


**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

|   |   |
|---|---|
| <p><b>Pennsylvania Standards Laboratory</b><br/>2221 Forster Street, Room G-44A<br/>Harrisburg, PA 17125-0001<br/>Tangela Isaac<br/>Phone: 717-783-1201 Fax: 717-346-3820<br/>E-mail: tisaac@pa.gov</p> | <p><b>Fields of Calibration</b><br/>Dimensional<br/>Time and Frequency<br/>Mechanical</p> <p>This laboratory is compliant to ANSI/NCSLI Z540-1-1994; Part 1. (NVLAP Code: 20/A01)</p> |
|---|---|

**CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) <sup>Notes 1,2</sup>**

| Measured Parameter or Device Calibrated  | Range          | Expanded Uncertainty <sup>Note 3</sup> | Remarks      |
|--|----------------|--|--------------|
| <b>DIMENSIONAL</b>                       |                |  |              |
| <b>SURVEYING RODS and TAPES (20/D13)</b> |                |  |              |
| Surveying Tapes                          | 0 ft to 16 ft  | 0.0079 in                              | Bench Method |
|  | 0 ft to 30 ft  | 0.015 in                               |              |
|  | 0 ft to 45 ft  | 0.022 in                               |              |
|  | 0 ft to 60 ft  | 0.029 in                               |              |
|  | 0 ft to 75 ft  | 0.036 in                               |              |
|  | 0 ft to 84 ft  | 0.043 in                               |              |
|  | 0 ft to 90 ft  | 0.043 in                               |              |
|  | 0 ft to 100 ft | 0.051 in                               |              |
|  | 0 ft to 105 ft | 0.051 in                               |              |
|  | 0 ft to 120 ft | 0.058 in                               |              |
|  | 0 ft to 135 ft | 0.065 in                               |              |
|  | 0 ft to 150 ft | 0.072 in                               |              |
|  | 0 ft to 165 ft | 0.079 in                               |              |
|  | 0 ft to 180 ft | 0.087 in                               |              |
|  | 0 ft to 184 ft | 0.094 in                               |              |
|  | 0 ft to 195 ft | 0.094 in                               |              |
| 0 ft to 200 ft                           | 0.10 in        |  |              |
| <b>TIME and FREQUENCY</b>                |                |  |              |
| <b>STOPWATCHES and TIMERS (20/F05)</b>   |                |  |              |
| Stopwatches                              | 0 h to 24 h    | 0.11 s                                 |              |


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|---|----------------|--|------------|
| <b>MECHANICAL</b>                       |                |  |            |
| <b>FORCE (20/M06)</b>                   |                |  |            |
| Force Gauge                             | 30 lbf         | 0.063 lbf                              |            |
|   | 25 lbf         | 0.063 lbf                              |            |
|   | 20 lbf         | 0.068 lbf                              |            |
|   | 15 lbf         | 0.075 lbf                              |            |
|   | 10 lbf         | 0.075 lbf                              |            |
|   | 0 lbf to 5 lbf | 0.061 lbf                              |            |
| <b>MASS DETERMINATION (20/M08)</b>      |                |  |            |
| Metric                                  | 30 kg          | 23 mg                                  | Echelon II |
|   | 25 kg          | 23 mg                                  |            |
|   | 20 kg          | 9.1 mg                                 |            |
|   | 10 kg          | 3.0 mg                                 |            |
|   | 5 kg           | 1.7 mg                                 |            |
|   | 3 kg           | 1.4 mg                                 |            |
|   | 2 kg           | 1.2 mg                                 |            |
|   | 1 kg           | 0.28 mg                                |            |
|   | 500 g          | 0.15 mg                                |            |
|   | 300 g          | 0.10 mg                                |            |
|   | 200 g          | 86 µg                                  |            |
|   | 100 g          | 40 µg                                  |            |
|   | 50 g           | 25 µg                                  |            |
|   | 30 g           | 25 µg                                  |            |
|   | 20 g           | 20 µg                                  |            |
|   | 10 g           | 11 µg                                  |            |
|   | 5 g            | 10 µg                                  |            |
|   | 3 g            | 6.1 µg                                 |            |
|   | 2 g            | 5.9 µg                                 |            |
|   | 1 g            | 4.6 µg                                 |            |
|   | 500 mg         | 4.7 µg                                 |            |
|   | 300 mg         | 3.2 µg                                 |            |
| 200 mg                                  | 2.5 µg         |  |            |
| 100 mg                                  | 2.5 µg         |  |            |
| 50 mg                                   | 1.8 µg         |  |            |
| 30 mg                                   | 1.6 µg         |  |            |
| 20 mg                                   | 1.3 µg         |  |            |


