



# GEORGIA

DEPARTMENT OF NATURAL RESOURCES

## 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

December 26, 2019

### MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief *DK*

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington November 1 -23, 2019 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of November 1 – 23, 2019 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. 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. The Qualifier code of "LK" was given by ERG to indicate that the sample may be biased high. The Qualifier code of "2" was given to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised.

| Location | Date       | Qualifier | EtO<br>Concentration<br>(ug/m3) |
|----------|------------|-----------|---------------------------------|
| C1       | 11/1/2019  |           | 0.17                            |
| C1       | 11/3/2019  |           | 0.20                            |
| C1       | 11/5/2019  |           | 0.11                            |
| C1       | 11/8/2019  |           | 0.41                            |
| C1       | 11/15/2019 |           | 0.66                            |
| C2       | 11/1/2019  | LK        | 0.22                            |
| C2       | 11/3/2019  | LK        | 0.24                            |
| C2       | 11/5/2019  | LK        | 0.17                            |
| C2       | 11/8/2019  |           | 0.05                            |
| C2       | 11/13/2019 |           | 0.17                            |
| C2       | 11/15/2019 |           | 0.25                            |
| C2       | 11/20/2019 |           | 1.01                            |
| C2       | 11/23/2019 | 2         | 0.42                            |
| C3       | 11/1/2019  |           | 0.13                            |
| C3       | 11/3/2019  |           | 0.22                            |
| C3       | 11/5/2019  |           | X                               |

|    |  |            |       |      |
|----|--|------------|-------|------|
| C3 |  | 11/8/2019  |       | 0.37 |
| C3 |  | 11/13/2019 |       | 0.50 |
| C3 |  | 11/15/2019 |       | 0.23 |
| C3 |  | 11/20/2019 |       | 0.58 |
| C3 |  | 11/23/2019 |       | 0.29 |
| C4 |  | 11/1/2019  |       | 0.06 |
| C4 |  | 11/3/2019  |       | 0.18 |
| C4 |  | 11/5/2019  |       | 0.18 |
| C4 |  | 11/8/2019  |       | 0.17 |
| C4 |  | 11/13/2019 |       | X    |
| C4 |  | 11/15/2019 | 2     | 0.15 |
| C4 |  | 11/20/2019 |       | 1.00 |
| C4 |  | 11/23/2019 | 2     | 0.48 |
| C5 |  | 11/1/2019  | LK, 2 | 0.09 |
| C5 |  | 11/3/2019  |       | 0.22 |
| C5 |  | 11/5/2019  |       | 0.09 |
| C5 |  | 11/8/2019  |       | 0.22 |
| C5 |  | 11/13/2019 |       | 0.18 |
| C5 |  | 11/15/2019 |       | X    |
| C5 |  | 11/20/2019 |       | 0.81 |
| C5 |  | 11/20/2019 | QA    | 0.76 |
| C5 |  | 11/23/2019 |       | 0.12 |
| C7 |  | 11/1/2019  |       | 0.06 |
| C7 |  | 11/3/2019  |       | 0.35 |
| C7 |  | 11/5/2019  |       | 0.20 |
| C7 |  | 11/8/2019  |       | 0.22 |
| C7 |  | 11/15/2019 |       | 0.12 |
| C8 |  | 11/1/2019  |       | 0.1  |
| C8 |  | 11/3/2019  | LK, 2 | 0.22 |
| C8 |  | 11/5/2019  | LK    | 0.22 |
| C8 |  | 11/8/2019  |       | 0.08 |
| C8 |  | 11/15/2019 |       | 0.08 |
| C9 |  | 11/1/2019  |       | X    |
| C9 |  | 11/3/2019  |       | 0.26 |
| C9 |  | 11/5/2019  |       | 0.18 |
| C9 |  | 11/8/2019  |       | 0.06 |
| C9 |  | 11/15/2019 |       | 0.44 |

If you have any questions, please let me know.

