RICE LAKE *Traceable Calibration* CERTIFICATE

ANSI/NCSL Z540-1-1994; Part 1 & ISO/IEC 17025 Accredited

Traceable Report Number: 2406792

Contractor: **STATE OF NEBRASKA**
PO BOX 94757
LINCOLN, NE 68509-0757

Purchase Order Number: 22916

Client: **MIKE JOHNSON**
11748 MAYBERRY PLAZA
OMAHA, NE 68154

Date Received: 29 Feb 2016

Date Calibrated: 02 Mar 2016

Contractor Requested Recall Date: No Recall Requested

Temperature Range: 20.31 °C

Pressure Range: 732.13 mmHg

Relative Humidity Range: 51.53 %

Air Density Range: 1.1536 mg/cm3

NIST Certificate Number: 684/286541-15,684/284451-14
Although there are two NIST numbers, one or both may apply.

Tested By: 22

Procedure: Modified Substitution (WI05-0023)

Description of Weights: 4 kg Satin Finish Weight, NIST Class F, S/N 6H85

		Conventional Mass Corr.									
Nominal Value	ID	As Found (mg)	As Found In Tol	As Left (mg)	As Left In Tol	Unc. (mg)	*k*	Tol.* (mg)	Balance Used	Standard Set Used	Assumed Density (g/cm3)
4 kg	6H85	101	Y	**101**	Y	49	2	400	859Q	D563Q	7.84

☐ This report contains data not covered by the NVLAP Accreditation if the box is checked.

Check with your local state agency for certification of compliance on Legal for Trade items.
The weight tolerance class is referenced in the Description of Weights. Unless otherwise noted, weights tested meet the requirements of the class.
*The specifications for the weight classes can be found in NIST Handbook 105-1, ASTM E-617 or OIML R111.

Prepared By:
Rice Lake Weighing Systems
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An ISO 9001 registered company

Dated 02 Mar 2016

Dan Demers, Metrologist

NVLAP Lab Code 105001-0

This report is not to be used to claim product endorsement by Rice Lake Weighing Systems, NVLAP or any agency of the U.S. Government. This document shall not be reproduced, except in full, without the written approval of Rice Lake Weighing Systems' Metrology Laboratory. Uncertainties are assigned using NIST SOP 29 in conformance with the *GUM* and include uncertainty components for reference standard, process, air buoyancy correction and bias/drift. Not included are magnetism, handling and use. The coverage factor *k* provides a level of confidence of approximately 95 percent.

PN 64784 11/15

The calibration of items is performed according to NISTIR 6969, SOP 8. Tolerances are applied from NISTHB 105-1.

Nominal Mass	Serial Number	Conventional Mass as Found	Tolerance ±	Expanded Uncertainty (U), (k=2), ±	Conventional Mass as Left	Adjusted/ In Tolerance/ Rejected
1000 lb	B10	**453561.7 g**	45 g	6.1 g	**453561.7 g**	In Tolerance
1000 lb	B12	**453431.7 g**	45 g	6.1 g	**453596.8 g**	***Adjusted***
1000 lb	B13	**453518.0 g**	45 g	6.1 g	**453593.8 g**	***Adjusted***
1000 lb	B14	**453512.1 g**	45 g	6.1 g	**453465.3 g**	***Rejected***
1000 lb	B17	**453511.0 g**	45 g	6.1 g	**453592.7 g**	***Adjusted***
1000 lb	B18	**453534.9 g**	45 g	6.1 g	**453594.1 g**	***Adjusted***
1000 lb	B19	**453628.3 g**	45 g	6.1 g	**453628.3 g**	In Tolerance
1000 lb	B2	**453550.1 g**	45 g	6.1 g	**453593.3 g**	***Adjusted***
1000 lb	B20	**453536.1 g**	45 g	6.1 g	**453597.0 g**	***Adjusted***
1000 lb	B21	**453528.2 g**	45 g	6.1 g	**453592.8 g**	***Adjusted***
1000 lb	B22	**453551.5 g**	45 g	6.1 g	**453593.0 g**	***Adjusted***
1000 lb	B23	**453527.2 g**	45 g	6.1 g	**453596.7 g**	***Adjusted***
1000 lb	B3	**453532.8 g**	45 g	6.1 g	**453592.6 g**	***Adjusted***
1000 lb	B4	**453541.2 g**	45 g	6.1 g	**453593.3 g**	***Adjusted***
1000 lb	B5	**453547.6 g**	45 g	6.1 g	**453595.0 g**	***Adjusted***
1000 lb	B6	**453555.6 g**	45 g	6.1 g	**453555.6 g**	In Tolerance
1000 lb	B7	**453577.0 g**	45 g	6.1 g	**453577.0 g**	In Tolerance
1000 lb	B8	**453568.6 g**	45 g	6.1 g	**453568.6 g**	In Tolerance
1000 lb	B9	**453529.2 g**	45 g	6.1 g	**453594.7 g**	***Adjusted***
1000 lb	C-20	**453489.3 g**	45 g	6.1 g	**453595.6 g**	***Adjusted***
1000 lb	OA20	**453562.4 g**	45 g	6.1 g	**453562.4 g**	In Tolerance

The data in the above table of this report only applies to those items specifically listed on this report.

453.59237 g = 1 lb

28.349523125 g = 1 oz