

## **Appendix E. Calibration Certificates**



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030054  
Date of Issue : 12 March 2020  
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### PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House,  
Yu Chui Court, Shatin  
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 : 17E100747  
Date of Received : Mar 11, 2020  
Date of Calibration : Mar 11, 2020  
Date of Next Calibration<sup>(a)</sup> : Jun 10, 2020

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

| <u>Parameter</u>     | <u>Reference Method</u>   |
|----------------------|---|
| pH at 25°C           | APHA 21e 4500-H <sup>+</sup> B  |
| Dissolved Oxygen     | APHA 21e 4500-O G   |
| 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<br>Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

### PART D – CALIBRATION RESULTS<sup>(b,c)</sup>

#### (1) pH at 25°C

| Target (pH unit) | Displayed Reading <sup>(d)</sup> (pH Unit) | Tolerance <sup>(e)</sup> (pH Unit) | Results      |
|------------------|--|------------------------------------|--------------|
| 4.00             | 4.04                                       | 0.04                               | Satisfactory |
| 7.42             | 7.38                                       | -0.04                              | Satisfactory |
| 10.01            | 10.04                                      | 0.03                               | Satisfactory |

Tolerance of pH should be less than  $\pm 0.20$  (pH unit)

#### (2) Temperature

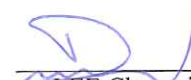
| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results      |
|----------------------------------|------------------------|----------------|--------------|
| 10.0                             | 10.2                   | 0.2            | Satisfactory |
| 26.0                             | 26.6                   | 0.6            | Satisfactory |
| 47.0                             | 47.4                   | 0.4            | Satisfactory |

Tolerance limit of temperature should be less than  $\pm 2.0$  (°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 from 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 referenced to YSI product specifications.

  
LEE Chun-ning, Desmond  
Senior Chemist



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QUALITY PRO TEST-CONSULT LIMITED

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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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      |
|-------------------------|--------------------------|------------------|--------------|
| 0.38                    | 0.48                     | 0.10             | Satisfactory |
| 4.44                    | 4.50                     | 0.06             | Satisfactory |
| 6.78                    | 6.68                     | -0.10            | Satisfactory |
| 8.54                    | 8.62                     | 0.08             | Satisfactory |

Tolerance limit of dissolved oxygen should be less than  $\pm 0.50$  (mg/L)

#### (4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading ( $\mu\text{S}/\text{cm}$ ) | Displayed Reading ( $\mu\text{S}/\text{cm}$ ) | Tolerance (%) | Results      |
|------------------|--|---|---------------|--------------|
| 0.001            | 146.9  | 148.2   | 0.88          | Satisfactory |
| 0.01             | 1412   | 1386  | -1.84         | Satisfactory |
| 0.1              | 12890  | 12436   | -3.52         | Satisfactory |
| 0.5              | 58670  | 57314   | -2.31         | Satisfactory |
| 1.0              | 111900                                       | 111048  | -0.76         | Satisfactory |

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

#### (5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results      |
|------------------------|-------------------------|---------------|--------------|
| 10                     | 9.99                    | -0.10         | Satisfactory |
| 20                     | 20.16                   | 0.80          | Satisfactory |
| 30                     | 30.28                   | 0.93          | Satisfactory |

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

#### (6) Turbidity

| Expected Reading (NTU) | Displayed Reading <sup>(a)</sup> (NTU) | Tolerance <sup>(a)</sup> (%) | Results      |
|------------------------|--|------------------------------|--------------|
| 0                      | 0.06                                   | --                           | Satisfactory |
| 10                     | 10.34                                  | 3.4                          | Satisfactory |
| 20                     | 20.32                                  | 1.6                          | Satisfactory |
| 100                    | 92.4                                   | -7.6                         | Satisfactory |
| 800                    | 801.6                                  | 0.2                          | Satisfactory |

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

~ END OF REPORT ~

#### Remark(s): -

<sup>(a)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(b)</sup> 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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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030056  
Date of Issue : 12 March 2020  
Page No. : 1 of 2

### PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House,  
Yu Chui Court, Shatin  
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 : 18A104824  
Date of Received : Mar 11, 2020  
Date of Calibration : Mar 11, 2020  
Date of Next Calibration<sup>(a)</sup> : Jun 10, 2020

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

| Parameter            | Reference Method  |
|----------------------|---|
| pH at 25°C           | APHA 21e 4500-H <sup>+</sup> B  |
| Dissolved Oxygen     | APHA 21e 4500-O G   |
| 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<br>Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

### PART D – CALIBRATION RESULTS<sup>(b,c)</sup>

#### (1) pH at 25°C

| Target (pH unit) | Displayed Reading <sup>(d)</sup> (pH Unit) | Tolerance <sup>(e)</sup> (pH Unit) | Results      |
|------------------|--|------------------------------------|--------------|
| 4.00             | 4.06                                       | 0.06                               | Satisfactory |
| 7.42             | 7.40                                       | -0.02                              | Satisfactory |
| 10.01            | 10.10                                      | 0.09                               | Satisfactory |

Tolerance of pH should be less than  $\pm 0.20$  (pH unit)

#### (2) Temperature


| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results      |
|----------------------------------|------------------------|----------------|--------------|
| 10.0                             | 10.5                   | 0.5            | Satisfactory |
| 26.0                             | 26.1                   | 0.1            | Satisfactory |
| 47.0                             | 46.2                   | -0.8           | Satisfactory |

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

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#### Remark(s): -

- <sup>(a)</sup> The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.  
<sup>(b)</sup> The results relate only to the calibrated equipment as received  
<sup>(c)</sup> The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.  
<sup>(d)</sup> "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.  
<sup>(e)</sup> The "Tolerance Limit" mentioned is referenced to YSI product specifications.

  
LEE Chun-ning, Desmond  
Senior Chemist



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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Date of Issue : 12 March 2020  
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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      |
|-------------------------|--------------------------|------------------|--------------|
| 0.38                    | 0.42                     | 0.04             | Satisfactory |
| 4.44                    | 4.51                     | 0.07             | Satisfactory |
| 6.78                    | 6.78                     | 0.00             | Satisfactory |
| 8.54                    | 8.72                     | 0.18             | Satisfactory |

Tolerance limit of dissolved oxygen should be less than  $\pm 0.50$  (mg/L)

#### (4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading ( $\mu\text{S}/\text{cm}$ ) | Displayed Reading ( $\mu\text{S}/\text{cm}$ ) | Tolerance (%) | Results      |
|------------------|--|---|---------------|--------------|
| 0.001            | 146.9  | 145.8   | -0.75         | Satisfactory |
| 0.01             | 1412   | 1356  | -3.97         | Satisfactory |
| 0.1              | 12890  | 12176   | -5.54         | Satisfactory |
| 0.5              | 58670  | 56438   | -3.80         | Satisfactory |
| 1.0              | 111900                                       | 110819  | -0.97         | Satisfactory |

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

#### (5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results      |
|------------------------|-------------------------|---------------|--------------|
| 10                     | 10.00                   | 0.00          | Satisfactory |
| 20                     | 20.54                   | 2.70          | Satisfactory |
| 30                     | 30.72                   | 2.40          | Satisfactory |

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

#### (6) Turbidity

| Expected Reading (NTU) | Displayed Reading <sup>(f)</sup> (NTU) | Tolerance <sup>(g)</sup> (%) | Results      |
|------------------------|--|------------------------------|--------------|
| 0                      | 0.02                                   | --                           | Satisfactory |
| 10                     | 10.36                                  | 3.6                          | Satisfactory |
| 20                     | 20.82                                  | 4.1                          | Satisfactory |
| 100                    | 106.4                                  | 6.4                          | Satisfactory |
| 800                    | 812.4                                  | 1.6                          | Satisfactory |