DGO/do



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

December 12, 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 11/27/19 11:45.

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](mailto:julie.swift@erg.com)

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify [julie.swift@erg.com](mailto:julie.swift@erg.com) and delete the report without retaining any copies.



## 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: 12/12/19 15:06

SUBMITTED: 11/27/19

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> |
|-------------------|------------------|---------------|----------------|-----------------|
| C2                | 9112711-01       | Air           | 11/20/19 23:59 | 11/27/19 11:45  |
| C2                | 9112711-02       | Air           | 11/23/19 23:59 | 11/27/19 11:45  |
| C3                | 9112711-03       | Air           | 11/20/19 23:59 | 11/27/19 11:45  |
| C3                | 9112711-04       | Air           | 11/23/19 23:59 | 11/27/19 11:45  |
| C4                | 9112711-05       | Air           | 11/20/19 23:59 | 11/27/19 11:45  |
| C4                | 9112711-06       | Air           | 11/23/19 23:59 | 11/27/19 11:45  |
| C5                | 9112711-07       | Air           | 11/20/19 23:59 | 11/27/19 11:45  |
| C5                | 9112711-08       | Air           | 11/23/19 23:59 | 11/27/19 11:45  |
| C5 - QA           | 9112711-09       | Air           | 11/20/19 23:59 | 11/27/19 11:45  |



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FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 9112711-01

Sampled: 11/20/19 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: SAT063

Received: 11/27/19 11:45

Comments:

Analyzed: 12/03/19 21:00

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.562          | 1.01                    |             | 0.0250      |



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SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

|                               |                    |                          |
|-------------------------------|--------------------|--------------------------|
| Description: C2               | Lab ID: 9112711-02 | Sampled: 11/23/19 23:59  |
| Pressure @ Receipt: 16.50" Hg | Canister #: SAT069 | Received: 11/27/19 11:45 |
| Comments:                     |                    | Analyzed: 12/03/19 21:56 |

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.235   | 0.42              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 9112711-03

Sampled: 11/20/19 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: 5007

Received: 11/27/19 11:45

Comments:

Analyzed: 12/03/19 22:45

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.319   | 0.58              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 9112711-04

Sampled: 11/23/19 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: SAT054

Received: 11/27/19 11:45

Comments:

Analyzed: 12/03/19 23:33

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.158   | 0.29              |      | 0.0250 |





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FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 9112711-05

Sampled: 11/20/19 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: SAT091

Received: 11/27/19 11:45

Comments:

Analyzed: 12/04/19 00:21

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.552          | 1.00                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

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|                                      |                           |                                 |
|--------------------------------------|---------------------------|---------------------------------|
| <b>Description:</b> C4               | <b>Lab ID:</b> 9112711-06 | <b>Sampled:</b> 11/23/19 23:59  |
| <b>Pressure @ Receipt:</b> 13.00" Hg | <b>Canister #:</b> 19649  | <b>Received:</b> 11/27/19 11:45 |
| <b>Comments:</b>                     |                           | <b>Analyzed:</b> 12/04/19 01:11 |

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### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.266          | 0.48                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 9112711-07

Sampled: 11/20/19 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 19652

Received: 11/27/19 11:45

Comments:

Analyzed: 12/04/19 01:59

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.450          | 0.81                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 9112711-08

Sampled: 11/23/19 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 19666

Received: 11/27/19 11:45

Comments:

Analyzed: 12/04/19 22:05

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0667         | 0.12                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

Description: C5 - QA

Lab ID: 9112711-09

Sampled: 11/20/19 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 18875

Received: 11/27/19 11:45

Comments: Listed as QA

Analyzed: 12/04/19 22:53

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.419          | 0.76                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

| Analyte | Result | Units | Source Result | RPD | RPD Limit | Notes |
|---------|--------|-------|---------------|-----|-----------|-------|
|---------|--------|-------|---------------|-----|-----------|-------|

