



ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

EPD Director's Office

2 Martin Luther King, Jr. Drive
Suite 1456, East Tower
Atlanta, Georgia 30334
404-656-4713

November 20, 2019

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington October 12 – October 30 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected in October by the Ambient Monitoring Program in the Covington area to characterize the EtO concentration. Each of the samples were sent to Eastern Research Group (ERG) for analysis. Samples listed in the table below as ND were reported below the method detection limit of 0.0452 ug/m^3 . The samples listed as X indicate that the sample was not collected properly. The sample listed as QA is a sample taken side by side during the same time period to compare the precision of the measurement. No samples were taken at location C6 during this period. The Qualifier code of "2" was given two samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised.

Location	Date	Qualifier	EtO Concentration (ug/m3)
C1	10/12/2019		ND
C1	10/18/2019		X
C1	10/24/2019		X
C1	10/27/2019		2.6
C1	10/30/2019		0.37
C2	10/12/2019		X
C2	10/18/2019	2	ND
C2	10/24/2019		X
C2	10/27/2019		ND
C2	10/30/2019		ND
C3	10/12/2019		ND
C3	10/18/2019		0.53
C3	10/24/2019		ND
C3	10/27/2019		0.42
C3	10/30/2019		0.42

C4		10/12/2019		ND
C4		10/18/2019		0.78
C4		10/24/2019		2.35
C4		10/27/2019		ND
C4		10/30/2019		ND
C4 QA		10/30/2019		ND
C5		10/30/2019	2	ND
C7		10/30/2019		ND
C8		10/30/2019		0.35
C9		10/30/2019		ND

If you have any questions, please let me know.

DGO/do



Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

November 15, 2019

Ms. Jaime Gore
U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
Project Name: Covington

Dear Ms. Jaime Gore,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 10/18/19 10:26 through 11/01/19 10:56.

The test results in this report are in compliance with NELAC accreditation requirements for the certified parameters. All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4222.00
REPORTED: 11/15/19 15:08
SUBMITTED: 10/18/19 to 11/01/19
AQS SITE CODE:
SITE CODE: Covington

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
C1	9101803-01	Air	10/12/19 23:59	10/18/19 10:26
C3	9101803-02	Air	10/12/19 23:59	10/18/19 10:26
C4	9101803-03	Air	10/12/19 23:59	10/18/19 10:26
C3	9102507-01	Air	10/18/19 23:59	10/25/19 10:19
C4	9102507-03	Air	10/18/19 23:59	10/25/19 10:19
C2	9102507-04	Air	10/18/19 23:59	10/25/19 10:19
C1	9103069-01	Air	10/27/19 23:59	10/30/19 11:28
C2	9103069-02	Air	10/27/19 23:59	10/30/19 11:28
C3	9103069-03	Air	10/24/19 23:59	10/30/19 11:28
C3	9103069-04	Air	10/27/19 23:59	10/30/19 11:28
C4	9103069-05	Air	10/24/19 23:59	10/30/19 11:28
C4	9103069-06	Air	10/27/19 23:59	10/30/19 11:28
C1	9110118-01	Air	10/30/19 23:59	11/01/19 10:56
C2	9110118-02	Air	10/30/19 23:59	11/01/19 10:56
C3	9110118-03	Air	10/30/19 23:59	11/01/19 10:56
C4 C1	9110118-04	Air	10/30/19 23:59	11/01/19 10:56
C4 C2	9110118-05	Air	10/30/19 23:59	11/01/19 10:56
C5	9110118-06	Air	10/30/19 23:59	11/01/19 10:56
C7	9110118-07	Air	10/30/19 23:59	11/01/19 10:56
C8	9110118-08	Air	10/30/19 23:59	11/01/19 10:56
C9	9110118-09	Air	10/30/19 23:59	11/01/19 10:56

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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FILE #: 4222.00
REPORTED: 11/15/19 15:08
SUBMITTED: 10/18/19 to 11/01/19
AQS SITE CODE:
SITE CODE: Covington

Description: C1	Lab ID: 9101803-01	Sampled: 10/12/19 23:59
Pressure @ Receipt: 7.00" Hg	Canister #: 5050	Received: 10/18/19 10:26
Comments:		Analyzed: 10/22/19 06:09

