# 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), maintains a documented calibration program, documented measurement uncertainties, uses documented measurement procedures, successfully completed training and proficiency tests, submitted a quality management system, and has 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.



2022 to 2023

### Scope

Mass	<b>Echelon</b>	I
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20 kg to 1 mg

#### Mass Echelon II

5 kg to 1 mg 2500 lb 1000 lb to 500 lb

#### 1000 lb to 500 lb 50 lb to 0.001 lb

#### Mass Echelon III

50 kg to 1 mg 3000 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

Klh

Katrice Lippa, Chief NIST Office of Weights and Measures

Effective Dates: 2022-02-01 to 2024-02-01

(Rev.: September 2021)