### Air Toxics by EPA Compendium Method TO-15 - Quality Control

*Batch B9L0307 - Summa Canister Prep*

#### Blank (B9L0307-BLK1)

Prepared: 11/25/19 Analyzed: 12/03/19

|                |    |      |  |  |  |   |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv |  |  |  | U |
|----------------|----|------|--|--|--|---|

#### Duplicate (B9L0307-DUP1)

Source: 9112711-07

Prepared: 11/20/19 Analyzed: 12/04/19

|                |       |      |      |       |    |  |
|----------------|-------|------|------|-------|----|--|
| Ethylene oxide | 0.452 | ppbv | 0.45 | 0.377 | 25 |  |
|----------------|-------|------|------|-------|----|--|

*Batch B9L0408 - Summa Canister Prep*

#### Blank (B9L0408-BLK1)

Prepared: 11/25/19 Analyzed: 12/04/19

|                |    |      |  |  |  |   |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv |  |  |  | U |
|----------------|----|------|--|--|--|---|



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FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

AQS SITE CODE:

SITE CODE: Covington

| Analyte | Result | Units | % Difference | Limit (%) | Notes |
|---------|--------|-------|--------------|-----------|-------|
|---------|--------|-------|--------------|-----------|-------|

### Air Toxics by EPA Compendium Method TO-15 - Quality Control

#### Sequence 1912011

##### Calibration Check (1912011-CCV1)

Prepared & Analyzed: 12/03/19

|                |      |      |     |       |
|----------------|------|------|-----|-------|
| Ethylene oxide | 2.66 | ppbv | 6.5 | 30.00 |
|----------------|------|------|-----|-------|

#### Sequence 1912012

##### Calibration Check (1912012-CCV1)

Prepared & Analyzed: 12/04/19

|                |      |      |      |       |
|----------------|------|------|------|-------|
| Ethylene oxide | 2.85 | ppbv | 14.0 | 30.00 |
|----------------|------|------|------|-------|



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

FILE #: 4222.00

REPORTED: 12/12/19 15:06

SUBMITTED: 11/27/19

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.





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

December 10, 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 11/01/19 10:56 through 11/20/19 10:39.

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.

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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](mailto:julie.swift@erg.com)

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4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

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> |
|-------------------|------------------|---------------|----------------|-----------------|
| Field Blank       | 9110118-10       | Air           | 10/30/19 23:59 | 11/01/19 10:56  |
| C1                | 9110553-01       | Air           | 11/01/19 23:59 | 11/05/19 10:58  |
| C2                | 9110553-02       | Air           | 11/01/19 23:59 | 11/05/19 10:58  |
| C3                | 9110553-03       | Air           | 11/01/19 23:59 | 11/05/19 10:58  |
| C4                | 9110553-04       | Air           | 11/01/19 23:59 | 11/05/19 10:58  |
| C5                | 9110553-05       | Air           | 11/01/19 23:59 | 11/05/19 10:58  |
| C7                | 9110553-06       | Air           | 11/01/19 23:59 | 11/05/19 10:58  |
| C8                | 9110553-07       | Air           | 11/01/19 23:59 | 11/05/19 10:58  |
| C1                | 9110635-01       | Air           | 11/03/19 23:59 | 11/06/19 10:33  |
| C3                | 9110635-02       | Air           | 11/03/19 23:59 | 11/06/19 10:33  |
| C4                | 9110635-03       | Air           | 11/03/19 23:59 | 11/06/19 10:33  |
| C5                | 9110635-04       | Air           | 11/03/19 23:59 | 11/06/19 10:33  |
| C7                | 9110635-05       | Air           | 11/03/19 23:59 | 11/06/19 10:33  |
| C8                | 9110635-06       | Air           | 11/03/19 23:59 | 11/06/19 10:33  |
| C9                | 9110635-07       | Air           | 11/03/19 23:59 | 11/06/19 10:33  |
| C2                | 9110716-01       | Air           | 11/03/19 23:59 | 11/07/19 10:44  |
| C1                | 9110810-01       | Air           | 11/05/19 23:59 | 11/08/19 10:34  |
| C2                | 9110810-02       | Air           | 11/05/19 23:59 | 11/08/19 10:34  |
| C4                | 9110810-03       | Air           | 11/05/19 23:59 | 11/08/19 10:34  |
| C5                | 9110810-04       | Air           | 11/05/19 23:59 | 11/08/19 10:34  |
| C7                | 9110810-05       | Air           | 11/05/19 23:59 | 11/08/19 10:34  |
| C8                | 9110810-06       | Air           | 11/05/19 23:59 | 11/08/19 10:34  |
| C9                | 9110810-07       | Air           | 11/05/19 23:59 | 11/08/19 10:34  |

