APPENDIX F

Calibration Gas Certificates / Equipment Calibrations

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2154
Facsimile: (714) 542-6689

DocNumber: 000035385

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
22 ALBISTON WAY
AUBURN ME 042100

Praxair Order Number: 03452243
Customer P. O. Number: 100594
Customer Reference Number:

Fill Date: 2/20/2012
Part Number: EV AIPR8500E-AS
Lot Number: 109205114
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	3/2/2015		NIST Traceable
Cylinder Number:	CC111354		Analytical Uncertainty:
8367	ppm	PROPANE	± 1 %
	Balance	AIR	

Certification Information: *Certification Date:* 3/2/2012 *Term:* 36 Months *Expiration Date:* 3/2/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP I.D.# F22012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1 . Component: PROPANE

Requested Concentration: 8500 ppm
Certified Concentration: 8367 ppm
Instrument Used: HP 5890 Series II S/N 3108A34409
Analytical Method: GC/ Thermal Conductivity
Last Multipoint Calibration: 2/11/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC 163608
Ref. Std. Conc: 1.01 %
Ref. Std. Traceable to SRM # : vs. 2647a
SRM Sample # : 104-4-B
SRM Cylinder # : FF 26607

First Analysis Data:						Date:	3/2/2012
Z:	0	R:	710830	C:	587712	Conc:	8361
R:	709107	Z:	0	C:	587699	Conc:	8370
Z:	0	C:	587041	R:	707581	Conc:	8379
UOM:	uV			Mean Test Assay:			8367 ppm

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	uV			Mean Test Assay:			0 ppm

Analyzed by: Rolonda Kaywood

Certified by: Shameela Jiffrey

Information contained herein has been prepared at your request by qualified experts within Praxair Distribution, Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Praxair Distribution, Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.

PRAXAIR

Praxair Distribution Mid-Atlantic
145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000016191

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
22 ALBISTON WAY
AUBURN ME 042100

Praxair Order Number: 03452234
Customer P. O. Number: 100594
Customer Reference Number:

Fill Date: 2/17/2012
Part Number: AI PR6000E-AS
Lot Number: 917206147
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 1640 psig 112 cu. ft.

Certified Concentration:

Expiration Date:	2/22/2015		NIST Traceable
Cylinder Number:	CC311566		Analytical Uncertainty:
5052	ppm	PROPANE	± 1 %
	Balance	AIR	

Certifcation Information: *Certification Date:* 2/22/2012 *Term:* 36 Months *Expiration Date:* 2/22/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard If Pressure Is less than 150 PSIG

PGVP ID#F12012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: PROPANE

Requested Concentration: 5000 ppm
Certified Concentration: 5052 ppm
Instrument Used: VARIAN 3300 INST 023 (PROPANE)
Analytical Method: FID
Last Multipoint Calibration: 2/9/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder #: ND22127
Ref. Std. Conc: 4943 PPM
Ref. Std. Traceable to SRM #: 2648a
SRM Sample #: 105-C-16
SRM Cylinder #: XF000465B

First Analysis Data:						Date:	2/22/2012
Z:	0	R:	4943.4	C:	5046.6	Conc:	5047
R:	4943.8	Z:	0	C:	5055.3	Conc:	5055.7
Z:	0	C:	5052.2	R:	4940.7	Conc:	5052.6
UOM:	PPM			Mean Test Assay:			5051.7 PPM

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: Robin Morgan

Certified by: Michelle Kostik

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SPECIALTY GASES OF AMERICA, INC.
AMERICAN INDUSTRIAL GASES, INC.
AMERICAN RARE GASES, INC.

6055 BRENT DR. TOLEDO, OH 43611
419-729-7732 FAX 419-729-2411

THE AMERICAN GAS GROUP

www.americangasgroup.com

ANALYTICAL REPORT

Certificate ID:	063010030	**Date:**	6/30/2010
Customer Name:	Maine Oxy, Hookset		
Customer Address:	Attn: Tim Williams 81 Londonerry TPKE Hooksett NH 03106		
Purchase Order:	JAJ00523	**Work Order:**	105274-05
Lot Number:	0617SK10	**Product Name:**	2-Component Mixture, EPA Protocol
Size:	31A	**Pressure:**	2275 psig @ 88 Deg F
Content:	N/A		
Serial #:	CC300258		
Analysis Date:	6/30/2010		
Shelf Life:	36 months	**Expiration Date:**	6/30/2013

