PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Coastal Specialty Gas

55 North 4th Street, Beaumont, TX 77701
6790 Broad Oak, Beaumont, TX 77713

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2005

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated January 2009):

Chemical Calibration
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Initial Accreditation Date:	*Issue Date:*	*Accreditation No.:*	*Certificate No.:*
December 10, 2013	December 10, 2013	76452	L13-251

Tracy Szerszen
President/Operations Manager

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

Coastal Specialty Gas
55 North 4th Street, Beaumont, TX 77701
6790 Broad Oak, Beaumont, TX 77713
Stephen Coombes Phone: 409-838-3747

Accreditation is granted to the facility to perform the following calibrations:

55 North 4th Street, Beaumont, TX 77701

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Calibration Gas Cylinder - Gas mixture concentration	7 µmol/mol to 900 000 µmol/mol	$(1.75 + 5.11 \times 10^{-2}C)$ µmol/mol	Gas Chromatography with Flame Ionization Detector EPA Protocol 600/R-12/531, May 2012
Calibration Gas Cylinder - Gas mixture concentration	130 µmol/mol to 200 000 µmol/mol	$(34.88 + 5.48 \times 10^{-2}C)$ µmol/mol	Gas Chromatography with Thermal Conductivity Detector EPA Protocol 600/R-12/531, May 2012
Calibration Gas Cylinder - Gas mixture concentration	0.1 µmol/mol to 25 µmol/mol	$(2.75 \times 10^{-2} + 5.49 \times 10^{-2}C)$ µmol/mol	Gas Chromatography with Pulsed Discharge Helium Ionization Detector EPA Protocol 600/R-12/531, May 2012
Calibration Gas Cylinder - Gas mixture concentration	3 µmol/mol to 500 µmol/mol	$(7.32 \times 10^{-1} + 5.25 \times 10^{-2}C)$ µmol/mol	Gas Chromatography with Pulsed Flame Photometric Detector EPA Protocol 600/R-12/531, May 2012
Calibration Gas Cylinder - Gas mixture concentration	1 000 µmol/mol to 300 000 µmol/mol	$(218.3 + 1.71 \times 10^{-3}C)$ µmol/mol	Paramagnetic Oxygen Analysis EPA Protocol 600/R-12/531, May 2012
Calibration Gas Cylinder - Gas mixture concentration	1 µmol/mol to 100 µmol/mol	$(1.15 \times 10^{-2} + 3.49 \times 10^{-2}C)$ µmol/mol	Electrochemical Oxygen Analysis EPA Protocol 600/R-12/531, May 2012
Calibration Gas Cylinder - Gas mixture concentration	0.1 µmol/mol to 500 µmol/mol	$(2.46 \times 10^{-2} + 2.40 \times 10^{-2}C)$ µmol/mol	Electrolytic moisture analysis (Meeco Aquavolt+)
Calibration Gas Cylinder - Gas mixture concentration	0.5 µmol/mol to 100 µmol/mol	$(9.30 \times 10^{-2} + 3.41 \times 10^{-2}C)$ µmol/mol	Trace Hydrocarbon Analysis EPA Protocol 600/R-12/531, May 2012
Calibration Gas Cylinder - Gas mixture concentration	0.5 µmol/mol to 50 µmol/mol	$(9.39 \times 10^{-2} + 7.21 \times 10^{-2}C)$ µmol/mol	Electrochemical H2S Analysis EPA Protocol 600/R-12/531, May 2012
Calibration Gas Cylinder - Gas mixture concentration	1 µmol/mol to 50 000 µmol/mol	$(1.06 \times 10^{-1} + 1.14 \times 10^{-1}C)$ µmol/mol	FTIR - Thermo-Nicolet / 6700 / APW100179 EPA Protocol 600/R-12/531, May 2012

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55 North 4th Street, Beaumont, TX 77701
6790 Broad Oak, Beaumont, TX 77713
Stephen Coombes Phone: 409-838-3747

Accreditation is granted to the facility to perform the following calibrations:

6790 Broad Oak, Beaumont, TX 77701

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Calibration Gas Cylinder - Gas mixture concentration	1 µmol/mol to 1 000 000 µmol/mol	0.3 µmol/mol	Gravimetric Balance ISO 6142:2001

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represent the smallest measurement uncertainties attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is expressed at a confidence level of 95 % using a coverage factor *k* (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
3. The term C represents concentration in moles or micromoles appropriate to the uncertainty statement.

Perry Johnson Laboratory Accreditation, Inc.

