

# United States Department of Commerce

## National Institute of Standards and Technology

Certificate of Metrological Traceability For:

# Minnesota

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 17025:2017.



2020 to 2022

### *Scope*

#### **Mass Echelon I**

20 kg to 1 mg

#### **Mass Echelon II**

5 kg to 1 mg

1000 lb to 500 lb

50 lb to 0.001 lb

#### **Mass Echelon III**

50 kg to 1 mg

2500 lb to 0.001 lb

4 oz to 0.03125 oz

Weight Carts

5000 lb to 2000 lb

Wheel Load Weighers

12 000 lb to 2000 lb

Railroad Test Cars/Carts

110 000 lb to 80 000 lb

10 000 lb to 8000 lb

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

20 L to 10 mL

100 gal to 0.25 gal

12 fl oz

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

1500 gal to 5 gal

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

200 gal to 25 gal

A handwritten signature in black ink that reads "Douglas A. Olson".

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

*Effective Dates: 2020-12-15 to 2023-02-01*