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| Measured Parameter or Device Calibrated | Range    | Expanded Uncertainty <sup>Note 3</sup> | Remarks    |
|---|----------|--|------------|
| Avoirdupois                             | 10 mg    | 1.2 µg                                 | Echelon II |
|   | 5 mg     | 1.2 µg                                 |            |
|   | 3 mg     | 1.2 µg                                 |            |
|   | 2 mg     | 3.9 µg                                 |            |
|   | 1 mg     | 3.4 µg                                 |            |
|   | 1000 lb  | 0.90 g                                 |            |
|   | 500 lb   | 0.68 g                                 |            |
|   | 200 lb   | 0.53 g                                 |            |
|   | 100 lb   | 75 mg                                  |            |
|   | 50 lb    | 21 mg                                  |            |
|   | 30 lb    | 18 mg                                  |            |
|   | 25 lb    | 15 mg                                  |            |
|   | 20 lb    | 12 mg                                  |            |
|   | 10 lb    | 3.9 mg                                 |            |
|   | 5 lb     | 1.8 mg                                 |            |
|   | 3 lb     | 1.7 mg                                 |            |
|   | 2 lb     | 0.37 mg                                |            |
|   | 1 lb     | 0.17 mg                                |            |
|   | 0.5 lb   | 100 µg                                 |            |
|   | 0.3 lb   | 81 µg                                  |            |
|   | 0.2 lb   | 44 µg                                  |            |
|   | 0.1 lb   | 28 µg                                  |            |
|   | 0.05 lb  | 25 µg                                  |            |
|   | 0.03 lb  | 16 µg                                  |            |
|   | 0.02 lb  | 13 µg                                  |            |
|   | 0.01 lb  | 4.9 µg                                 |            |
|   | 0.005 lb | 4.1 µg                                 |            |
|   | 0.003 lb | 2.3 µg                                 |            |
|   | 0.002 lb | 2.1 µg                                 |            |
|   | 0.001 lb | 3.3 µg                                 |            |
|   | 8 oz     | 100 µg                                 |            |
|   | 4 oz     | 130 µg                                 |            |
| 2 oz                                    | 70 µg    |  |            |
| 1 oz                                    | 35 µg    |  |            |


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CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) <sup>Notes 1,2</sup>

| Measured Parameter or Device Calibrated | Range   | Expanded Uncertainty <sup>Note 3</sup> | Remarks     |
|---|---------|--|-------------|
| Metric                                  | 1/2 oz  | 36 µg                                  | Echelon III |
|   | 1/4 oz  | 22 µg                                  |             |
|   | 1/8 oz  | 21 µg                                  |             |
|   | 1/16 oz | 9.3 µg                                 |             |
|   | 1/32 oz | 7.8 µg                                 |             |
|   | 2500 kg | 44 g                                   |             |
|   | 1000 kg | 17 g                                   |             |
|   | 750 kg  | 15 g                                   |             |
|   | 500 kg  | 6.1 g                                  |             |
|   | 250 kg  | 3.1 g                                  |             |
|   | 200 kg  | 2.5 g                                  |             |
|   | 100 kg  | 1.4 g                                  |             |
|   | 50 kg   | 600 mg                                 |             |
|   | 30 kg   | 360 mg                                 |             |
|   | 25 kg   | 310 mg                                 |             |
|   | 20 kg   | 250 mg                                 |             |
|   | 10 kg   | 140 mg                                 |             |
|   | 5 kg    | 31 mg                                  |             |
|   | 3 kg    | 19 mg                                  |             |
|   | 2 kg    | 13 mg                                  |             |
|   | 1 kg    | 7.8 mg                                 |             |
|   | 500 g   | 6.2 mg                                 |             |
|   | 300 g   | 2.4 mg                                 |             |
|   | 200 g   | 1.8 mg                                 |             |
|   | 100 g   | 1.2 mg                                 |             |
|   | 50 g    | 0.69 mg                                |             |
|   | 30 g    | 0.50 mg                                |             |
|   | 20 g    | 0.38 mg                                |             |
|   | 10 g    | 0.27 mg                                |             |
|   | 5 g     | 0.20 mg                                |             |
|   | 3 g     | 0.16 mg                                |             |
|   | 2 g     | 0.14 mg                                |             |
|   | 1 g     | 0.064 mg                               |             |
|   | 500 mg  | 50 µg                                  |             |
| 300 mg                                  | 39 µg   |  |             |
| 200 mg                                  | 51 µg   |  |             |