Component	Nominal	Actual	Accuracy	Method
Propane	3000 ppm	3140 ppm	+/- 2% rel	FID
Air	Balance	Balance		

REFERENCE STANDARD	Std Type	Std #	Cyl #	Concentration	Exp Date
	GMIS	0430AA08	EB00001262	541.3000	4/29/2012

INSTRUMENTATION	Instrument / ID	Component
	CAI 300S-HFID	C3H8

Note: * ANALYZED ACCORDING TO EPA TRACEABILITY PROTOCOL FOR ASSAY AND CERTIFICATION OF GASEOUS CALIBRATION STANDARDS - SEPTEMBER 1997:G2
* DO NOT USE STANDARD WHEN PRESSURE IS BELOW 150 PSIG

Protocal
Specialty Gases of America, Inc.

Issued by: Josh Jones

PRAXAIR

Praxair Distribution Mid-Atlantic
145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000005851

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
179 BOSTON RD
SOUTHBOURGH MA 017720

Praxair Order Number: 02464617
Customer P. O. Number: 67177
Customer Reference Number:

Fill Date: 8/6/2010
Part Number: AI PR900E-AS
Lot Number: 917021863
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	8/10/2013	NIST Traceable
Cylinder Number:	CC272026	Analytical Uncertainty:
903.9 ppm	PROPANE	± 1 %
Balance	AIR	

Certification Information: *Certification Date:* 8/10/2010 *Term:* 36 Months *Expiration Date:* 8/10/2013

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. **Component:** PROPANE

Requested Concentration: 900 ppm
Certified Concentration: 903.9 ppm
Instrument Used: VARIAN 3300 INST 023 (PROPANE)
Analytical Method: FID
Last Multipoint Calibration: 7/26/2010

Reference Standard Type: GMIS
Ref. Std. Cylinder #: CC154870
Ref. Std. Conc: 997.1 PPM
Ref. Std. Traceable to SRM #: 2647a
SRM Sample #: 104-C-40
SRM Cylinder #: XF003191B

First Analysis Data:				Date:	8/10/2010
Z: 0	R: 1001.2	C: 905.3	Conc:	900.90	
R: 1001.7	Z: 0	C: 909.7	Conc:	905.28	
Z: 0	C: 909.9	R: 1003	Conc:	905.48	
UOM: PPM		Mean Test Assay:		903.89 PPM	

Second Analysis Data:				Date:	
Z: 0	R: 0	C: 0	Conc:	0	
R: 0	Z: 0	C: 0	Conc:	0	
Z: 0	C: 0	R: 0	Conc:	0	
UOM: PPM		Mean Test Assay:		0 PPM	

Analyzed by:

John Pribish

Certified by:

Ashley Davila

Information contained herein has been prepared at your request by qualified experts within Praxair Distribution, Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Praxair Distribution, Inc., arising out of the use of the information con tained herein exceed the fee established for providing such information.

Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Airgas Specialty Gases
600 Union Landing Road
Riverton, NJ 08077
(856) 829-7878
Fax (856) 829-0571
www.airgas.com

Part Number:	E02AI99E15A0332	Reference Number:	82-124248636-1
Cylinder Number:	CC346394	Cylinder Volume:	146 Cu.Ft.
Laboratory:	ASG - Riverton - NJ	Cylinder Pressure:	2015 PSIG
Analysis Date:	Jan 14, 2011	Valve Outlet:	590

Expiration Date: Jan 14, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
PROPANE	500.0 PPM	501.7 PPM	G1	+/-1% NIST Traceable
Air	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	00051911	SG9150347BAL	483.6PPM PROPANE/NITROGEN	Jul 01, 2013

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 470 AEP0000416 C3H8	FTIR	Jan 14, 2011

Triad Data Available Upon Request

Notes:

C. Mokyelewski

Approved for Release

#5000

PRAXAIR

Praxair Distribution Mid-Atlantic
145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000016573

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
22 ALBISTON WAY
AUBURN ME 042100

Praxair Order Number: 03486140
Customer P. O. Number: 101895
Customer Reference Number:

