

# United States Department of Commerce

## National Institute of Standards and Technology

Certificate of Metrological Traceability For:

# Pennsylvania

This laboratory has demonstrated evidence of an unbroken chain of metrological traceability of its standards to the international system of units (SI), documented measurement uncertainties, uses documented measurement procedures, successfully completed training and proficiency tests, documented calibration intervals, submitted a quality management system, and demonstrated suitable measurement assurance for the Scope listed on this certificate.

The Office of Weights and Measures Program assesses laboratories to NIST Handbook 143 - Program Handbook for State Weights and Measures Laboratories and ISO/IEC 17025:2005.

### *Scope*

#### **Mass Echelon II**

30 kg to 1 mg  
1000 lb to 0.001 lb

#### **Mass Echelon III**

2500 kg to 1 mg  
5000 lb to 0.001 lb  
8 oz to 0.01 oz  
200 oz t to 0.005 oz t  
1000 gr to 0.1 gr

#### **Weight Carts**

6000 lb to 2000 lb

#### **Wheel Load Weighers**

≤ 40 000 lb

#### **Volume Gravimetric, I**

500 L to 5 L  
100 gal to 1 gal  
5 gal (Imperial)

#### **Volume Transfer, II**

5000 L to 5 L  
1500 gal to 5 gal

#### **Length, Tapes, Bench**

Steel Tapes  
≤ 200 ft

#### **Time**

Stopwatches  
≤ 24 h

#### **Force**

≤ 50 lbf



2018 to 2019

*Douglas A. Olson*

Douglas A. Olson, Chief  
NIST Office of Weights and Measures

Effective Dates: 2018-01-01 to 2019-12-31