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|---|---------|--|-------------|
| Avoirdupois                             | 100 mg  | 27 µg                                  | Echelon III |
|   | 50 mg   | 24 µg                                  |             |
|   | 30 mg   | 21 µg                                  |             |
|   | 20 mg   | 18 µg                                  |             |
|   | 10 mg   | 16 µg                                  |             |
|   | 5 mg    | 14 µg                                  |             |
|   | 3 mg    | 13 µg                                  |             |
|   | 2 mg    | 12 µg                                  |             |
|   | 1 mg    | 12 µg                                  |             |
|   | 5000 lb | 43 g                                   |             |
|   | 3000 lb | 27 g                                   |             |
|   | 2500 lb | 25 g                                   |             |
|   | 2000 lb | 16 g                                   |             |
|   | 1000 lb | 5.5 g                                  |             |
|   | 500 lb  | 2.9 g                                  |             |
|   | 250 lb  | 1.5 g                                  |             |
|   | 200 lb  | 1.3 g                                  |             |
|   | 100 lb  | 0.54 g                                 |             |
|   | 50 lb   | 0.28 g                                 |             |
|   | 30 lb   | 0.18 g                                 |             |
|   | 25 lb   | 0.15 g                                 |             |
|   | 20 lb   | 130 mg                                 |             |
|   | 10 lb   | 28 mg                                  |             |
|   | 5 lb    | 15 mg                                  |             |
|   | 4 lb    | 13 mg                                  |             |
|   | 3 lb    | 10 mg                                  |             |
|   | 2 lb    | 7.4 mg                                 |             |
|   | 1 lb    | 2.7 mg                                 |             |
|   | 0.5 lb  | 1.9 mg                                 |             |
|   | 0.3 lb  | 1.3 mg                                 |             |
|   | 0.2 lb  | 1.0 mg                                 |             |
|   | 0.1 lb  | 0.67 mg                                |             |
|   | 0.05 lb | 0.43 mg                                |             |
| 0.03 lb                                 | 0.31 mg |  |             |
| 0.02 lb                                 | 0.27 mg |  |             |
| 0.01 lb                                 | 0.18 mg |  |             |


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|---|-----------|--|---------|
| Troy Ounce                              | 0.005 lb  | 0.15 mg                                |         |
|   | 0.003 lb  | 0.14 mg                                |         |
|   | 0.002 lb  | 0.068 mg                               |         |
|   | 0.001 lb  | 0.055 mg                               |         |
|   | 12 oz     | 2.4 mg                                 |         |
|   | 8 oz      | 1.9 mg                                 |         |
|   | 6 oz      | 1.6 mg                                 |         |
|   | 4 oz      | 1.2 mg                                 |         |
|   | 2 oz      | 0.73 mg                                |         |
|   | 1 oz      | 0.49 mg                                |         |
|   | 1/2 oz    | 0.32 mg                                |         |
|   | 1/4 oz    | 0.23 mg                                |         |
|   | 1/8 oz    | 0.17 mg                                |         |
|   | 1/16 oz   | 0.14 mg                                |         |
|   | 1/32 oz   | 0.075 mg                               |         |
|   | 0.5 oz    | 0.32 mg                                |         |
|   | 0.3 oz    | 0.25 mg                                |         |
|   | 0.2 oz    | 0.23 mg                                |         |
|   | 0.1 oz    | 0.19 mg                                |         |
|   | 0.05 oz   | 0.16 mg                                |         |
|   | 0.02 oz   | 0.14 mg                                |         |
|   | 0.01 oz   | 0.14 mg                                |         |
|   | 200 oz t  | 73 mg                                  |         |
|   | 100 oz t  | 37 mg                                  |         |
|   | 50 oz t   | 20 mg                                  |         |
|   | 20 oz t   | 9.7 mg                                 |         |
|   | 10 oz t   | 9.7 mg                                 |         |
|   | 5 oz t    | 6.2 mg                                 |         |
|   | 2 oz t    | 1.4 mg                                 |         |
|   | 1 oz t    | 0.74 mg                                |         |
|   | 0.5 oz t  | 0.38 mg                                |         |
|   | 0.25 oz t | 0.23 mg                                |         |
| 0.2 oz t                                | 0.22 mg   |  |         |
| 0.1 oz t                                | 0.19 mg   |  |         |