Fill Date: 3/5/2012
Part Number: AI PR300E-AS
Lot Number: 917206549
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	3/12/2015	NIST Traceable
Cylinder Number:	CC350652	Analytical Uncertainty:
297.3 ppm	PROPANE	± 1 %
Balance	AIR	

Certification Information: *Certification Date:* 3/12/2012 *Term:* 36 Months *Expiration Date:* 3/12/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP ID#F12012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: PROPANE

Requested Concentration: 300 ppm
Certified Concentration: 297.3 ppm
Instrument Used: VARIAN 3300 INST 023 (PROPANE)
Analytical Method: FID
Last Multipoint Calibration: 3/7/2012

First Analysis Data:						Date:	3/12/2012
Z:	0	R:	497	C:	296.7	Conc:	297.6
R:	498.8	Z:	0	C:	296.1	Conc:	296.89
Z:	0	C:	296.7	R:	496.9	Conc:	297.5
UOM:	PPM			Mean Test Assay:			297.3 PPM

Reference Standard Type: GMIS
Ref. Std. Cylinder #: CC138766
Ref. Std. Conc: 498.9 PPM
Ref. Std. Traceable to SRM #: 1669b
SRM Sample #: 81-H-33
SRM Cylinder #: XF003779B

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Pribish

Certified by: Michelle Kostik

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PRAXAIR

Praxair Distribution Mid-Atlantic
145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000012916

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
47 SUMNER STREET
MILFORD MA 017570

Praxair Order Number: 03114048
Customer P. O. Number: 87416
Customer Reference Number:

Fill Date: 8/22/2011
Part Number: EV AIME85ME-AS
Lot Number: 917123446
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	8/26/2014		NIST Traceable
Cylinder Number:	CC9110		Analytical Uncertainty:
88.2	ppm	METHANE	± 1 %
	Balance	AIR	

#17

Certification Information: *Certification Date:* 8/26/2011 *Term:* 36 Months *Expiration Date:* 8/26/2014

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP ID#F12011

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1 . Component: METHANE

Requested Concentration: 85 ppm
Certified Concentration: 88.2 ppm
Instrument Used: HP 5890, LR473659C
Analytical Method: GC/FID
Last Multipoint Calibration: 8/16/2011

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC16577
Ref. Std. Conc: 100.0
Ref. Std. Traceable to SRM # : 2751
SRM Sample # : 212-C-52
SRM Cylinder # : FF23122

First Analysis Data:							Date:	8/26/2011
Z:	0	R:	100	C:	88.42	Conc:	88.244	
R:	100.3	Z:	0	C:	88.41	Conc:	88.234	
Z:	0	C:	88.28	R:	100.3	Conc:	88.104	
UOM:	PPM			Mean Test Assay:			88.194 PPM	

Second Analysis Data:							Date:	
Z:	0	R:	0	C:	0	Conc:	0	
R:	0	Z:	0	C:	0	Conc:	0	
Z:	0	C:	0	R:	0	Conc:	0	
UOM:	PPM			Mean Test Assay:			0 PPM	

Analyzed by: John Pribish 8/26/11

Certified by: MK 8/26/11 Michelle Kostik

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PRAXAIR

Praxair Distribution Mid-Atlantic
145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000012913

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
47 SUMNER STREET
MILFORD MA 017570

Praxair Order Number: 03114048
Customer P. O. Number: 87416
Customer Reference Number:

Fill Date: 8/22/2011
Part Number: AI ME60ME-AS
Lot Number: 917123447
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	8/26/2014	NIST Traceable
Cylinder Number:	CC78508	Analytical Uncertainty:
50.9 ppm	METHANE	± 1 %
Balance	AIR	

A10
9-19-11

Certification Information: *Certification Date:* 8/26/2011 *Term:* 36 Months *Expiration Date:* 8/26/2014

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1
Do Not Use this Standard if Pressure is less than 150 PSIG
PGVP ID#F12011

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: METHANE

Requested Concentration: 50 ppm
Certified Concentration: 50.9 ppm
Instrument Used: HP 5890, LR47359C
Analytical Method: GC/FID
Last Multipoint Calibration: 8/16/2011

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC15577
Ref. Std. Conc: 100.0
Ref. Std. Traceable to SRM # : 2751
SRM Sample # : 212-C-52
SRM Cylinder # : FF23122