December 10, 2013

Mr. Stephen Coombes
Coastal Speciality Gas
55 North 4th Street, Beaumont, TX 77701
6790 Broad Oak, Beaumont, TX 77713
2155 I-10 East, Beaumont, TX 77702

Dear Mr. Coombes:

This letter is to confirm that you have successfully completed your accreditation assessment. A certificate has now been granted and posted on our website. As you are aware, PJLA will no longer be issuing expiration dates on our certificates. Your certificate # **L13-251** will remain valid as long as you continue to maintain your annual assessments and reaccreditation assessments as stated in your customer agreement with PJLA. At this time, we have confirmed that your annual assessments will be conducted during the month of **September** each calendar year. This will include an interim surveillance assessment and a full system reassessment to be completed by **September 2015**. Once your reassessment is conducted and approved by our accreditation committee a revised status letter will be provided to you. Please allow PJLA at least 120 days from your assessment due date to issue this letter.

Please feel free to release this letter to any interested parties as confirmation of your certificate validity. Also, please remind them that your certificate is posted on our website at all times. Any changes in regards to your accreditation status will be reflected on our website.

We would like to thank you for your patronage and we look forward to continuously serving your accreditation needs in the future. If we can assist you any further, please feel free to contact us at any time.

Sincerely,

Tracy Szerszen
President/Operations Manager

755 W. Big Beaver Rd. · Suite 1325 · Troy, MI 48084 · Phone: 1-877-369-LABS or 248-519-2603 · Fax: 248-213-0737

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Certificate of Accreditation

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Coastal Specialty Gas

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6790 Broad Oak, Beaumont, TX 77713
2155 I-10 East, Beaumont, TX 77702

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Chemical Testing
(As detailed in the supplement)

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For PJLA:

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December 10, 2013	December 10, 2013	76452	L13-252

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Certificate of Accreditation: Supplement

Coastal Specialty Gas
55 North 4th Street, Beaumont, TX 77701
6790 Broad Oak, Beaumont, TX 77713
2155 I-10 East, Beaumont, TX 77702
Stephen Coombes Phone: 409-838-3747

Accreditation is granted to the facility to perform the following testing:

55 North 4th Street, Beaumont, TX 77701

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical	High Pressure and Cryogenic Gases	Gas Mixture Concentration	Gas Chromatography with Flame Ionization Detector EPA Protocol 600/R-12/531, May 2012	7 µmol/mol to 900 000 µmol/mol (2.1 µmol/mol LoD)
			Gas Chromatography with Thermal Conductivity Detector EPA Protocol 600/R-12/531, May 2012	130 µmol/mol to 200 000 µmol/mol (42 µmol/mol LoD)
			Gas Chromatography with Pulsed Discharge Helium Ionization Detector EPA Protocol 600/R-12/531, May 2012	0.1 µmol/mol to 25 µmol/mol (0.033 µmol/mol LoD)
			Gas Chromatography with Pulsed Flame Photometric Detector EPA Protocol 600/R-12/531, May 2012	3 µmol/mol to 500 µmol/mol (0.89 µmol/mol LoD)
			Electrochemical H2S Analysis EPA Protocol 600/R-12/531, May 2012	0.5 µmol/mol to 50 µmol/mol (0.13 µmol/mol LoD)
			FTIR - Thermo-Nicolet / 6700 / APW100179 EPA Protocol 600/R-12/531, May 2012	1 µmol/mol to 50 000 µmol/mol (0.22 µmol/mol LoD)

Certificate of Accreditation: Supplement

Coastal Specialty Gas
55 North 4th Street, Beaumont, TX 77701
6790 Broad Oak, Beaumont, TX 77713
2155 I-10 East, Beaumont, TX 77702
Stephen Coombes Phone: 409-838-3747

Accreditation is granted to the facility to perform the following testing:

6790 Broad Oak, Beaumont, TX 77701

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical	High Pressure and Cryogenic Gases	Gas Mixture Concentration	Gravimetric Balance ISO 6142:2001	1 µmol/mol to 1 000 000 µmol/mol (0.3 µmol/mol LoD)

2115 I-10 East, Beaumont, TX 77702

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical	High Pressure and Cryogenic Gases	Gas Mixture Concentration	Binary Gas Analyzer (TCD)	50 000 µmol/mol to 1 000 000 µmol/mol (16 000 µmol/mol LoD)

55 North 4th Street, Beaumont, TX 77701 & 2115 I-10 East, Beaumont, TX 77702

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical	High Pressure and Cryogenic Gases	Gas Mixture Concentration	Paramagnetic Oxygen Analysis EPA Protocol 600/R-12/531, May 2012	1 000 µmol/mol to 300 000 µmol/mol (220 µmol/mol LoD)
			Electrochemical Oxygen Analysis EPA Protocol 600/R-12/531, May 2012	1 µmol/mol to 100 µmol/mol (0.015 µmol/mol LoD)
			Electrolytic moisture analysis (Meeco Aquavolt+)	0.2 µmol/mol to 22 µmol/mol (0.037 µmol/mol LoD)
			Trace Hydrocarbon Analysis EPA Protocol 600/R-12/531, May 2012	0.5 µmol/mol to 100 µmol/mol (0.11 µmol/mol LoD)

Perry Johnson Laboratory Accreditation, Inc.

December 10, 2013

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