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200869-0

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| Measured Parameter or Device Calibrated | Range                  | Expanded Uncertainty <sup>Note 3</sup> | Remarks                            |
|---|------------------------|--|------------------------------------|
| Grain                                   | 0.05 oz t              | 0.16 mg                                |                                    |
|   | 0.025 oz t             | 0.15 mg                                |                                    |
|   | 0.02 oz t              | 0.14 mg                                |                                    |
|   | 0.01 oz t              | 0.13 mg                                |                                    |
|   | 0.005 oz t             | 0.13 mg                                |                                    |
|   | 1000 gr                | 1.6 mg                                 |                                    |
|   | 500 gr                 | 0.79 mg                                |                                    |
|   | 200 gr                 | 0.34 mg                                |                                    |
|   | 100 gr                 | 0.24 mg                                |                                    |
|   | 50 gr                  | 0.20 mg                                |                                    |
|   | 20 gr                  | 0.16 mg                                |                                    |
|   | 10 gr                  | 100 µg                                 |                                    |
|   | 5 gr                   | 77 µg                                  |                                    |
|   | 2 gr                   | 59 µg                                  |                                    |
|   | 1 gr                   | 52 µg                                  |                                    |
| Wheel Load Weighers                     | 30 001 lb to 40 000 lb | 80 lb                                  | Echelon III<br>Calibrated in Pairs |
|   | 20 001 lb to 30 000 lb | 80 lb                                  |                                    |
|   | 10 001 lb to 20 000 lb | 61 lb                                  |                                    |
|   | 0 lb to 10 000 lb      | 50 lb                                  |                                    |
|   | 15 001 lb to 20 000 lb | 48 lb                                  | Calibrated Singly                  |
|   | 10 001 lb to 15 000 lb | 45 lb                                  |                                    |
|   | 5001 lb to 10 000 lb   | 38 lb                                  |                                    |
|   | 0 lb to 5000 lb        | 33 lb                                  |                                    |
| Weight Carts                            | 6000 lb                | 140 g                                  | Echelon III                        |
|   | 5500 lb                | 130 g                                  |                                    |
|   | 5000 lb                | 130 g                                  |                                    |
|   | 4500 lb                | 120 g                                  |                                    |
|   | 4000 lb                | 110 g                                  |                                    |
|   | 3500 lb                | 110 g                                  |                                    |


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|---|----------------------|--|---|-----------------|
|   | 3000 lb              | 100 g                                  |   |                 |
| <b>VOLUME and DENSITY (20/M12)</b>      |                      |  |   |                 |
| Volume                                  | 1500 gal             | 45 in <sup>3</sup>                     | Transfer Method                                     |                 |
|   | 1000 gal             | 31 in <sup>3</sup>                     |   |                 |
|   | 500 gal              | 16 in <sup>3</sup>                     |   |                 |
|   | 200 gal              | 6.2 in <sup>3</sup>                    |   |                 |
|   | 100 gal              | 3.1 in <sup>3</sup>                    |   |                 |
|   | 60 gal               | 1.8 in <sup>3</sup>                    |   |                 |
|   | 50 gal               | 1.5 in <sup>3</sup>                    |   |                 |
|   | 25 gal               | 0.92 in <sup>3</sup>                   |   |                 |
|   | 10 gal               | 0.41 in <sup>3</sup>                   |   |                 |
|   | 5 gal                | 0.35 in <sup>3</sup>                   |   | 4 in neck       |
|   | 5 gal                | 0.20 in <sup>3</sup>                   |   | 3 in neck       |
|   | 5000 L               | 0.65 L                                 |   |                 |
|   | 3000 L               | 0.39 L                                 |   |                 |
|   | 2000 L               | 0.27 L                                 |   |                 |
|   | 1000 L               | 0.13 L                                 |   |                 |
|   | 500 L                | 62 mL                                  |   |                 |
|   | 250 L                | 30 mL                                  |   |                 |
|   | 200 L                | 30 mL                                  |   |                 |
|   | 120 L                | 20 mL                                  |   |                 |
|   | 100 L                | 16 mL                                  |   |                 |
|   | 60 L                 | 11 mL                                  |   |                 |
|   | 50 L                 | 9.4 mL                                 |   |                 |
|   | 40 L                 | 8.1 mL                                 |   |                 |
| 20 L                                    | 5.9 mL               |  |   |                 |
| Large Volume                            | 120 gal              | 1.8 in <sup>3</sup>                    | Gravimetric Method<br>Ball Valve<br>Butterfly Valve |                 |
|   | 100 gal              | 1.7 in <sup>3</sup>                    |   |                 |
|   | 100 gal              | 1.7 in <sup>3</sup>                    |   |                 |
|   | 75 gal               | 1.6 in <sup>3</sup>                    |   |                 |
|   | 60 gal               | 1.1 in <sup>3</sup>                    |   |                 |
|   | 50 gal               | 1.0 in <sup>3</sup>                    |   | Ball Valve      |
|   | 50 gal               | 0.94 in <sup>3</sup>                   |   | Butterfly Valve |
| 25 gal                                  | 0.53 in <sup>3</sup> | Ball Valve                             |   |                 |