First Analysis Data:						Date:	8/26/2011
Z:	0	R:	100	C:	50.98	Conc:	50.878
R:	100	Z:	0	C:	50.98	Conc:	50.878
Z:	0	C:	50.98	R:	100.6	Conc:	50.878
UOM:	PPM			Mean Test Assay:			50.878 PPM

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Pribish 8/26/11

Certified by: Ashley Davila

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PRAXAIR

Praxair Distribution Mid-Atlantic
145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000012914

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
47 SUMNER STREET
MILFORD MA 017570

Praxair Order Number: 03114048
Customer P. O. Number: 87416
Customer Reference Number:

Fill Date: 8/22/2011
Part Number: AI ME30ME-AS
Lot Number: 917123446
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	8/26/2014	NIST Traceable
Cylinder Number:	CC80798	Analytical Uncertainty:
30.6 ppm	METHANE	± 1 %
Balance	AIR	

#12
9-19-11

Certification Information: *Certification Date:* 8/26/2011 *Term:* 36 Months *Expiration Date:* 8/26/2014

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard If Pressure is less than 150 PSIG

PGVP ID#F12011

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: METHANE

Requested Concentration: 30 ppm
Certified Concentration: 30.6 ppm
Instrument Used: HP 5890, LR47359C
Analytical Method: GC/FID
Last Multipoint Calibration: 8/16/2011

Reference Standard Type: GMIS
Ref. Std. Cylinder # : ND17986
Ref. Std. Conc: 100.0
Ref. Std. Traceable to SRM # : 2751
SRM Sample # : 212-C-52
SRM Cylinder # : FF28122

First Analysis Data:						Date:	8/26/2011
Z:	0	R:	100	C:	30.69	Conc:	30.629
R:	100.3	Z:	0	C:	30.54	Conc:	30.479
Z:	0	C:	30.55	R:	100.3	Conc:	30.489
UOM:	PPM			Mean Test Assay:			30.532 PPM

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Pilsh 8/26/11

Certified by: Robin Morgan

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PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2154
Facsimile: (714) 542-6689

DocNumber: 000036564

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

WELCO CGI GAS TECH LLC GAS
PO BOX 1377
DES MOINES IA 503050

Praxair Order Number: 19725693
Customer P. O. Number: 3519338-MAINE
Customer Reference Number:

Fill Date: 3/27/2012
Part Number: EV AIPR8500E-AS
Lot Number: 109208701
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	4/2/2015		NIST Traceable
Cylinder Number:	CC110684		Analytical Uncertainty:
8483	ppm	PROPANE	± 1 %
	Balance	AIR	

Certification Information: *Certification Date:* 4/2/2012 *Term:* 36 Months *Expiration Date:* 4/2/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP I.D.# F22012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: PROPANE

Requested Concentration: 8500 ppm
Certified Concentration: 8483 ppm
Instrument Used: HP 5890 Series II S/N 3108A34408
Analytical Method: GC/ Thermal Conductivity
Last Multipoint Calibration: 3/11/2012

First Analysis Data:						Date:	3/30/2012
Z:	0	R:	23635	C:	19950	Conc:	8525
R:	23625	Z:	0	C:	19738	Conc:	8474
Z:	0	C:	19582	R:	23406	Conc:	8460
UOM:	uV			Mean Test Assay:			8483 ppm

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC 163606
Ref. Std. Conc: 1.01 %
Ref. Std. Traceable to SRM # : vs. 2647a
SRM Sample # : 104-4-B
SRM Cylinder # : FF 26807

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	uV			Mean Test Assay:			0 ppm

Analyzed by: Rolonda Kaywood

Certified by: Shameela Jiffrey

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PRAXAIR

Praxair Distribution Mid-Atlantic
145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000016765

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
22 ALBISTON WAY
AUBURN ME 042100

Praxair Order Number: 03519131
Customer P. O. Number: 103290
Customer Reference Number:

Fill Date: 3/20/2012
Part Number: AI PR5000E-AS
Lot Number: 917208047
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 1280 psig 91cu. ft.