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

~ END OF REPORT ~

**Remark(s): -**

<sup>(f)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(g)</sup> 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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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030055  
Date of Issue : 12 March 2020  
Page No. : 1 of 2

### PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House,  
Yu Chui Court, Shatin  
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 : 16H104234  
Date of Received : Mar 11, 2020  
Date of Calibration : Mar 11, 2020  
Date of Next Calibration<sup>(a)</sup> : Jun 10, 2020

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

| <u>Parameter</u>     | <u>Reference Method</u>   |
|----------------------|---|
| pH at 25°C           | APHA 21e 4500-H <sup>+</sup> B  |
| Dissolved Oxygen     | APHA 21e 4500-O G   |
| 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<br>Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

### PART D – CALIBRATION RESULTS<sup>(b,c)</sup>

#### (1) pH at 25°C

| Target (pH unit) | Displayed Reading <sup>(d)</sup> (pH Unit) | Tolerance <sup>(e)</sup> (pH Unit) | Results      |
|------------------|--|------------------------------------|--------------|
| 4.00             | 4.02                                       | 0.02                               | Satisfactory |
| 7.42             | 7.44                                       | 0.02                               | Satisfactory |
| 10.01            | 10.02                                      | 0.01                               | Satisfactory |

Tolerance of pH should be less than  $\pm 0.20$  (pH unit)

#### (2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results      |
|----------------------------------|------------------------|----------------|--------------|
| 10.0                             | 10.4                   | 0.4            | Satisfactory |
| 26.0                             | 26.0                   | 0.0            | Satisfactory |
| 47.0                             | 47.4                   | 0.4            | Satisfactory |

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

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#### Remark(s): -

- <sup>(a)</sup> The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.  
<sup>(b)</sup> The results relate only to the calibrated equipment as received  
<sup>(c)</sup> The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.  
<sup>(d)</sup> "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.  
<sup>(e)</sup> The "Tolerance Limit" mentioned is referenced to YSI product specifications.

LEE Chun-ning, Desmond  
Senior Chemist



## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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Date of Issue : 12 March 2020  
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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      |
|-------------------------|--------------------------|------------------|--------------|
| 0.38                    | 0.39                     | 0.01             | Satisfactory |
| 4.44                    | 4.53                     | 0.09             | Satisfactory |
| 6.78                    | 6.70                     | -0.08            | Satisfactory |
| 8.54                    | 8.74                     | 0.20             | Satisfactory |

Tolerance limit of dissolved oxygen should be less than  $\pm 0.50$  (mg/L)

#### (4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading ( $\mu\text{S/cm}$ ) | Displayed Reading ( $\mu\text{S/cm}$ ) | Tolerance (%) | Results      |
|------------------|---------------------------------------|--|---------------|--------------|
| 0.001            | 146.9                                 | 151.0                                  | 2.79          | Satisfactory |
| 0.01             | 1412                                  | 1357                                   | -3.90         | Satisfactory |
| 0.1              | 12890                                 | 11982                                  | -7.04         | Satisfactory |
| 0.5              | 58670                                 | 56432                                  | -3.81         | Satisfactory |
| 1.0              | 111900                                | 110782                                 | -1.00         | Satisfactory |

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

#### (5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results      |
|------------------------|-------------------------|---------------|--------------|
| 10                     | 10.00                   | 0.00          | Satisfactory |
| 20                     | 20.36                   | 1.80          | Satisfactory |
| 30                     | 30.56                   | 1.87          | Satisfactory |

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

#### (6) Turbidity

| Expected Reading (NTU) | Displayed Reading <sup>(f)</sup> (NTU) | Tolerance <sup>(g)</sup> (%) | Results      |
|------------------------|--|------------------------------|--------------|
| 0                      | 0.00                                   | --                           | Satisfactory |
| 10                     | 10.24                                  | 2.4                          | Satisfactory |
| 20                     | 21.20                                  | 6.0                          | Satisfactory |
| 100                    | 94.6                                   | -5.4                         | Satisfactory |
| 800                    | 792.4                                  | -1.0                         | Satisfactory |