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|---|------------------|--|-----------------|
|   | 25 gal           | 0.42 in <sup>3</sup>                   | Butterfly Valve |
|   | 20 gal           | 0.41 in <sup>3</sup>                   |                 |
|   | 15 gal           | 0.41 in <sup>3</sup>                   |                 |
|   | 500 L            | 37 mL                                  |                 |
|   | 250 L            | 18 mL                                  |                 |
|   | 200 L            | 16 mL                                  |                 |
|   | 100 L            | 8.7 mL                                 |                 |
|   | 60 L             | 6.7 mL                                 |                 |
|   | 50 L             | 6.7 mL                                 |                 |
|   | 40 L             | 5.5 mL                                 |                 |
| Bottom Drain Prover                     | 10 gal           | 0.34 in <sup>3</sup>                   |                 |
|   | 5 gal            | 0.23 in <sup>3</sup>                   |                 |
| Slicker Standard                        | 10 gal           | 0.16 in <sup>3</sup>                   |                 |
|   | 5 gal            | 0.11 in <sup>3</sup>                   |                 |
|   | 1 gal            | 0.028 in <sup>3</sup>                  |                 |
| Test Measure                            | 10 gal           | 0.31 in <sup>3</sup>                   |                 |
|   | 5 gal            | 0.15 in <sup>3</sup>                   |                 |
|   | 5 gal (Imperial) | 0.18 in <sup>3</sup>                   |                 |
| Slicker Standard                        | 20 L             | 1.8 mL                                 |                 |
|   | 10 L             | 0.95 mL                                |                 |
|   | 5 L              | 0.50 mL                                |                 |
| Test Measure                            | 20 L             | 2.6 mL                                 |                 |
| <b>END</b>                              |                  |  |                 |

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Notes

**Note 1:** A Calibration and Measurement Capability (CMC) is a description of the best result of a calibration or measurement (result with the smallest uncertainty of measurement) that is available to the laboratory's customers under normal conditions, when performing more or less routine calibrations of nearly ideal measurement standards or instruments. The CMC is described in the laboratory's scope of accreditation by: the measurement parameter/device being calibrated, the measurement range, the uncertainty associated with that range (see note 3), and remarks on additional parameters, if applicable.

**Note 2:** Calibration and Measurement Capabilities are traceable to the national measurement standards of the U.S. or to the national measurement standards of other countries and are thus traceable to the internationally accepted representation of the appropriate SI (Système International) unit.

**Note 3:** The uncertainty associated with a measurement in a CMC is an expanded uncertainty with a level of confidence of approximately 95 %, typically using a coverage factor of  $k = 2$ . However, laboratories may report a coverage factor different than  $k = 2$  to achieve the 95 % level of confidence. Units for the measurand and its uncertainty are to match. Exceptions to this occur when marketplace practice employs mixed units, such as when the artifact to be measured is labeled in non-SI units and the uncertainty is given in SI units (Example: 5 lb weight with uncertainty given in mg).

**Note 3a:** The uncertainty of a specific calibration by the laboratory may be greater than the uncertainty in the CMC due to the condition and behavior of the customer's device and specific circumstances of the calibration. The uncertainties quoted do not include possible effects on the calibrated device of transportation, long term stability, or intended use.

**Note 3b:** As the CMC represents the best measurement results achievable under normal conditions, the accredited calibration laboratory shall not report smaller uncertainty of measurement than that given in a CMC for calibrations or measurements covered by that CMC.

**Note 3c:** As described in Note 1, CMCs cover calibrations and measurements that are available to the laboratory's customers under *normal conditions*. However, the laboratory may have the capability to offer special tests, employing special conditions, which yield calibration or measurement results with lower uncertainties. Such special tests are not covered by the CMCs and are outside the laboratory's scope of accreditation. In this case, NVLAP requirements for the labeling, on calibration reports, of results outside the laboratory's scope of accreditation apply. These requirements are set out in Annex A.5 of NIST Handbook 150, Procedures and General Requirements.

**Note 4:** Uncertainties associated with field service calibration may be greater as they incorporate on-site environmental contributions, transportation effects, or other factors that affect the measurements. (This note applies only if marked in the body of the scope.)

**Note 5:** Values listed with percent (%) are percent of reading or generated value unless otherwise noted.

**Note 6:** NVLAP accreditation is the formal recognition of specific calibration capabilities. Neither NVLAP nor NIST guarantee the accuracy of individual calibrations made by accredited laboratories.

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