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.*



## 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: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

|    |            |     |                |                |
|----|------------|-----|----------------|----------------|
| C1 | 9111412-01 | Air | 11/08/19 23:59 | 11/14/19 11:14 |
| C2 | 9111412-02 | Air | 11/08/19 23:59 | 11/14/19 11:14 |
| C3 | 9111412-03 | Air | 11/08/19 23:59 | 11/14/19 11:14 |
| C4 | 9111412-04 | Air | 11/08/19 23:59 | 11/14/19 11:14 |
| C5 | 9111412-05 | Air | 11/08/19 23:59 | 11/14/19 11:14 |
| C7 | 9111412-06 | Air | 11/08/19 23:59 | 11/14/19 11:14 |
| C8 | 9111412-07 | Air | 11/08/19 23:59 | 11/14/19 11:14 |
| C9 | 9111412-08 | Air | 11/08/19 23:59 | 11/14/19 11:14 |
| C2 | 9111509-01 | Air | 11/13/19 23:59 | 11/15/19 10:49 |
| C3 | 9111509-02 | Air | 11/13/19 23:59 | 11/15/19 10:49 |
| C5 | 9111509-03 | Air | 11/13/19 23:59 | 11/15/19 10:49 |
| C1 | 9112026-01 | Air | 11/15/19 23:59 | 11/20/19 10:39 |
| C2 | 9112026-02 | Air | 11/15/19 23:59 | 11/20/19 10:39 |
| C3 | 9112026-03 | Air | 11/15/19 23:59 | 11/20/19 10:39 |
| C4 | 9112026-04 | Air | 11/15/19 23:59 | 11/20/19 10:39 |
| C7 | 9112026-06 | Air | 11/15/19 23:59 | 11/20/19 10:39 |
| C8 | 9112026-07 | Air | 11/15/19 23:59 | 11/20/19 10:39 |
| C9 | 9112026-08 | Air | 11/15/19 23:59 | 11/20/19 10:39 |



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REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: Field Blank

Lab ID: 9110118-10

Sampled: 10/30/19 23:59

Pressure @ Receipt: 30" Hg

Canister #: A21032

Received: 11/01/19 10:56

Comments: Field Blank

Analyzed: 11/20/19 11:21

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | ND             | ND                      | U           | 0.0250      |



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REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C1

Lab ID: 9110553-01

Sampled: 11/01/19 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: A21046

Received: 11/05/19 10:58

Comments:

Analyzed: 11/13/19 02:42

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0919         | 0.17                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 9110553-02

Sampled: 11/01/19 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: SAT135

Received: 11/05/19 10:58

Comments:

Analyzed: 11/13/19 15:41

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.121   | 0.22              | LK   | 0.0250 |



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REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 9110553-03

Sampled: 11/01/19 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: SAT155

Received: 11/05/19 10:58

Comments:

Analyzed: 11/13/19 16:50

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.0716  | 0.13              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 9110553-04