Certified Concentration:

Expiration Date:	3/26/2015		NIST Traceable
Cylinder Number:	SA20684		Analytical Uncertainty:
5010	ppm	PROPANE	± 1 %
	Balance	AIR	

Certification Information: *Certification Date:* 3/26/2012 *Term:* 36 Months *Expiration Date:* 3/26/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP ID#F12012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: PROPANE

Requested Concentration: 5000 ppm
Certified Concentration: 5010 ppm
Instrument Used: VARIAN 3300 INST 023 (PROPANE)
Analytical Method: FID
Last Multipoint Calibration: 3/7/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder # : ND22127
Ref. Std. Conc: 4943 PPM
Ref. Std. Traceable to SRM # : 2648a
SRM Sample # : 105-C-16
SRM Cylinder # : XF000465B

First Analysis Data:						Date:	3/26/2012
Z:	0	R:	4941.5	C:	5010	Conc:	5009.5
R:	4945	Z:	0	C:	5009.4	Conc:	5008.9
Z:	0	C:	5013.5	R:	4943.9	Conc:	5013.0
UOM:	PPM			Mean Test Assay:			5010.5 PPM

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Pribish

Certified by: Michelle Kostik

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PRAXAIR

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145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000016767

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
22 ALBISTON WAY
AUBURN ME 042100

Praxair Order Number: 03519131
Customer P. O. Number: 103290
Customer Reference Number:

Fill Date: 3/20/2012
Part Number: AI PR3000E-AS
Lot Number: 917208049
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	3/26/2015		NIST Traceable
Cylinder Number:	SA3275		Analytical Uncertainty:
3066	ppm	PROPANE	± 1 %
	Balance	AIR	

Certification Information: *Certification Date:* 3/26/2012 *Term:* 36 Months *Expiration Date:* 3/26/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP ID#F12012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: PROPANE

Requested Concentration: 3000 ppm
Certified Concentration: 3066 ppm
Instrument Used: VARIAN 3300 INST 023 (PROPANE)
Analytical Method: FID
Last Multipoint Calibration: 3/7/2012

First Analysis Date:						Date:	3/26/2012
Z:	0	R:	4941.5	C:	3062.9	Conc:	3062.6
R:	4945	Z:	0	C:	3068.8	Conc:	3068.5
Z:	0	C:	3068.7	R:	4943.9	Conc:	3068.4
UOM:	PPM			Mean Test Assay:			3066.5 PPM

Reference Standard Type: GMIS
Ref. Std. Cylinder # : ND22127
Ref. Std. Conc: 4943 PPM
Ref. Std. Traceable to SRM # : 2648a
SRM Sample # : 105-C-16
SRM Cylinder # : XF000465B

Second Analysis Date:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Ribish

Certified by: Robin Morgan

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PRAXAIR

Praxair Distribution Mid-Atlantic
145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
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DocNumber: 000016768

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
22 ALBISTON WAY
AUBURN ME 042100

Praxair Order Number: 03519131
Customer P. O. Number: 103290
Customer Reference Number:

Fill Date: 3/20/2012
Part Number: EV AIPR850ME-AS
Lot Number: 917208050
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	3/26/2015		NIST Traceable
Cylinder Number:	CC50868		Analytical Uncertainty:
866.9	ppm	PROPANE	± 1 %
	Balance	AIR	

Certifcation Information: *Certification Date:* 3/26/2012 *Term:* 36 Months *Expiration Date:* 3/26/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP ID#F12012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: PROPANE

Requested Concentration: 850 ppm
Certified Concentration: 866.9 ppm
Instrument Used: VARIAN 3300 INST 023 (PROPANE)
Analytical Method: FID
Last Multipoint Calibration: 3/7/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC103865
Ref. Std. Conc: 749.6 PPM
Ref. Std. Traceable to SRM # : 2646a
SRM Sample # : 103-C-23
SRM Cylinder # : XF000820B

First Analysis Data:						Date:	3/26/2012
Z:	0	R:	750.2	C:	868.2	Conc:	867.66
R:	750.3	Z:	0	C:	869.2	Conc:	868.66
Z:	0	C:	864.9	R:	749.7	Conc:	864.36
UOM:	PPM			Mean Test Assay:			866.89 PPM

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Pribish

Certified by: Michelle Kostik

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PRAXAIR

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Telephone: (610) 317-1608
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DocNumber: 000016771

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
22 ALBISTON WAY
AUBURN ME 042100

Praxair Order Number: 03519131
Customer P. O. Number: 103290
Customer Reference Number:

Fill Date: 3/21/2012
Part Number: EV AIPR500ME-AS
Lot Number: 917208147
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	3/26/2015		NIST Traceable
Cylinder Number:	CC248679		Analytical Uncertainty:
515.4	ppm	PROPANE	± 1 %
	Balance	AIR	

