0.1	12890	12482	-3.2	Satisfactory
0.5	58670	58120	-0.9	Satisfactory
1.0	111900	108720	-2.8	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.8	-2.0	Satisfactory
20	20.08	+0.4	Satisfactory
30	30.71	+2.4	Satisfactory

Tolerance limit of salinity should be less than ±10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0	4.5.5	
4	4	0.0	Satisfactory
20	21.8	+9.0	Satisfactory
100	107.4	+7.4	Satisfactory
800	826	+3.3	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

[&]quot;Displayed Reading" presents the figures 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.