Sampled: 11/01/19 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 19642

Received: 11/05/19 10:58

Comments:

Analyzed: 11/13/19 17:38

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0338         | 0.06                    |             | 0.0250      |





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REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 9110553-05

Sampled: 11/01/19 23:59

Pressure @ Receipt: 0 psig

Canister #: 19650

Received: 11/05/19 10:58

Comments: Received at ambient

Analyzed: 11/13/19 18:27

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0514         | 0.09                    | LK          | 0.0250      |



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REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C7

Lab ID: 9110553-06

Sampled: 11/01/19 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 18879

Received: 11/05/19 10:58

Comments:

Analyzed: 11/13/19 19:15

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0331         | 0.06                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C8

Lab ID: 9110553-07

Sampled: 11/01/19 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: SAT100

Received: 11/05/19 10:58

Comments:

Analyzed: 11/13/19 20:03

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0570         | 0.10                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C1

Lab ID: 9110635-01

Sampled: 11/03/19 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 5145

Received: 11/06/19 10:33

Comments:

Analyzed: 11/14/19 19:16

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.110          | 0.20                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 9110635-02

Sampled: 11/03/19 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 0044

Received: 11/06/19 10:33

Comments:

Analyzed: 11/14/19 20:05

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.120          | 0.22                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 9110635-03

Sampled: 11/03/19 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: A21101

Received: 11/06/19 10:33

Comments:

Analyzed: 11/14/19 20:53

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0974         | 0.18                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 9110635-04

Sampled: 11/03/19 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: A21045

Received: 11/06/19 10:33

Comments: Received without brass cap

Analyzed: 11/14/19 21:41

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.123          | 0.22                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C7

Lab ID: 9110635-05

Sampled: 11/03/19 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 5086

Received: 11/06/19 10:33

Comments:

Analyzed: 11/14/19 22:30

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.194          | 0.35                    |             | 0.0250      |





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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C8

Lab ID: 9110635-06

Sampled: 11/03/19 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT059

Received: 11/06/19 10:33

Comments:

Analyzed: 11/14/19 23:18

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.123          | 0.22                    | LK          | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C9

Lab ID: 9110635-07

Sampled: 11/03/19 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 5034

Received: 11/06/19 10:33

Comments:

Analyzed: 11/15/19 00:06

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.146          | 0.26                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 9110716-01

Sampled: 11/03/19 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: A21096

Received: 11/07/19 10:44

Comments:

Analyzed: 11/15/19 03:22

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.133   | 0.24              | UK   | 0.0250 |



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REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C1

Lab ID: 9110810-01

Sampled: 11/05/19 23:59

Pressure @ Receipt: 8.50" Hg

Canister #: SAT072

Received: 11/08/19 10:34

Comments:

Analyzed: 11/15/19 04:11

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0623         | 0.11                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 9110810-02

Sampled: 11/05/19 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: SAT176

Received: 11/08/19 10:34

Comments:

Analyzed: 11/15/19 16:25

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0953         | 0.17                    | LK          | 0.0250      |



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REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 9110810-03

Sampled: 11/05/19 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT074

Received: 11/08/19 10:34

Comments:

Analyzed: 11/15/19 17:13

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.102          | 0.18                    |             | 0.0250      |



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SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 9110810-04

Sampled: 11/05/19 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 18822

Received: 11/08/19 10:34

Comments:

Analyzed: 11/15/19 18:01

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0512         | 0.09                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C7

Lab ID: 9110810-05

Sampled: 11/05/19 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT071

Received: 11/08/19 10:34

Comments:

Analyzed: 11/15/19 18:49

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.111          | 0.20                    |             | 0.0250      |





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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: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

|                              |                    |                          |
|------------------------------|--------------------|--------------------------|
| Description: C8              | Lab ID: 9110810-06 | Sampled: 11/05/19 23:59  |
| Pressure @ Receipt: 9.00" Hg | Canister #: 5089   | Received: 11/08/19 10:34 |
| Comments:                    |                    | Analyzed: 11/15/19 19:38 |

