May 13, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington January 16, 2020- February 27, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our Covington monitoring station in January and February 2020. Each of the samples were sent to Eastern Research Group (ERG) for analysis.

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 two samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. The sample values for Location C2 on 1/16/2020 was omitted in the previous data package from ERG and is included below. The samples listed as AA indicate a sample pressure out of limits. No samples were taken at location C1, C6, C8, or C9 during this period.

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If you have any questions, please let me know.

DOO/do
March 24, 2020

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 01/29/20 10:52 through 03/06/20 10:50.

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

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 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  

**AQS SITE CODE:**  

**REPORTED:** 03/24/20 12:32  

**FILE #:** 4222.00  

**SUBMITTED:** 01/29/20 to 03/06/20  

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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: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20
AQS SITE CODE:
SITE CODE: Covington

Description: C2  Lab ID: 0012927-01  Sampled: 01/16/20 23:59
Pressure @ Receipt: 3.00" Hg  Canister #: SAT156  Received: 01/29/20 10:52
Comments:  Analyzed: 02/20/20 05:34

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Air Toxics by EPA Compendium Method TO-15

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Air Toxics by EPA Compendium Method TO-15

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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**: 03/24/20 12:32  
**SUBMITTED**: 01/29/20 to 03/06/20

**FILE #**: 4222.00  
**REPORTED**: 03/24/20 12:32  
**SUBMITTED**: 01/29/20 to 03/06/20

**SITE CODE**: Covington

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**Description**: C4  
**Lab ID**: 0012927-07  
**Sampled**: 01/22/20 23:59

**Pressure @ Receipt**: 7.00" Hg  
**Canister #**: 19656  
**Received**: 01/29/20 10:52

**Comments**:  
**Analyzed**: 02/20/20 01:52

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

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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: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20
AQS SITE CODE:
SITE CODE: Covington

Description: C4 QA
Pressure @ Receipt: 0" Hg
Comments:

Lab ID: 0012927-08
Canister #: SAT020

Sampled: 01/22/20 23:59
Received: 01/29/20 10:52
Analyzed: 02/20/20 02:47

Air Toxics by EPA Compendium Method TO-15

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

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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

AQS SITE CODE:
SITE CODE: Covington

FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20

AGS SITE CODE:
4244 International Pkwy, Suite 120
Atlanta, GA 30354

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

SITE CODE: Covington

Description: C2
Lab ID: 0013008-01
Sampled: 01/25/20 23:59

Pressure @ Receipt: 3.00" Hg
Canister #: 5132
Received: 01/30/20 10:57

Comments:
Analyzed: 02/19/20 19:24

---

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results (ppbv)</th>
<th>Results (ug/m³)</th>
<th>MDL (ppbv)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.467</td>
<td>0.84</td>
<td>0.0250</td>
</tr>
</tbody>
</table>

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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:  03/24/20 12:32
SUBMITTED:  01/29/20 to 03/06/20
AQS SITE CODE:
SITE CODE:  Covington

Description:  C3  Lab ID:  0013117-01  Sampled:  01/25/20 23:59
Pressure @ Receipt:  0.00" Hg  Canister #:  SAT110  Received:  01/31/20 12:39
Comments:  Received at ambient  Analyzed:  02/20/20 10:27

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
<td>ug/m³</td>
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<tr>
<td>Ethylene oxide</td>
<td>0.283</td>
<td>0.51</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.0250</td>
</tr>
</tbody>
</table>

Air Toxics by EPA Compendium Method TO-15

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FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20

AQS SITE CODE: 4244 International Pkwy, Suite 120
SITE CODE: Covington

---

**Description:** C4  
**Lab ID:** 0013117-02  
**Sampled:** 01/25/20 23:59

**Pressure @ Receipt:** 0.00" Hg  
**Canister #:** 18879  
**Received:** 01/31/20 12:39

**Comments:** Received at ambient  
**Analyzed:** 02/20/20 11:29

---

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>5.43</td>
<td>9.80</td>
</tr>
<tr>
<td></td>
<td>ppbv</td>
<td>ppbv</td>
</tr>
</tbody>
</table>