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

~ END OF REPORT ~

**Remark(s): -**

<sup>(f)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(g)</sup> 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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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030057  
Date of Issue : 12 March 2020  
Page No. : 1 of 2

### PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House,  
Yu Chui Court, Shatin  
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 : 17H105557  
Date of Received : Mar 11, 2020  
Date of Calibration : Mar 11, 2020  
Date of Next Calibration<sup>(a)</sup> : Jun 10, 2020

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

| <u>Parameter</u>     | <u>Reference Method</u>   |
|----------------------|---|
| pH at 25°C           | APHA 21e 4500-H <sup>+</sup> B  |
| Dissolved Oxygen     | APHA 21e 4500-O G   |
| 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<br>Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

### PART D – CALIBRATION RESULTS<sup>(b,c)</sup>

#### (1) pH at 25°C

| Target (pH unit) | Displayed Reading <sup>(d)</sup> (pH Unit) | Tolerance <sup>(e)</sup> (pH Unit) | Results      |
|------------------|--|------------------------------------|--------------|
| 4.00             | 4.00                                       | 0.00                               | Satisfactory |
| 7.42             | 7.38                                       | -0.04                              | Satisfactory |
| 10.01            | 10.09                                      | 0.08                               | Satisfactory |

Tolerance of pH should be less than  $\pm 0.20$  (pH unit)

#### (2) Temperature


| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results      |
|----------------------------------|------------------------|----------------|--------------|
| 10.0                             | 10.2                   | 0.2            | Satisfactory |
| 26.0                             | 26.6                   | 0.6            | Satisfactory |
| 47.0                             | 47.6                   | 0.6            | Satisfactory |

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

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#### Remark(s): -

- <sup>(a)</sup> The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.  
<sup>(b)</sup> The results relate only to the calibrated equipment as received  
<sup>(c)</sup> The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.  
<sup>(d)</sup> "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.  
<sup>(e)</sup> The "Tolerance Limit" mentioned is referenced to YSI product specifications.

  
LEE Chun-ning, Desmond  
Senior Chemist





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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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Date of Issue : 12 March 2020  
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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      |
|-------------------------|--------------------------|------------------|--------------|
| 0.38                    | 0.41                     | 0.03             | Satisfactory |
| 4.44                    | 4.50                     | 0.06             | Satisfactory |
| 6.78                    | 6.75                     | -0.03            | Satisfactory |
| 8.54                    | 8.69                     | 0.15             | Satisfactory |

Tolerance limit of dissolved oxygen should be less than  $\pm 0.50$  (mg/L)

#### (4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading ( $\mu\text{S}/\text{cm}$ ) | Displayed Reading ( $\mu\text{S}/\text{cm}$ ) | Tolerance (%) | Results      |
|------------------|--|---|---------------|--------------|
| 0.001            | 146.9  | 147.7   | 0.54          | Satisfactory |
| 0.01             | 1412   | 1467  | 3.90          | Satisfactory |
| 0.1              | 12890  | 12767   | -0.95         | Satisfactory |
| 0.5              | 58670  | 59526   | 1.46          | Satisfactory |
| 1.0              | 111900                                       | 110742  | -1.03         | Satisfactory |

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

#### (5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results      |
|------------------------|-------------------------|---------------|--------------|
| 10                     | 9.98                    | -0.20         | Satisfactory |
| 20                     | 20.48                   | 2.40          | Satisfactory |
| 30                     | 30.84                   | 2.80          | Satisfactory |

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

#### (6) Turbidity

| Expected Reading (NTU) | Displayed Reading <sup>(f)</sup> (NTU) | Tolerance <sup>(g)</sup> (%) | Results      |
|------------------------|--|------------------------------|--------------|
| 0                      | 0.18                                   | --                           | Satisfactory |
| 10                     | 10.14                                  | 1.4                          | Satisfactory |
| 20                     | 19.66                                  | -1.7                         | Satisfactory |
| 100                    | 105.4                                  | 5.4                          | Satisfactory |
| 800                    | 792.6                                  | -0.9                         | Satisfactory |