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.124   | 0.22              | LK   | 0.0250 |



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SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

|                              |                    |                          |
|------------------------------|--------------------|--------------------------|
| Description: C9              | Lab ID: 9110810-07 | Sampled: 11/05/19 23:59  |
| Pressure @ Receipt: 4.50" Hg | Canister #: SAT152 | Received: 11/08/19 10:34 |
| Comments:                    |                    | Analyzed: 11/15/19 20:26 |

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.0991  | 0.18              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C1

Lab ID: 9111412-01

Sampled: 11/08/19 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 19664

Received: 11/14/19 11:14

Comments:

Analyzed: 11/20/19 13:46

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.227   | 0.41              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 9111412-02

Sampled: 11/08/19 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: 110335

Received: 11/14/19 11:14

Comments:

Analyzed: 11/20/19 14:34

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0254         | 0.05                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

|                              |                    |                          |
|------------------------------|--------------------|--------------------------|
| Description: C3              | Lab ID: 9111412-03 | Sampled: 11/08/19 23:59  |
| Pressure @ Receipt: 6.00" Hg | Canister #: SAT161 | Received: 11/14/19 11:14 |
| Comments:                    |                    | Analyzed: 11/20/19 15:23 |

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.206   | 0.37              |      | 0.0250 |



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REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 9111412-04

Sampled: 11/08/19 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT138

Received: 11/14/19 11:14

Comments:

Analyzed: 11/20/19 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0912         | 0.17                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

|                              |                    |                          |
|------------------------------|--------------------|--------------------------|
| Description: C5              | Lab ID: 9111412-05 | Sampled: 11/08/19 23:59  |
| Pressure @ Receipt: 2.50" Hg | Canister #: 19643  | Received: 11/14/19 11:14 |
| Comments:                    |                    | Analyzed: 11/20/19 17:00 |

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.124   | 0.22              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C7

Lab ID: 9111412-06

Sampled: 11/08/19 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: SAT106

Received: 11/14/19 11:14

Comments:

Analyzed: 11/20/19 17:48

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.120          | 0.22                    |             | 0.0250      |





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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C8

Lab ID: 9111412-07

Sampled: 11/08/19 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 19284

Received: 11/14/19 11:14

Comments:

Analyzed: 11/20/19 18:36

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.0442  | 0.08              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C9

Lab ID: 9111412-08

Sampled: 11/08/19 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 19641

Received: 11/14/19 11:14

Comments:

Analyzed: 11/20/19 19:24

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0336         | 0.06                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

|                              |                    |                          |
|------------------------------|--------------------|--------------------------|
| Description: C2              | Lab ID: 9111509-01 | Sampled: 11/13/19 23:59  |
| Pressure @ Receipt: 6.50" Hg | Canister #: 5082   | Received: 11/15/19 10:49 |
| Comments:                    |                    | Analyzed: 11/20/19 20:13 |

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.0963  | 0.17              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

|                              |                    |                          |
|------------------------------|--------------------|--------------------------|
| Description: C3              | Lab ID: 9111509-02 | Sampled: 11/13/19 23:59  |
| Pressure @ Receipt: 5.50" Hg | Canister #: 5132   | Received: 11/15/19 10:49 |
| Comments:                    |                    | Analyzed: 11/20/19 21:01 |

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.278   | 0.50              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 9111509-03

Sampled: 11/13/19 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 19276

Received: 11/15/19 10:49

Comments:

Analyzed: 11/20/19 21:49

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.101   | 0.18              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C1

Lab ID: 9112026-01

Sampled: 11/15/19 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: AZ50

Received: 11/20/19 10:39

Comments:

Analyzed: 11/26/19 19:31

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.368   | 0.66              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 9112026-02