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FILE #: 4222.00

REPORTED: 03/24/20 12:32

SUBMITTED: 01/29/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Covington

---

**Description:** Covington-FS  
**Lab ID:** 0013117-03  
**Sampled:** 01/27/20 23:59  
**Pressure @ Receipt:** 30.00" Hg  
**Canister #:** A21000  
**Received:** 01/31/20 12:39  
**Comments:** Field Blank  
**Analyzed:** 02/21/20 20:05

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ethylene oxide</strong></td>
<td>ND</td>
<td>0.0250</td>
</tr>
</tbody>
</table>

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**FILE #:** 4222.00

**REPORTED:** 03/24/20 12:32

**SUBMITTED:** 01/29/20 to 03/06/20

**AQS SITE CODE:**

**SITE CODE:** Covington

---

**Description:** C2  **Lab ID:** 0020524-01  **Sampled:** 01/28/20 23:59

**Pressure @ Receipt:** 2.50” Hg  **Canister #:** 5083  **Received:** 02/05/20 11:53

**Comments:**  **Analyzed:** 02/21/20 22:54

---

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.558</td>
<td>1.01</td>
</tr>
</tbody>
</table>

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FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20

FAX: (919) 541-0516
SITE CODE: Covington

C3

Description: C3
Pressure @ Receipt: 4.00" Hg
Canister #: 18868

Comments:

Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
<td>ug/m³</td>
</tr>
<tr>
<td>Ethylene oxide</td>
<td>0.0909</td>
<td>0.16</td>
</tr>
</tbody>
</table>

Received: 02/05/20 11:53
Sampled: 02/21/20 23:50
Received: 02/05/20 11:53
Sampled: 02/21/20 23:50

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FAX: (919) 541-0516  
FILE #: 4222.00  
REPORTED: 03/24/20 12:32  
SUBMITTED: 01/29/20 to 03/06/20  
AQS SITE CODE:  
SITE CODE: Covington  

---

**Description:** C4  
**Lab ID:** 0020524-03  
**Sampled:** 01/28/20 23:59  
**Pressure @ Receipt:** 8.00" Hg  
**Canister #:** SAT081  
**Received:** 02/05/20 11:53  
**Comments:**  
**Analyzed:** 02/22/20 00:47  

---

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.302 ppbv, 0.55 ug/m³</td>
<td>0.0250 ppbv</td>
</tr>
</tbody>
</table>

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FILE #: 4222.00

REPORTED: 03/24/20 12:32

SUBMITTED: 01/29/20 to 03/06/20

FILE #:

AQS SITE CODE:

SITE CODE: Covington

**Description:** C5

**Lab ID:** 0020524-04

**Sampled:** 01/28/20 23:59

**Pressure @ Receipt:** 4.00” Hg

**Canister #:** SAT097

**Received:** 02/05/20 11:53

**Comments:**

**Analyzed:** 02/22/20 01:43

---

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.424</td>
<td>0.77</td>
</tr>
</tbody>
</table>

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

AQS SITE CODE: Covington
SITE CODE: C2

Description: C2
Pressure @ Receipt: 0" Hg
Comments: Received at ambient

Lab ID: 0020524-05
Canister #: 5062

Sampled: 01/30/20 23:59
Received: 02/05/20 11:53
Analyzed: 02/24/20 21:01

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results ppbv</th>
<th>ug/m³</th>
<th>MDL ppbv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.339</td>
<td>0.61</td>
<td>0.0250</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
<td>ug/m³</td>
</tr>
<tr>
<td>Ethylene oxide</td>
<td>0.339</td>
<td>0.61</td>
</tr>
</tbody>
</table>

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Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
<td>ug/m³</td>
</tr>
<tr>
<td>Ethylene oxide</td>
<td>0.200</td>
<td>0.36</td>
</tr>
</tbody>
</table>

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FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20
AQS SITE CODE:

SITE CODE: Covington

Description: C3  Lab ID: 002124-01  Sampled: 01/30/20 23:59
Pressure @ Receipt: 4.50" Hg  Canister #: 19278  Received: 02/12/20 11:01
Comments:  Analyzed: 02/24/20 22:53

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results ppbv</th>
<th>Results ug/m³</th>
<th>MDL ppbv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0924</td>
<td>0.17</td>
<td>0.0250</td>
</tr>
</tbody>
</table>

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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:** 03/24/20 12:32