Certification Information: *Certification Date:* 3/26/2012 *Term:* 36 Months *Expiration Date:* 3/26/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP ID#F12012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: PROPANE

Requested Concentration: 500 ppm
Certified Concentration: 515.4 ppm
Instrument Used: VARIAN 3300 INST 023 (PROPANE)
Analytical Method: FID
Last Multipoint Calibration: 3/7/2012

First Analysis Data:						Date:	3/26/2012
Z:	-0	R:	750.2	C:	513.3	Conc:	512.98
R:	750.3	Z:	0	C:	516.9	Conc:	516.56
Z:	0	C:	516.8	R:	749.7	Conc:	516.46
UOM:	PPM			Mean Test Assay:			515.35 PPM

Reference Standard Type: GMIS
Ref. Std. Cylinder #: CC103865
Ref. Std. Conc: 749.6 PPM
Ref. Std. Traceable to SRM #: 2646a
SRM Sample #: 103-C-23
SRM Cylinder #: XF000820B

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Pribish

Certified by: Michelle Kostik

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Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000016573

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
22 ALBISTON WAY
AUBURN ME 042100

Praxair Order Number: 03486140
Customer P. O. Number: 101895
Customer Reference Number:

Fill Date: 3/5/2012
Part Number: AI PR300E-AS
Lot Number: 917206549
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	3/12/2015		NIST Traceable
Cylinder Number:	CC350652		Analytical Uncertainty:
297.3	ppm	PROPANE	± 1 %
	Balance	AIR	

Certification Information: *Certification Date:* 3/12/2012 *Term:* 36 Months *Expiration Date:* 3/12/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP ID#F12012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: PROPANE

Requested Concentration: 300 ppm
Certified Concentration: 297.3 ppm
Instrument Used: VARIAN 3300 INST 023 (PROPANE)
Analytical Method: FID
Last Multipoint Calibration: 3/7/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC138766
Ref. Std. Conc: 498.9 PPM
Ref. Std. Traceable to SRM # : 1669b
SRM Sample # : 81-H-38
SRM Cylinder # : XF003779B

First Analysis Data:						Date:	3/12/2012
Z:	0	R:	497	C:	296.7	Conc:	297.5
R:	498.8	Z:	0	C:	296.1	Conc:	296.69
Z:	0	C:	296.7	R:	496.9	Conc:	297.5
UOM:	PPM			Mean Test Assay:			297.3 PPM

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Pribish

Certified by: Michelle Kostik

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PRAXAIR

Praxair Distribution Mid-Atlantic
145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000012916

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
47 SUMNER STREET
MILFORD MA 017570

Praxair Order Number: 03114048
Customer P. O. Number: 87416
Customer Reference Number:

Fill Date: 8/22/2011
Part Number: EV AIME85ME-AS
Lot Number: 917123446
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	8/26/2014		NIST Traceable
Cylinder Number:	CC9110		Analytical Uncertainty:
88.2 ppm	METHANE		± 1 %
Balance	AIR		

Certification Information: *Certification Date:* 8/26/2011 *Term:* 36 Months *Expiration Date:* 8/26/2014

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP ID#P12011

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: METHANE

Requested Concentration: 85 ppm
Certified Concentration: 88.2 ppm
Instrument Used: HP 5890, LR47359C
Analytical Method: GC/FID
Last Multipoint Calibration: 8/16/2011

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC15677
Ref. Std. Conc: 100.0
Ref. Std. Traceable to SRM # : 2751
SRM Sample # : 212-C-52
SRM Cylinder # : FF23122

First Analysis Data:						Date:	8/26/2011
Z:	0	R:	100	C:	88.42	Conc:	88.244
R:	100.3	Z:	0	C:	88.41	Conc:	88.234
Z:	0	C:	88.28	R:	100.3	Conc:	88.104
UOM:	PPM			Mean Test Assay:			88.194 PPM

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Pribish 8/26/11

Certified by: Michelle Kostik 8/26/11

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PRAXAIR

Praxair Distribution Mid-Atlantic
145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000012913

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
47 SUMNER STREET
MILFORD MA 017570

Praxair Order Number: 03114048
Customer P. O. Number: 87416
Customer Reference Number:

Fill Date: 8/22/2011
Part Number: AI ME60ME-AS
Lot Number: 917123447
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	8/26/2014		NIST Traceable
Cylinder Number:	CC78508		Analytical Uncertainty:
50.9	ppm	METHANE	± 1 %
	Balance	AIR	

A10
9-19-11

Certification Information: *Certification Date:* 8/26/2011 *Term:* 36 Months *Expiration Date:* 8/26/2014

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1
Do Not Use this Standard if Pressure is less than 150 PSIG
PGVP ID#F12011

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: METHANE

Requested Concentration: 60 ppm
Certified Concentration: 60.9 ppm
Instrument Used: HP 5890, LR47369C
Analytical Method: GC/FID
Last Multipoint Calibration: 8/16/2011

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC15577
Ref. Std. Conc: 100.0
Ref. Std. Traceable to SRM # : 2751
SRM Sample # : 212-C-52
SRM Cylinder # : FF23122

First Analysis Data:						Date:	8/26/2011
Z:	0	R:	100	C:	50.98	Conc:	50.878
R:	100	Z:	0	C:	50.98	Conc:	50.878
Z:	0	C:	50.98	R:	100.6	Conc:	50.878
UOM:	PPM			Mean Test Assay:			50.878 PPM

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Pribish 8/26/11

Certified by: Ashley Davila

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PRAXAIR

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145 Shimersville Rd.
Bethlehem, PA 18015
Telephone: (610) 317-1608
Facsimile: (610) 758-8382

DocNumber: 000012914

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

MAINE OXY
47 SUMNER STREET
MILFORD MA 017570

Praxair Order Number: 03114048
Customer P. O. Number: 87416
Customer Reference Number:

Fill Date: 8/22/2011
Part Number: AI ME30ME-AS
Lot Number: 917123445
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	8/26/2014	NIST Traceable
Cylinder Number:	CC80798	Analytical Uncertainty:
30.5 ppm	METHANE	± 1 %
Balance	AIR	

#12
9-19-11

Certification Information: *Certification Date:* 8/26/2011 *Term:* 36 Months *Expiration Date:* 8/26/2014

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

PGVP ID#F12011

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: METHANE

Requested Concentration: 30 ppm
Certified Concentration: 30.5 ppm
Instrument Used: HP 5890, LR47359C
Analytical Method: GC/FID
Last Multipoint Calibration: 8/16/2011

Reference Standard Type: GMIS
Ref. Std. Cylinder # : ND17985
Ref. Std. Conc: 100.0
Ref. Std. Traceable to SRM # : 2751
SRM Sample # : 212-C-52
SRM Cylinder # : FF23122

First Analysis Data:						Date:	8/26/2011
Z:	0	R:	100	C:	30.69	Conc:	30.629
R:	100.3	Z:	0	C:	30.54	Conc:	30.479
Z:	0	C:	30.65	R:	100.3	Conc:	30.489
UOM:	PPM			Mean Test Assay:			30.532 PPM

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	PPM			Mean Test Assay:			0 PPM

Analyzed by: John Pribish 8/26/11

Certified by: Robin Morgan

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PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2154
Facsimile: (714) 542-6689

DocNumber: 000036565

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

WELCO CGI GAS TECH LLC GAS
PO BOX 1377
DES MOINES IA 503050

Praxair Order Number: 19725593
Customer P. O. Number: 3519338-MAINE
Customer Reference Number:

Fill Date: 3/27/2012
Part Number: EV AIME850ME-AS
Lot Number: 109206702
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	4/2/2015	NIST Traceable
Cylinder Number:	SA1610	Analytical Uncertainty:
820 ppm	METHANE	± 2 %
Balance	AIR	

Certification Information: *Certification Date:* 4/2/2012 *Term:* 36 Months *Expiration Date:* 4/2/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G2

Do Not Use this Standard if Pressure is less than 150 PSIG

G2 analysis was done using STEC INC SGD-710 @ 20% {c.f.=0.2}
PGVP I.D.# F22012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: METHANE

Requested Concentration: 850 ppm
Certified Concentration: 820 ppm
Instrument Used: HORIBA, FIA-510, 861135122
Analytical Method: Flame Ionization Detector
Last Multipoint Calibration: 3/11/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC 8633
Ref. Std. Conc: 229 ppm
Ref. Std. Traceable to SRM # : vs. 2751
SRM Sample # : 212-09-AL
SRM Cylinder # : SX-20000