Sampled: 11/15/19 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: 5069

Received: 11/20/19 10:39

Comments:

Analyzed: 11/26/19 20:20

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.137   | 0.25              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 9112026-03

Sampled: 11/15/19 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 19283

Received: 11/20/19 10:39

Comments:

Analyzed: 11/26/19 21:08

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.128          | 0.23                    |             | 0.0250      |





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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 9112026-04

Sampled: 11/15/19 23:59

Pressure @ Receipt: 0" Hg

Canister #: 18877

Received: 11/20/19 10:39

Comments: Received at ambient

Analyzed: 11/26/19 21:56

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0848         | 0.15                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C7

Lab ID: 9112026-06

Sampled: 11/15/19 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 18821

Received: 11/20/19 10:39

Comments:

Analyzed: 11/26/19 22:44

### Air Toxics by EPA Compendium Method TO-15

| Analyte        | Results |                   | Flag | MDL    |
|----------------|---------|-------------------|------|--------|
|                | ppbv    | ug/m <sup>3</sup> |      | ppbv   |
| Ethylene oxide | 0.0683  | 0.12              |      | 0.0250 |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

|                                     |                           |                                 |
|-------------------------------------|---------------------------|---------------------------------|
| <b>Description:</b> C8              | <b>Lab ID:</b> 9112026-07 | <b>Sampled:</b> 11/15/19 23:59  |
| <b>Pressure @ Receipt:</b> 6.50" Hg | <b>Canister #:</b> 19288  | <b>Received:</b> 11/20/19 10:39 |
| <b>Comments:</b>                    |                           | <b>Analyzed:</b> 11/26/19 23:33 |

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0462         | 0.08                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

Description: C9

Lab ID: 9112026-08

Sampled: 11/15/19 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: SAT159

Received: 11/20/19 10:39

Comments:

Analyzed: 11/27/19 00:21

### 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.242          | 0.44                    |             | 0.0250      |



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FILE #: 4222.00

REPORTED: 12/10/19 11:16

SUBMITTED: 11/01/19 to 11/20/19

AQS SITE CODE:

SITE CODE: Covington

| Analyte | Result | Units | Source Result | RPD | RPD Limit | Notes |
|---------|--------|-------|---------------|-----|-----------|-------|
|---------|--------|-------|---------------|-----|-----------|-------|

### Air Toxics by EPA Compendium Method TO-15 - Quality Control

#### Batch B9K0707 - Summa Canister Prep

##### Blank (B9K0707-BLK1)

Prepared: 10/21/19 Analyzed: 11/12/19

|                |    |      |  |  |  |   |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv |  |  |  | U |
|----------------|----|------|--|--|--|---|

##### Duplicate (B9K0707-DUP1)

Source: 9110553-01

Prepared: 11/01/19 Analyzed: 11/13/19

|                |        |      |      |      |    |  |
|----------------|--------|------|------|------|----|--|
| Ethylene oxide | 0.0885 | ppbv | 0.09 | 3.77 | 25 |  |
|----------------|--------|------|------|------|----|--|

#### Batch B9K1306 - Summa Canister Prep

##### Blank (B9K1306-BLK1)

Prepared: 10/21/19 Analyzed: 11/13/19

|                |    |      |  |  |  |   |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv |  |  |  | U |
|----------------|----|------|--|--|--|---|

#### Batch B9K1401 - Summa Canister Prep

##### Blank (B9K1401-BLK1)

Prepared: 11/12/19 Analyzed: 11/14/19

|                |    |      |  |  |  |   |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv |  |  |  | U |
|----------------|----|------|--|--|--|---|

##### Duplicate (B9K1401-DUP1)

Source: 9110810-01

Prepared: 11/05/19 Analyzed: 11/15/19

|                |        |      |      |       |    |  |
|----------------|--------|------|------|-------|----|--|
| Ethylene oxide | 0.0626 | ppbv | 0.06 | 0.480 | 25 |  |
|----------------|--------|------|------|-------|----|--|