**SUBMITTED:** 01/29/20 to 03/06/20

**AQS SITE CODE:**

**SITE CODE:** Covington

---

**Description:** C2  **Lab ID:** 0021311-01  **Sampled:** 02/03/20 23:59

**Pressure @ Receipt:** 2.00" Hg  **Canister #:** 19649  **Received:** 02/13/20 14:03

**Comments:**  **Analyzed:** 02/25/20 06:23

---

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results ppbv</th>
<th>Results ug/m³</th>
<th>Flag</th>
<th>MDL ppbv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.185</td>
<td>0.33</td>
<td></td>
<td>0.0250</td>
</tr>
</tbody>
</table>

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FILE #: 4222.00

REPORTED: 03/24/20 12:32

SUBMITTED: 01/29/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Covington

---

**Description:** C3  
**Lab ID:** 0021311-02  
**Sampled:** 02/03/20 23:59

**Pressure @ Receipt:** 5.00” Hg  
**Canister #:** 19647  
**Received:** 02/13/20 14:03

**Comments:**

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
<td>ug/m³</td>
</tr>
<tr>
<td></td>
<td>Flag</td>
<td>ppbv</td>
</tr>
</tbody>
</table>

| Ethylene oxide | 0.0462  | 0.08    | 0.0250 |

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**FILE #:** 4222.00
**REPORTED:** 03/24/20 12:32
**SUBMITTED:** 01/29/20 to 03/06/20

**AQS SITE CODE:**

**SITE CODE:** Covington

---

**Description:** C4  **Lab ID:** 0021311-03  **Sampled:** 02/03/20 23:59

**Pressure @ Receipt:** 9.00" Hg  **Canister #:** 33535  **Received:** 02/13/20 14:03

**Comments:**  **Analyzed:** 02/25/20 08:15

---

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
<td>ug/m³</td>
</tr>
<tr>
<td>Ethylene oxide</td>
<td>0.0959</td>
<td>0.17</td>
</tr>
</tbody>
</table>

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FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20

SITE CODE: Covington

Description: C5
Pressure @ Receipt: 5.50" Hg
Canister #: SAT120
Received: 02/13/20 14:03
Sampled: 02/03/20 23:59

Lab ID: 0021311-04
Received: 02/13/20 14:03
Sampled: 02/03/20 23:59

Comments:

Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results ppbv</th>
<th>Results ug/m³</th>
<th>MDL ppbv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.181</td>
<td>0.33</td>
<td>0.0250</td>
</tr>
</tbody>
</table>

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FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20
AQS SITE CODE:
SITE CODE: Covington

Description: C2 Lab ID: 0021921-01 Sampled: 02/09/20 23:59
Pressure @ Receipt: 0.00" Hg Canister #: SAT085 Received: 02/19/20 11:05
Comments: Received at ambient Analyzed: 03/03/20 17:38

Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.389</td>
<td>0.70</td>
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<tr>
<td></td>
<td>0.0250</td>
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</tbody>
</table>

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FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20
AQS SITE CODE: Covington

SITE CODE:

Description: C3
Pressure @ Receipt: 3.50" Hg
Comments:

Lab ID: 0021921-02
Canister #: SAT182
Sampled: 02/09/20 23:59
Received: 02/19/20 11:05
Analyzed: 03/03/20 18:33

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
<td>ug/m³</td>
</tr>
<tr>
<td>Ethylene oxide</td>
<td>0.299</td>
<td>0.54</td>
</tr>
</tbody>
</table>

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FILE #:  4222.00
REPORTED:  03/24/20 12:32
SUBMITTED:  01/29/20  to 03/06/20
AQS SITE CODE:  

SITE CODE:  Covington

Description:  C4  Lab ID:  0021921-03  Sampled:  02/09/20 23:59
Pressure @ Receipt:  8.00" Hg  Canister #:  SAT140  Received:  02/19/20 11:05
Comments:  

Analyzed:  02/25/20 16:00

<table>
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<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
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<tr>
<td>Ethylene oxide</td>
<td>0.534</td>
<td>0.96</td>
</tr>
</tbody>
</table>

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FAX: (919) 541-0516

**FILE #:** 4222.00  
**REPORTED:** 03/24/20 12:32  
**SUBMITTED:** 01/29/20 to 03/06/20  
**SITE CODE:** Covington  
**AQS SITE CODE:**

