

United States Department of Commerce  
National Institute of Standards and Technology

**NVLAP**<sup>®</sup>

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**Certificate of Accreditation**

ISO/IEC 17025:1999  
ISO 9002:1994



**RICE LAKE WEIGHING SYSTEMS**  
RICE LAKE, WI

*is recognized by the National Voluntary Laboratory Accreditation Program  
for satisfactory compliance with criteria set forth in NIST Handbook 150:2001,  
all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994.  
Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:*

**CALIBRATION LABORATORIES**

March 31, 2003

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*Effective through*

*David F. Alderman*

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*For the National Institute of Standards and Technology*

NVLAP Lab Code: 105001-0

## Scope of Accreditation



### CALIBRATION LABORATORIES

NVLAP LAB CODE 105001-0

#### RICE LAKE WEIGHING SYSTEMS

230 West Coleman Street  
P.O. Box 272  
Rice Lake, WI 54868  
Mr. Richard Calkins  
Phone: 715-234-9171 x6113 Fax: 715-234-6967  
E-Mail: riccal@rlws.com  
URL: <http://www.rlws.com>

NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

#### MECHANICAL

NVLAP Code: 20/M08

Mass

Range	Best Uncertainty ( $\pm$ ) <sup>95%</sup>	Remarks
30 kg	13.3 mg	Echelon I Facility
20 kg	8.0 mg	Echelon I Facility
10 kg	1.8 mg	Echelon I Facility
5 kg	0.93 mg	Echelon I Facility
3 kg	0.61 mg	Echelon I Facility
2 kg	0.43 mg	Echelon I Facility
1 kg	0.041 mg	Echelon I Facility
500 g	0.031 mg	Echelon I Facility
300 g	0.025 mg	Echelon I Facility

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#### RICE LAKE WEIGHING SYSTEMS

200 g	0.024 mg	Echelon I Facility
100 g	0.028 mg	Echelon I Facility
50 g	0.0142 mg	Echelon I Facility
30 g	0.0089 mg	Echelon I Facility
20 g	0.0065 mg	Echelon I Facility
10 g	0.0050 mg	Echelon I Facility
5 g	0.0032 mg	Echelon I Facility
3 g	0.0025 mg	Echelon I Facility
2 g	0.0023 mg	Echelon I Facility
1 g	0.0025 mg	Echelon I Facility
500 mg	0.00224 mg	Echelon I Facility
300 mg	0.00192 mg	Echelon I Facility
200 mg	0.00190 mg	Echelon I Facility
100 mg	0.00222 mg	Echelon I Facility
50 mg	0.00160 mg	Echelon I Facility
30 mg	0.00128 mg	Echelon I Facility
20 mg	0.00120 mg	Echelon I Facility
10 mg	0.00136 mg	Echelon I Facility

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#### RICE LAKE WEIGHING SYSTEMS

5 mg	0.00106 mg	Echelon I Facility
3 mg	0.00086mg	Echelon I Facility
2 mg	0.00084 mg	Echelon I Facility
1 mg	0.00096 mg	Echelon I Facility
50 kg	99 mg	Echelon II Facility
30 kg	13 mg	Echelon II Facility
20 kg	8 mg	Echelon II Facility
10 kg	1.8 mg	Echelon II Facility
5 kg	0.93 mg	Echelon II Facility
3 kg	0.61 mg	Echelon II Facility
2 kg	0.43 mg	Echelon II Facility
1 kg	0.04 mg	Echelon II Facility
500 g	0.03 mg	Echelon II Facility
300 g	0.03 mg	Echelon II Facility
200 g	0.02 mg	Echelon II Facility
100 g	0.028 mg	Echelon II Facility
50 g	0.014 mg	Echelon II Facility
30 g	0.009 mg	Echelon II Facility

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### CALIBRATION LABORATORIES

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### RICE LAKE WEIGHING SYSTEMS

20 g	0.006 mg	Echelon II Facility
10 g	0.005 mg	Echelon II Facility
5 g	0.0032 mg	Echelon II Facility
3 g	0.0025 mg	Echelon II Facility
2 g	0.0023 mg	Echelon II Facility
1 g	0.0025 mg	Echelon II Facility
500 mg	0.002 mg	Echelon II Facility
300 mg	0.002 mg	Echelon II Facility
200 mg	0.002 mg	Echelon II Facility
100 mg	0.002 mg	Echelon II Facility
50 mg	0.002 mg	Echelon II Facility
30 mg	0.001 mg	Echelon II Facility
20 mg	0.001 mg	Echelon II Facility
10 mg	0.001 mg	Echelon II Facility
5 mg	0.001 mg	Echelon II Facility
3 mg	0.001 mg	Echelon II Facility
2 mg	0.001 mg	Echelon II Facility
1 mg	0.001 mg	Echelon II Facility

