



Internal Calibration Report of Turbidimeter

Equipment Ref. No. : ET / 0505 / 002

Manufacturer : HACH

Model No. : 2100 P

Serial No. : 930900003728

Date of Calibration : 27 / 1 / 06

Calibration Due : 28 / 1 / 06

Data

| (4.95) | (49.0) | (409) |
|--------------------------|----------------------------|------------------------------|
| 0 - 10 NTU Gelex Vial | 10 - 100 NTU Gelex Vial | 100 - 1000 NTU Gelex Vial |
| 4.93 | 48.5 | 405 |

The equipment complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use.

* Delete as appropriate

Calibrated by : pk

Approved by : [Signature]



Performance Check of Salinity Meter

Equipment Ref. No. : ET 10527/001 Manufacturer : YSI

Model No. : Model 30 Serial No. : 9961183

Date of Calibration : 27/1/06 Due Date : 28/4/06

Ref. No. of Salinity Standard used (30ppt) : J 196A

| Salinity Standard (ppt) | Measured Salinity (ppt) | Difference % |
|-------------------------|-------------------------|--------------|
| 30 | 29.6 | 1.3% |

Acceptance Criteria

Difference : <10 %

The salinity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Checked by : TK Approved by : Wick Law



Internal Calibration Report of Dissolved Oxygen Meter

| | |
|---|--|
| Equipment Ref. No. : <u>ET/EW/003/001</u> | Manufacturer : <u>YSI</u> |
| Model No. : <u>95</u> | Serial No. : <u>97H 04071 AD</u> |
| Date of Calibration : <u>01/03/06</u> | Calibration Due Date : <u>31/05/06</u> |

Ref. No. of Reference Thermometer : ET/2403/01

Ref. No. of Potassium Dichromate : ET/0520/003/02

Temperature Verification

| Thermometer reading | Temperature (°C) |
|---------------------|------------------|
| 26.0 | 26.0 |
| Meter reading | 20.0 |

Linearity Checking

| Purging time, min | DO meter reading, mg/L | | | Winkler Titration result, mg/L | | | Difference (%) of DO Content |
|-------------------------------|------------------------|------|---------|--------------------------------|------|---------|------------------------------|
| | 1 | 2 | Average | 1 | 2 | Average | |
| 2 | 7.46 | 7.44 | 7.45 | 7.31 | 7.29 | 7.30 | 2.03 |
| 5 | 5.66 | 5.64 | 5.65 | 5.66 | 5.64 | 5.65 | 0.00 |
| 10 | 4.01 | 3.99 | 4.00 | 3.82 | 3.80 | 3.81 | 4.87 |
| Linear regression coefficient | | | | 0.9968 | | | |

Zero Point Checking

| | |
|------------------------|------|
| DO meter reading, mg/L | 0.00 |
|------------------------|------|

Salinity Checking

| Salinity (ppt) | DO meter reading, mg/L | | | Winkler Titration result, mg/L | | | Difference (%) of DO Content |
|----------------|------------------------|------|---------|--------------------------------|------|---------|------------------------------|
| | 1 | 2 | Average | 1 | 2 | Average | |
| 10 | 7.16 | 7.14 | 7.15 | 7.01 | 7.01 | 7.01 | 1.98 |
| 30 | 6.56 | 6.54 | 6.55 | 6.32 | 6.30 | 6.31 | 3.73 |

Acceptance Criteria

- (1) Differenc between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °C
- (2) Linear regression coefficient : > 0.99
- (3) Zero checking: 0.0mg/L
- (4) Difference (%) of DO content from the meter reading and by winkler titration : within ± 5%

The equipment complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use.

* Delete as appropriate

Calibrated by : Cinda Law

Approved by :