**Description:** C5  
**Lab ID:** 0021921-04  
**Pressure @ Receipt:** 0.00" Hg  
**Canister #:** 19644  
**Comments:** Received at ambient  
**Received:** 02/19/20 11:05  
**Sampled:** 02/09/20 23:59  
**Received:** 02/19/20 11:05  
**Sampled:** 02/09/20 23:59

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

<table>
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<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td>Ethylene oxide</td>
<td>0.0791</td>
<td>0.14</td>
</tr>
</tbody>
</table>

**Eastern Research Group**  
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PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20
AQS SITE CODE:
SITE CODE: Covington

Description: C4 QA
Pressure @ Receipt: 3.50" Hg
Lab ID: 0022108-01
Canister #: SAT036

Comments:

Received: 02/15/20 23:59
Sampled: 02/15/20 23:59
Received: 02/21/20 12:44
Sampled: 02/21/20 12:44
Analyzed: 03/04/20 00:04
Analyzed: 03/04/20 00:04

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

<table>
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<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
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</tr>
<tr>
<td>Ethylene oxide</td>
<td>0.456</td>
<td>0.82</td>
</tr>
</tbody>
</table>

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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: 03/24/20 12:32

SUBMITTED: 01/29/20 to 03/06/20

AQS SITE CODE: Covington

---

**Description:** C2  
**Lab ID:** 0022425-01  
**Sampled:** 02/15/20 23:59

**Pressure @ Receipt:** 2.00” Hg  
**Canister #:** 18889  
**Received:** 02/24/20 10:36

**Comments:**

---

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

<table>
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<td>Ethylene oxide</td>
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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:  03/24/20  12:32
SUBMITTED:  01/29/20  to 03/06/20
FILE #:  4222.00
REPORTED:  03/24/20  12:32
SUBMITTED:  01/29/20  to 03/06/20

SITE CODE: Covington

Description:  C3  Lab ID:  0022425-02  Sampled:  02/15/20  23:59
Pressure @ Receipt:  4.00" Hg  Canister #:  SAT096  Received:  02/24/20  10:36
Comments:          Analyzed:  03/04/20  02:50

Air Toxics by EPA Compendium Method TO-15

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FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20
AQS SITE CODE: Covington

SITE CODE: Covington

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Air Toxics by EPA Compendium Method TO-15

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## Description

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## Comments

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## Air Toxics by EPA Compendium Method TO-15

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FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20

SITE CODE: Covington

Description: C3
Lab ID: 0022816-02
Canister #: 2527

Pressure @ Receipt: 3.00" Hg
Sampled: 02/21/20 23:59
Received: 02/28/20 13:29

Comments: Analyzed: 03/05/20 03:35

Air Toxics by EPA Compendium Method TO-15

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</table>
CERTIFICATE OF ANALYSIS

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4244 International Pkwy, Suite 120
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FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20
FILE #:
SITE CODE:
AQS SITE CODE:

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

FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20
FILE #:
SITE CODE:
AQS SITE CODE:

Description: C4
Pressure @ Receipt: 0.00" Hg
Comments: Received at ambient

Lab ID: 0022816-03
Canister #: 5101

Received: 02/21/20 23:59
Sampled: 02/28/20 13:29
Received: 02/28/20 13:29
Sampled: 02/21/20 23:59

Air Toxics by EPA Compendium Method TO-15

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FILE #:  4222.00
REPORTED:  03/24/20 12:32
SUBMITTED:  01/29/20 to 03/06/20
AQS SITE CODE: Co
SITE CODE: Covington

Description:  C5  Lab ID:  0022816-04  Sampled:  02/21/20 23:59
Pressure @ Receipt:  0.00" Hg  Canister #:  19662  Received:  02/28/20 13:29
Comments:  Received at ambient  Analyzed:  03/05/20 05:25

Air Toxics by EPA Compendium Method TO-15

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4
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ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912  FAX: (919) 541-0516

AQS SITE CODE: Covington
FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20

SITE CODE:

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Air Toxics by EPA Compendium Method TO-15

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Air Toxics by EPA Compendium Method TO-15

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

FILE #: 4222.00
REPORTED: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20
AQS SITE CODE:

SITE CODE: Covington

Description: C3  Lab ID: 0030604-02  Sampled: 02/27/20 23:59
Pressure @ Receipt: 4.50" Hg  Canister #: 5103  Received: 03/06/20 10:50
Comments:  Analyzed: 03/16/20 22:30

Air Toxics by EPA Compendium Method TO-15

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

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<th>Analyte</th>
<th>Results</th>
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<tr>
<td>Ethylene oxide</td>
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</table>
### CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

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ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 03/24/20 12:32

SUBMITTED: 01/29/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Covington

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**Description:** C5  
**Lab ID:** 0030604-04  
**Sampled:** 02/27/20 23:59

**Pressure @ Receipt:** 0.0 psig  
**Canister #:** SAT099  
**Received:** 03/06/20 10:50

**Comments:**

**Analyzed:** 03/17/20 00:39

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

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Atlanta, GA 30354

**ATTN:** Ms. Jaime Gore

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

**SITE CODE:** Covington

---

**Description:** C7 - SA

**Lab ID:** 0030604-05

**Pressure @ Receipt:** 0.00 psig

**Canister #:** 5146

**Comments:**

**Sampled:** 02/27/20 23:59

**Received:** 03/06/20 10:50

**Analyzed:** 03/17/20 01:44

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

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FILE #:  4222.00
REPORTED:  03/24/20 12:32
SUBMITTED:  01/29/20  to 03/06/20
AQS SITE CODE:
SITE CODE:  Covington

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</table>

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.

Page 45 of 47
### 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**

**AQS SITE CODE:** Covington

---

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

#### Sequence 2002042

**Calibration Check (2002042-CCV1)**

Prepared & Analyzed: 02/19/20

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>% Difference</th>
<th>Limit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>2.61</td>
<td>ppbv</td>
<td>4.5</td>
<td>30.00</td>
</tr>
</tbody>
</table>

#### Sequence 2002044

**Calibration Check (2002044-CCV1)**

Prepared: 02/20/20  Analyzed: 02/21/20

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>% Difference</th>
<th>Limit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>2.66</td>
<td>ppbv</td>
<td>6.3</td>
<td>30.00</td>
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</table>

#### Sequence 2002051

**Calibration Check (2002051-CCV1)**

Prepared: 02/19/20  Analyzed: 02/24/20

<table>
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<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>% Difference</th>
<th>Limit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>2.76</td>
<td>ppbv</td>
<td>10.6</td>
<td>30.00</td>
</tr>
</tbody>
</table>

#### Sequence 2003009

**Calibration Check (2003009-CCV1)**

Prepared & Analyzed: 03/03/20

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>% Difference</th>
<th>Limit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>2.43</td>
<td>ppbv</td>
<td>-2.7</td>
<td>30.00</td>
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#### Sequence 2003013

**Calibration Check (2003013-CCV1)**

Prepared & Analyzed: 03/04/20

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<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>% Difference</th>
<th>Limit (%)</th>
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</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>2.87</td>
<td>ppbv</td>
<td>14.6</td>
<td>30.00</td>
</tr>
</tbody>
</table>

#### Sequence 2003022

**Calibration Check (2003022-CCV1)**

Prepared: 03/09/20  Analyzed: 03/13/20

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>% Difference</th>
<th>Limit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>2.50</td>
<td>ppbv</td>
<td>1.0</td>
<td>30.00</td>
</tr>
</tbody>
</table>

#### Sequence 2003031

**Calibration Check (2003031-CCV1)**

Prepared & Analyzed: 03/16/20

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>% Difference</th>
<th>Limit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>2.77</td>
<td>ppbv</td>
<td>12.1</td>
<td>30.00</td>
</tr>
</tbody>
</table>

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*Eastern Research Group*

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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: 03/24/20 12:32
SUBMITTED: 01/29/20 to 03/06/20

SITE CODE: Covington

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 acetate, 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
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April 23, 2020

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 02/24/20 10:36.