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## Scope of Accreditation



### CALIBRATION LABORATORIES

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### RICE LAKE WEIGHING SYSTEMS

1000 kg	20 g	Echelon III Facility
500 kg	6.3 g	Echelon III Facility
200 kg	2.8 g	Echelon III Facility
100 kg	2.7 g	Echelon III Facility
50 kg	100 mg	Echelon III Facility
30 kg	67 mg	Echelon III Facility
20 kg	12 mg	Echelon III Facility
10 kg	2.0 mg	Echelon III Facility
5 kg	1.2 mg	Echelon III Facility
3 kg	1.0 mg	Echelon III Facility
2 kg	0.91 mg	Echelon III Facility
1 kg	0.067 mg	Echelon III Facility
500 g	0.052 mg	Echelon III Facility
300 g	0.046 mg	Echelon III Facility
200 g	0.045 mg	Echelon III Facility
100 g	0.031 mg	Echelon III Facility
50 g	0.016 mg	Echelon III Facility
30 g	0.011 mg	Echelon III Facility

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### CALIBRATION LABORATORIES

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### RICE LAKE WEIGHING SYSTEMS

20 g	0.009 mg	Echelon III Facility
10 g	0.007 mg	Echelon III Facility
5 g	0.002 mg	Echelon III Facility
3 g	0.002 mg	Echelon III Facility
2 g	0.002 mg	Echelon III Facility
1 g	0.002 mg	Echelon III Facility
500 mg	0.002 mg	Echelon III Facility
300 mg	0.002 mg	Echelon III Facility
200 mg	0.002 mg	Echelon III Facility
100 mg	0.002 mg	Echelon III Facility
50 mg	0.002 mg	Echelon III Facility
30 mg	0.001 mg	Echelon III Facility
20 mg	0.001 mg	Echelon III Facility
10 mg	0.001 mg	Echelon III Facility
5 mg	0.001 mg	Echelon III Facility
3 mg	0.001 mg	Echelon III Facility
2 mg	0.001 mg	Echelon III Facility
1 mg	0.001 mg	Echelon III Facility

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### RICE LAKE WEIGHING SYSTEMS

*NVLAP Code:* 20/M08  
Mass Avoirdupois

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>95%</sup></i>	<i>Remarks</i>
2500 lb	21 g	Echelon III Facility
2000 lb	8.6 g	Echelon III Facility
1000 lb	5.5 g	Echelon III Facility
500 lb	2.8 g	Echelon III Facility
250 lb	2.7 g	Echelon III Facility
200 lb	2.7 g	Echelon III Facility
100 lb	71 mg	Echelon III Facility
50 lb	16 mg	Echelon III Facility
30 lb	13 mg	Echelon III Facility
25 lb	10 mg	Echelon III Facility
20 lb	1.9 mg	Echelon III Facility
10 lb	1.2 mg	Echelon III Facility
5 lb	0.92 mg	Echelon III Facility
4 lb	0.86 mg	Echelon III Facility
3 lb	0.86 mg	Echelon III Facility

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### RICE LAKE WEIGHING SYSTEMS

2 lb	0.096 mg	Echelon III Facility
1 lb	0.058 mg	Echelon III Facility
0.5 lb	0.044 mg	Echelon III Facility
0.3 lb	0.048 mg	Echelon III Facility
0.2 lb	0.020 mg	Echelon III Facility
0.1 lb	0.016 mg	Echelon III Facility
0.05 lb	0.009 mg	Echelon III Facility
0.03 lb	0.008 mg	Echelon III Facility
0.02 lb	0.007 mg	Echelon III Facility
0.01 lb	0.002 mg	Echelon III Facility
0.005 lb	0.001 mg	Echelon III Facility
0.003 lb	0.001 mg	Echelon III Facility
0.002 lb	0.001 mg	Echelon III Facility
0.001 lb	0.001 mg	Echelon III Facility
4 oz	0.038 mg	Echelon III Facility
2 oz	0.012 mg	Echelon III Facility
1 oz	0.012 mg	Echelon III Facility
1/2 oz	0.008 mg	Echelon III Facility

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### RICE LAKE WEIGHING SYSTEMS

1/4 oz	0.007 mg	Echelon III Facility
1/8 oz	0.006 mg	Echelon III Facility
1/16 oz	0.006 mg	Echelon III Facility
1/32 oz	0.006 mg	Echelon III Facility

1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .

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