

Equipment List for Verification & Calibration (Hilo)

Hilo District Office Lab, 50 Makaala St. Hilo Hi. 96720

| Unit | Equipment | Make | Model / Type | Ser. No. I.D. No. | Capacity | Calibration Requirements and Remarks |
|-----------|-------------------|----------|------------------------------|-----------------------------|-----------------|---|
| Hawaii-01 | Balance | Ohaus | CQ100L11 | 06071876CD DH 303411 | 250 lb | ASTM E898 & AASHTO M231 Weighing Indicator # (CD11) |
| Hawaii-02 | Manometer | Humboldt | Vacuum 9210 | 156 DH 303376 | 20-150mm Hg | |
| Hawaii-03 | Balance | Ohaus | 1P12KS | 2114364890 DH 302701 | 12 kg | ASTM E898 & AASHTO M231 |
| Hawaii-04 | Thermometer | Fluke | 51-II | 80910118 DH 303396 | -40 to 1800° | |
| Hawaii-05 | Balance | Ohaus | STX222 | B6153334070 | 220 g | ASTM E898 & AASHTO M231 |
| Hawaii-06 | Balance | Ohaus | Scout Pro | B229134998 | 200 g | ASTM E898 & AASHTO M231 |
| Hawaii-07 | Balance | Mettler | PM-34 | K 15396 30002243 | 3 / 34 kg | ASTM E898 & AASHTO M231 |
| Hawaii-08 | Balance | Mettler | SB12001 | 1122131250 | 12 kg | ASTM E898 & AASHTO M231 |
| Hawaii-09 | IR Thermometer | Raytek | ST 80 Pro Plus Raynger ST | 2182400101-1002 DH303449 | -32 to 760° | Lab |
| Hawaii-10 | Caliper | Mitutoyo | CD-18" | 0026390 | 0-18" | |
| Hawaii-11 | Caliper | Mitutoyo | | 0607595 DH303286 | 0-6" | |
| Hawaii-12 | Oven | Despatch | | 169925 | 125-325° | Three (3) Temperature Checks @ 125°F, 230°F & 325°F. |
| Hawaii-13 | Weight | Ohaus | Brass 100G Wt | 51607 | 100g | |
| Hawaii-14 | Balance | Ohaus | EP12001 | 1124017670 | 12 kg | ASTM E898 & AASHTO M231 |
| Hawaii-15 | Manometer | Humboldt | Vacuum 9210 | 4953 DH304164 | 0-1000mm Hg | |
| Hawaii-16 | Balance | Ohaus | EP12001 | 1124021854 DH304165 | 12 kg | ASTM E898 & AASHTO M231 |
| Hawaii-17 | Oven | Despatch | LB1-69A-1 | 187699 DH304220 | 125-325° | Three (3) Temperature Checks @ 125°F, 230°F & 325°F. |
| Hawaii-18 | IR Thermometer | Fluke | Fluke-566 | 353320041WS | -40 - 650°C | Lab |

| Unit | Equipment | Make | Model / Type | Ser. No. I.D. No. | Capacity | Calibration Requirements and Remarks |
|-----------|-------------------|----------|--------------|----------------------|--------------|---|
| Hawaii-20 | IR Thermometer | Kane-May | KM842 | 2123040101 | -25 to 750°F | Lab |
| Hawaii-21 | IR Thermometer | Kane-May | KM842 | 34780011 DH304351 | -25 to 999°F | Aisha |
| Hawaii-22 | IR Thermometer | Kane-May | KM842 | 34780013 DH304355 | -25 to 999°F | Jay |
| Hawaii-23 | IR Thermometer | Kane-May | KM842 | 34780014 DH304353 | -25 to 999°F | Rickey |
| Hawaii-24 | IR Thermometer | Kane-May | KM842 | 34780015 DH304348 | -25 to 999°F | Rob |
| Hawaii-25 | IR Thermometer | Kane-May | KM842 | 34780018 DH304349 | -25 to 999°F | Francis |
| Hawaii-26 | IR Thermometer | Kane-May | KM842 | 34780019 DH304352 | -25 to 999°F | John |
| Hawaii-27 | IR Thermometer | Kane-May | KM842 | 36460004 DH304397 | -25 to 999°F | Spare |
| Hawaii-28 | IR Thermometer | Kane-May | KM842 | 36460011 DH304399 | -25 to 999°F | Khaled |
| Hawaii-29 | IR Thermometer | Kane-May | KM842 | 34780020 DH304354 | -25 to 999°F | Shane |
| Hawaii-30 | IR Thermometer | Kane-May | KM842 | 36460012 DH304400 | -25 to 999°F | Spare |
| Hawaii-31 | IR Thermometer | Kane-May | KM842 | 36460008 DH304396 | -25 to 999°F | Spare |
| Hawaii-32 | Thermometer | Fisher | ASTM 11 F | 9C4020 | 20° to 760° | Lab |
| Hawaii-33 | Thermometer | TEL TRU | 12100064 | HC12 | 50° to 500° | Shane |
| Hawaii-34 | Thermometer | TEL TRU | 12100064 | HC6 | 50° to 500° | Spare |
| Hawaii-35 | Thermometer | TEL TRU | 12100064 | HC7 | 50° to 500° | Aisha |
| Hawaii-36 | Thermometer | TEL TRU | 12100064 | HC 8 | 50° to 500° | Spare |
| Hawaii-37 | Thermometer | TEL TRU | LT 225 | HC 7B | 25° to 125° | Aisha |
| Hawaii-38 | Thermometer | TEL TRU | 12100064 | HC 9 | 50° to 500° | Rob |
| Hawaii-39 | Thermometer | TEL TRU | LT 225 | HC 11 | 25° to 125° | Francis |