#### Batch B9K1504 - Summa Canister Prep

##### Blank (B9K1504-BLK1)

Prepared: 11/12/19 Analyzed: 11/15/19

|                |    |      |  |  |  |   |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv |  |  |  | U |
|----------------|----|------|--|--|--|---|

#### Batch B9K2005 - Summa Canister Prep

##### Blank (B9K2005-BLK1)

Prepared: 11/12/19 Analyzed: 11/20/19

|                |    |      |  |  |  |   |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv |  |  |  | U |
|----------------|----|------|--|--|--|---|

#### Batch B9K2605 - Summa Canister Prep

##### Blank (B9K2605-BLK1)

Prepared: 11/18/19 Analyzed: 11/26/19

|                |    |      |  |  |  |   |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv |  |  |  | U |
|----------------|----|------|--|--|--|---|



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Atlanta, GA 30354  
ATTN: Ms. Jaime Gore  
PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4222.00  
REPORTED: 12/10/19 11:16  
SUBMITTED: 11/01/19 to 11/20/19  
AQS SITE CODE:  
SITE CODE: Covington

| Analyte | Result | Units | % Difference | Limit (%) | Notes |
|---------|--------|-------|--------------|-----------|-------|
|---------|--------|-------|--------------|-----------|-------|

### Air Toxics by EPA Compendium Method TO-15 - Quality Control

#### Sequence 1911008

##### Calibration Check (1911008-CCV1)

Prepared & Analyzed: 11/05/19

|                |      |      |      |       |
|----------------|------|------|------|-------|
| Ethylene oxide | 2.26 | ppbv | -9.4 | 30.00 |
|----------------|------|------|------|-------|

#### Sequence 1911015

##### Calibration Check (1911015-CCV1)

Prepared & Analyzed: 11/12/19

|                |      |      |       |       |
|----------------|------|------|-------|-------|
| Ethylene oxide | 1.89 | ppbv | -24.5 | 30.00 |
|----------------|------|------|-------|-------|

#### Sequence 1911025

##### Calibration Check (1911025-CCV1)

Prepared & Analyzed: 11/13/19

|                |      |      |       |       |
|----------------|------|------|-------|-------|
| Ethylene oxide | 1.94 | ppbv | -22.5 | 30.00 |
|----------------|------|------|-------|-------|

#### Sequence 1911027

##### Calibration Check (1911027-CCV1)

Prepared & Analyzed: 11/14/19

|                |      |      |       |       |
|----------------|------|------|-------|-------|
| Ethylene oxide | 1.87 | ppbv | -25.3 | 30.00 |
|----------------|------|------|-------|-------|

#### Sequence 1911030

##### Calibration Check (1911030-CCV1)

Prepared & Analyzed: 11/15/19

|                |      |      |       |       |
|----------------|------|------|-------|-------|
| Ethylene oxide | 1.87 | ppbv | -25.4 | 30.00 |
|----------------|------|------|-------|-------|

#### Sequence 1911047

##### Calibration Check (1911047-CCV1)

Prepared & Analyzed: 11/20/19

|                |      |      |       |       |
|----------------|------|------|-------|-------|
| Ethylene oxide | 2.00 | ppbv | -19.8 | 30.00 |
|----------------|------|------|-------|-------|

#### Sequence 1911058

##### Calibration Check (1911058-CCV1)

Prepared & Analyzed: 11/26/19

|                |      |      |     |       |
|----------------|------|------|-----|-------|
| Ethylene oxide | 2.75 | ppbv | 9.9 | 30.00 |
|----------------|------|------|-----|-------|



## CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Allanta, GA 30354

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### Notes and Definitions

|     |                                                        |
|-----|--------------------------------------------------------|
| U   | Under Detection Limit                                  |
| LK  | Analyte identified; Reported value may be biased high. |
| 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.