First Analysis Data:						Date:	4/2/2012
Z:	0	R:	229	C:	164.5	Conc:	164
R:	229	Z:	0	C:	164.2	Conc:	164
Z:	0	C:	164.1	R:	229	Conc:	164
UOM:	ppm			Mean Test Assay:			164 ppm

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	ppm			Mean Test Assay:			0 ppm

Analyzed by: Rolonda Kaywood

Certified by: Shameela Jiffrey

Information contained herein has been prepared at your request by qualified experts within Praxair Distribution, Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Praxair Distribution, Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2154
Facsimile: (714) 542-6689

DocNumber: 000036567

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

WELCO CGI GAS TECH LLC GAS
PO BOX 1377
DES MOINES IA 503050

Praxair Order Number: 19725693
Customer P. O. Number: 3519338-MAINE
Customer Reference Number:

Fill Date: 3/27/2012
Part Number: EV AIME600ME-AS
Lot Number: 109208703
Cylinder Style & Outlet: AS OGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	4/2/2015		NIST Traceable
Cylinder Number:	SA15203		Analytical Uncertainty:
485	ppm	METHANE	± 2 %
	Balance	AIR	

Certification Information: *Certification Date:* 4/2/2012 *Term:* 36 Months *Expiration Date:* 4/2/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G2

Do Not Use this Standard if Pressure is less than 150 PSIG

G2 analysis was done using STEC INC SGD-710 @ 40% {c.f.=0.4}
PGVP I.D.# F22012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: METHANE

Requested Concentration: 500 ppm
Certified Concentration: 485 ppm
Instrument Used: HORIBA, FIA-510, 651135122
Analytical Method: Flame Ionization Detector
Last Multipoint Calibration: 3/11/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC 8633
Ref. Std. Conc: 229 ppm
Ref. Std. Traceable to SRM # : vs. 2751
SRM Sample # : 212-09-AL
SRM Cylinder # : SX-20000

First Analysis Data:						Date:	4/2/2012
Z:	0	R:	229	C:	194.4	Conc:	194
R:	229	Z:	0	C:	194	Conc:	194
Z:	0	C:	194	R:	229	Conc:	194
UOM:	ppm			Mean Test Assay:			194 ppm

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	ppm			Mean Test Assay:			0 ppm

Analyzed by: Rolonda Raywood

Certified by: Shameela Jiffrey

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PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2154
Facsimile: (714) 542-6689

DocNumber: 000036571

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

WELCO CGI GAS TECH LLC GAS
PO BOX 1377
DES MOINES IA 503050

Praxair Order Number: 19725693
Customer P. O. Number: 3519338-MAINE
Customer Reference Number:

Fill Date: 3/27/2012
Part Number: EV AIME300ME-AS
Lot Number: 109208704
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	4/2/2015	NIST Traceable
Cylinder Number:	CC198791	Analytical Uncertainty:
290 ppm	METHANE	± 2 %
Balance	AIR	

Certification Information: *Certification Date:* 4/2/2012 *Term:* 36 Months *Expiration Date:* 4/2/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G2

Do Not Use this Standard if Pressure is less than 150 PSIG

G2 analysis was done using STEC INC SGD-710 @ 70% {c.f.=0.7}
PGVP I.D.# F22012

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: METHANE

Requested Concentration: 300 ppm
Certified Concentration: 290 ppm
Instrument Used: HORIBA, FIA-510, 851135122
Analytical Method: Flame Ionization Detector
Last Multipoint Calibration: 3/11/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC 8633
Ref. Std. Conc: 229 ppm
Ref. Std. Traceable to SRM # : vs. 2751
SRM Sample # : 212-09-AL
SRM Cylinder # : SX-20000

First Analysis Data:						Date:	4/2/2012
Z:	0	R:	229	C:	202.9	Conc:	203
R:	229	Z:	0	C:	203.1	Conc:	203
Z:	0	C:	202.6	R:	229	Conc:	203
UOM:	ppm			Mean Test Assay:			203 ppm

Second Analysis Data:						Date:	
Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0
UOM:	ppm			Mean Test Assay:			0 ppm

Analyzed by: Rolonda Kaywood

Certified by: Shameela Jiffrey

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