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

~ END OF REPORT ~

**Remark(s): -**

<sup>(f)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(g)</sup> 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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## CALIBRATION REPORT

Test Report No. : AJ030007  
Date of Issue : 05 March 2020  
Page No. : 1 of 2

### PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House,  
Yu Chui Court, Shatin,  
New Territories, Hong Kong  
Attn: Mr. Thomas Wong

### PART B – SAMPLE INFORMATION

Description of Samples : Titrette® bottle-top burette, 50mL  
Brand Name : BRAND  
Model Number : 1224B90  
Serial Number : 10N60623  
Date of Received : Mar 02, 2020  
Date of Calibration : Mar 05, 2020  
Date of Next Calibration<sup>(a)</sup> : Jun 05, 2020


### PART C – CALIBRATION REQUESTED

| <u>Parameter</u> | <u>Reference Method</u>              |
|------------------|--------------------------------------|
| Accuracy Test    | In-house Method (Gravimetric Method) |

~ Continued On Next Page ~

Remark(s): -

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

  
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## CALIBRATION REPORT

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### PART D – RESULT<sup>(b),(c)</sup>

Water temperature: 23.0°C

Environmental conditions of the calibration:

Relative humidity: 62%

Z-Factor: 1.0023

Nominal volume: 3.0ml

| Trial                 | Range: (1-4) | Range: (16-19) | Range: (23-26) | Range: (34-37) | Range: (42-45) |
|-----------------------|--------------|----------------|----------------|----------------|----------------|
| 1                     | 2.9659       | 2.9869         | 2.9688         | 2.9698         | 2.9715         |
| 2                     | 2.9667       | 2.9715         | 2.9725         | 2.9652         | 2.9797         |
| 3                     | 2.9742       | 2.9643         | 2.9697         | 2.9997         | 2.9622         |
| 4                     | 2.9746       | 2.9817         | 2.9716         | 2.9677         | 2.9675         |
| 5                     | 2.9788       | 2.9812         | 2.9800         | 2.9791         | 2.9751         |
| 6                     | 2.9852       | 2.9554         | 2.9912         | 2.9612         | 2.9811         |
| 7                     | 2.9743       | 2.9820         | 2.9877         | 2.9815         | 2.9670         |
| 8                     | 2.9681       | 2.9655         | 2.9796         | 2.9716         | 2.9746         |
| 9                     | 2.9715       | 2.9999         | 2.9812         | 2.9871         | 2.9699         |
| 10                    | 2.9679       | 2.9762         | 2.9618         | 2.9755         | 2.9712         |
| Average (g)           | 2.9727       | 2.9765         | 2.9764         | 2.9758         | 2.9720         |
| Standard deviation    | 0.0061       | 0.0128         | 0.0091         | 0.0115         | 0.0058         |
| Converted volume (mL) | 2.9836       | 2.9874         | 2.9873         | 2.9868         | 2.9829         |
| Error (%)             | -0.5457      | -0.4207        | -0.4222        | -0.4413        | -0.5704        |
| RSD (%)               | 0.2029       | 0.4286         | 0.3050         | 0.3845         | 0.1952         |

### Acceptance Criteria<sup>(d)</sup>

|                   |       |       |       |       |       |
|-------------------|-------|-------|-------|-------|-------|
| Accuracy (%Error) | < ±1% | < ±1% | < ±1% | < ±1% | < ±1% |
| Precision (%RSD)  | < 1%  | < 1%  | < 1%  | < 1%  | < 1%  |

~ END OF REPORT ~

Remark(s): -

<sup>(b)</sup> The results relate only to the tested sample as received

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

<sup>(d)</sup> The "acceptance criteria" is applicable for similar equipment used by QPT or quoted from relevant international standards.