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|-----------|--------------------------|--------------|-----------------|-------------|-------------|---------|
| Hawaii-40 | Thermometer | TEL TRU | LT 225 | HC 12B | 25° to 125° | Rob |
| Hawaii-41 | Thermometer | TEL TRU | LT 225 | HC 13 | 50° to 500° | Khaled |
| Hawaii-42 | Thermometer | TEL TRU | LT 225 | HC 13CE | 25° to 125° | Jay |
| Hawaii-43 | Thermometer | TEL TRU | 12100064 | HC 14 | 50° to 500° | Spare |
| Hawaii-44 | Thermometer | TEL TRU | Dial Therm | HC 15 | 50° to 550° | Jay |
| Hawaii-45 | Thermometer | Taylor | Dial Therm | HT-1 | 50° to 550° | Spare |
| Hawaii-46 | Thermometer | Taylor | Dial Therm | TH-04 | 0° to 180° | Khaled |
| Hawaii-47 | Thermometer | Taylor | | Rob | 0° to 222° | Rob |
| Hawaii-48 | Thermometer | | | Rob Lee | 0° to 220° | Rob |
| Hawaii-49 | Thermometer | | | HT2 | 50° to 500° | Rob |
| Hawaii-50 | Thermometer | | | HC-11A | 50° to 500° | Francis |
| Hawaii-51 | Thermometer | | | HC4 | 25° to 125° | John |
| Hawaii-52 | Thermometer | Gilson | | HC 15B | 25° to 125° | Spare |
| Hawaii-53 | Thermometer | Gilson | | HC 16 | 50° to 500° | Spare |
| Hawaii-54 | Thermometer | Gilson | | HC 16B | 25° to 125° | Rickey |
| Hawaii-55 | Thermometer | Gilson | | HC 17 | 50° to 500° | John |
| Hawaii-56 | Thermometer | Gilson | | HC 17B | 25° to 125° | Shane |
| Hawaii-57 | Sifter | Rainhart Co. | "MaryAnn" | DH304177 | | |
| Hawaii-58 | SE Shaker | Testlab | | 3001559 | | |
| Hawaii-59 | Splitter | Gilson | Porta Splitter | #1 | | |
| Hawaii-60 | Splitter | Sepor | ½" 16 openings | | | |
| Hawaii-61 | Compression Test Machine | Forney | F-25EX-F-DR2001 | S/N # 05071 | 250,000 lbs | |

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|-----------|---------------------------------|-----------|-------------------|---------------|-------------|---|
| Hawaii-62 | NCAT Furnace | Barnstead | 208240 | 1275060905552 | | |
| Hawaii-63 | NCAT Furnace | Barnstead | F85930 | 1275060782791 | | |
| Hawaii-64 | Constant Temperature Oven | Yamato | DKN-810 207241 | 3600000 | | Three (3) Temperature Checks @ 125°F, 230°F & 325°F. |
| Hawaii-65 | Chart Recorder | Palmer | | 31288.001 | 0° to 150°F | |
| Hawaii-66 | Scale | Adam | CPW Plus-75 | AE40135468 | 165lbs | |

Notes for all Equipment:

- 1) Calibrating technician should be familiar with equipment and controls before operating the equipment.
- 2) Follow manufacturer's instructions.
- 3) Clean equipment.
- 4) Verify equipment according to calibration requirements.
- 5) Calibrate equipment as needed.
- 6) Deliver Report/Certificate of Calibration/Verification including:
 - a. Name of technician performing calibration/verification.
 - b. Date calibration/verification was performed.
 - c. Equipment and/or standards used to perform calibration/verification.
 - d. Procedures used in calibration/verification.
 - e. Test data from calibration/verification.
 - f. Description of any corrective measures performed.
- 7) Ovens – A minimum of two (2) temperature checks are required per AASHTO unless otherwise specified.