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250

0.0250 ppb = 0.0452 ug/m³
verified 10/18/19
QGO



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FILE #: 4222.00
REPORTED: 11/15/19 15:08
SUBMITTED: 10/18/19 to 11/01/19
AQS SITE CODE:
SITE CODE: Covington

Description: C3	Lab ID: 9101803-02	Sampled: 10/12/19 23:59
Pressure @ Receipt: 7.50" Hg	Canister #: SAT166	Received: 10/18/19 10:26
Comments:		Analyzed: 10/22/19 07:18

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 9101803-03

Sampled: 10/12/19 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT016

Received: 10/18/19 10:26

Comments:

Analyzed: 10/22/19 08:27

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 9102507-01

Sampled: 10/18/19 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT084

Received: 10/25/19 10:19

Comments:

Analyzed: 10/25/19 21:22

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.294	0.53		0.0250



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REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 9102507-03

Sampled: 10/18/19 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: SAT106

Received: 10/25/19 10:19

Comments:

Analyzed: 10/25/19 23:46

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.431	0.78		0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 9102507-04

Sampled: 10/18/19 23:59

Pressure @ Receipt: 0.0" Hg

Canister #: 5082

Received: 10/25/19 10:19

Comments: ambient at field recovery

Analyzed: 10/25/19 22:58

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C1

Lab ID: 9103069-01

Sampled: 10/27/19 23:59

Pressure @ Receipt: 9.00" Hg

Canister #: 5004

Received: 10/30/19 11:28

Comments:

Analyzed: 11/01/19 19:53

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	1.44	2.60		0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 9103069-02

Sampled: 10/27/19 23:59

Pressure @ Receipt: 8.50" Hg

Canister #: 5117

Received: 10/30/19 11:28

Comments:

Analyzed: 11/01/19 20:42

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 9103069-03

Sampled: 10/24/19 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 18869

Received: 10/30/19 11:28

Comments:

Analyzed: 11/01/19 21:30

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4222.00
REPORTED: 11/15/19 15:08
SUBMITTED: 10/18/19 to 11/01/19
AQS SITE CODE:
SITE CODE: Covington

Description: C3	Lab ID: 9103069-04	Sampled: 10/27/19 23:59
Pressure @ Receipt: 8.50" Hg	Canister #: 5069	Received: 10/30/19 11:28
Comments:		Analyzed: 11/01/19 22:18

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.232	0.42		0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 9103069-05

Sampled: 10/24/19 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: A21036

Received: 10/30/19 11:28

Comments:

Analyzed: 11/01/19 23:07

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	1.30	2.35		0.0250



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PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4222.00
REPORTED: 11/15/19 15:08
SUBMITTED: 10/18/19 to 11/01/19
AQS SITE CODE:
SITE CODE: Covington

Description: C4	Lab ID: 9103069-06	Sampled: 10/27/19 23:59
Pressure @ Receipt: 6.00" Hg	Canister #: A21077	Received: 10/30/19 11:28
Comments:		Analyzed: 11/01/19 23:55

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C1

Lab ID: 9110118-01

Sampled: 10/30/19 23:59

Pressure @ Receipt: 8.50" Hg

Canister #: SAT014

Received: 11/01/19 10:56

Comments:

Analyzed: 11/06/19 08:56

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.207	0.37		0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 9110118-02

Sampled: 10/30/19 23:59

Pressure @ Receipt: 8.00" Hg

Canister #: SAT029

Received: 11/01/19 10:56

Comments:

Analyzed: 11/06/19 09:45

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4222.00
REPORTED: 11/15/19 15:08
SUBMITTED: 10/18/19 to 11/01/19
AQS SITE CODE:
SITE CODE: Covington

Description: C3	Lab ID: 9110118-03	Sampled: 10/30/19 23:59
Pressure @ Receipt: 7.00" Hg	Canister #: 18831	Received: 11/01/19 10:56
Comments:		Analyzed: 11/06/19 10:33

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.235	0.42		0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4 C1

Lab ID: 9110118-04

Sampled: 10/30/19 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: 18833

Received: 11/01/19 10:56

Comments: Col 1

Analyzed: 11/06/19 11:22

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4 C2

Lab ID: 9110118-05

Sampled: 10/30/19 23:59

Pressure @ Receipt: 8.50" Hg

Canister #: 18865

Received: 11/01/19 10:56

Comments: Col 2

Analyzed: 11/06/19 12:10

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 9110118-06

Sampled: 10/30/19 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: A21082

Received: 11/01/19 10:56

Comments:

Analyzed: 11/06/19 14:36

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C7

Lab ID: 9110118-07

Sampled: 10/30/19 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 18834

Received: 11/01/19 10:56

Comments:

Analyzed: 11/06/19 15:24

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C8

Lab ID: 9110118-08

Sampled: 10/30/19 23:59

Pressure @ Receipt: 8.00" Hg

Canister #: SAT081

Received: 11/01/19 10:56

Comments:

Analyzed: 11/06/19 16:12

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.191	0.35		0.0250



CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Description: C9

Lab ID: 9110118-09

Sampled: 10/30/19 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 19651

Received: 11/01/19 10:56

Comments:

Analyzed: 11/12/19 16:11

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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SITE CODE: Covington

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B9J2105 - Summa Canister Prep</i>						
Blank (B9J2105-BLK1)			Prepared & Analyzed: 10/21/19			
Ethylene oxide	ND	ppbv				U
<i>Batch B9J2503 - Summa Canister Prep</i>						
Blank (B9J2503-BLK1)			Prepared: 10/21/19 Analyzed: 10/25/19			
Ethylene oxide	ND	ppbv				U
<i>Batch B9K0105 - Summa Canister Prep</i>						
Blank (B9K0105-BLK1)			Prepared: 10/21/19 Analyzed: 11/01/19			
Ethylene oxide	ND	ppbv				U
<i>Batch B9K0506 - Summa Canister Prep</i>						
Blank (B9K0506-BLK1)			Prepared: 10/21/19 Analyzed: 11/05/19			
Ethylene oxide	ND	ppbv				U
Duplicate (B9K0506-DUP1)			Source: 9110118-04 Prepared: 10/30/19 Analyzed: 11/06/19			
Ethylene oxide	ND	ppbv	ND		25	U
Duplicate (B9K0506-DUP2)			Source: 9110118-05 Prepared: 10/30/19 Analyzed: 11/06/19			
Ethylene oxide	ND	ppbv	ND		25	U
<i>Batch B9K0707 - Summa Canister Prep</i>						
Blank (B9K0707-BLK1)			Prepared: 10/21/19 Analyzed: 11/12/19			
Ethylene oxide	ND	ppbv				U



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SITE CODE: Covington

Analyte	Result	Units	% Difference	Limit (%)	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 1910046

Calibration Check (1910046-CCV1)

Prepared & Analyzed: 10/21/19

Ethylene oxide	2.24	ppbv	-9.0	30.00
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Sequence 1910064

Calibration Check (1910064-CCV1)

Prepared & Analyzed: 10/25/19

Ethylene oxide	2.49	ppbv	-0.4	30.00
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Sequence 1911003

Calibration Check (1911003-CCV1)

Prepared & Analyzed: 11/01/19

Ethylene oxide	2.44	ppbv	-2.6	30.00
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Sequence 1911008

Calibration Check (1911008-CCV1)

Prepared & Analyzed: 11/05/19

Ethylene oxide	2.36	ppbv	-5.5	30.00
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Sequence 1911015

Calibration Check (1911015-CCV1)

Prepared & Analyzed: 11/12/19

Ethylene oxide	1.85	ppbv	-25.9	30.00
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FILE #: 4222.00

REPORTED: 11/15/19 15:08

SUBMITTED: 10/18/19 to 11/01/19

AQS SITE CODE:

SITE CODE: Covington

Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: The test results meet all requirements of NELAC; however the following analytes are not accredited: 1,2,4-trimethylbenzene, 1,2-dibromoethane, 1,2-dichloropropane, 1,3,5-trimethylbenzene, 1,3-butadiene, acetylene, acrolein, bromochloromethane, bromodichloromethane, bromoform, carbon disulfide, dibromochloromethane, dichlorodifluoromethane, dichlorotetrafluoroethane, ethyl acrylate, ethyl tert butyl ether, ethylene oxide, hexachloro-1,3-butadiene, n-octane, propylene, tert amyl methyl ether, tetrachloroethylene, trans-1,2-dichloroethylene, trichlorofluoromethane, and trichlorotrifluoroethane.