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

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 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: 04/23/20 07:38
SUBMITTED: 02/24/20

AQS SITE CODE:
SITE CODE: Covington

ANALYTICAL REPORT FOR SAMPLES

<table>
<thead>
<tr>
<th>SampleName</th>
<th>LabNumber</th>
<th>Matrix</th>
<th>Sampled</th>
<th>Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>C5</td>
<td>0022425-04</td>
<td>Air</td>
<td>02/15/20 23:59</td>
<td>02/24/20 10:36</td>
</tr>
</tbody>
</table>

Description: C5
Lab ID: 0022425-04
Sampled: 02/15/20 23:59

Pressure @ Receipt: 0.00" Hg
Canister #: A21105
Received: 02/24/20 10:36

Comments: Received at ambient

Analyzed: 03/04/20 05:35

Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
<td>ug/m³</td>
</tr>
<tr>
<td>Ethylene oxide</td>
<td>0.397</td>
<td>0.72</td>
</tr>
</tbody>
</table>

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CERTIFICATE OF ANALYSIS

Eastern Research Group

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<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>Source Result</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>Notes</th>
</tr>
</thead>
</table>

FILE #: 4222.00
REPORTED: 04/23/20 07:38
SUBMITTED: 02/24/20
AQS SITE CODE: Covington

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

SITE CODE: Covington
<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>% Difference</th>
<th>Limit (%)</th>
<th>Notes</th>
</tr>
</thead>
</table>

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4244 International Pkwy, Suite 120
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ATTN: Ms. Jaime Gore
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FILE #: 4222.00
REPORTED: 04/23/20 07:38
SUBMITTED: 02/24/20
AQS SITE CODE: Covington
SITE CODE: Covington

Notes and Definitions

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.
C4, 0.78 μg/m³
C5, 0.28 μg/m³
C2, 0.43 μg/m³
C3, 0.4 μg/m³

Becton Dickinson
Becton Dickinson Warehouse

Ethylene Oxide Sampling
Covington, GA

01/22/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group
Note:
1. ND = Non-Detect
2. X = Not Analyzed

Site ID, Concentration (µg/m³)
C4, X
C5, 0.18 µg/m³
C3, 0.51 µg/m³
C2, 0.84 µg/m³

Ethylene Oxide Sampling
Covington, GA
01/25/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group

Department of Natural Resources
Environmental Protection Division
**Site ID, Concentration (µg/m³)**

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Concentration (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C4</td>
<td>0.55 µg/m³</td>
</tr>
<tr>
<td>C5</td>
<td>0.77 µg/m³</td>
</tr>
<tr>
<td>C2</td>
<td>1.01 µg/m³</td>
</tr>
<tr>
<td>C3</td>
<td>0.16 µg/m³</td>
</tr>
</tbody>
</table>

**Note:**
1. ND = Non-Detect
2. X = Not Analyzed

**Ethylene Oxide Sampling**

Covington, GA

01/28/2020

Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group
Note:
1. ND = Non-Detect
2. X = Not Analyzed

**Site ID, Concentration (µg/m³)**

- C4, 0.61 µg/m³
- C5, 0.36 µg/m³
- C3, 0.17 µg/m³

Ethylene Oxide Sampling
Covington, GA

01/30/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group
Ethylene Oxide Sampling
Covington, GA

January 2020 Site Average Values
Note: Not detectable values were included in average calculations as a value of 0.
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Number of Samples</th>
<th>Concentration (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2, 7</td>
<td>0.55</td>
<td></td>
</tr>
<tr>
<td>C3, 9</td>
<td>0.32</td>
<td></td>
</tr>
<tr>
<td>C4, 7</td>
<td>0.48</td>
<td></td>
</tr>
<tr>
<td>C5, 7</td>
<td>0.38</td>
<td></td>
</tr>
</tbody>
</table>
Note:
1. ND = Non-Detect
2. X = Not Analyzed

Site ID, Concentration (µg/m³)

C4, 0.17 µg/m³
C5, 0.33 µg/m³
C2, 0.33 µg/m³
C3, 0.08 µg/m³

Ethylene Oxide Sampling
Covington, GA

02/03/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group
**Site ID, Concentration (μg/m³)**

<table>
<thead>
<tr>
<th>Site</th>
<th>Concentration (μg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C4</td>
<td>0.96</td>
</tr>
<tr>
<td>C5</td>
<td>0.14</td>
</tr>
<tr>
<td>C2</td>
<td>0.7</td>
</tr>
<tr>
<td>C3</td>
<td>0.54</td>
</tr>
</tbody>
</table>

**Note:**
1. ND = Non-Detect
2. X = Not Analyzed

Ethylene Oxide Sampling
Covington, GA

02/09/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group
Ethylene Oxide Sampling
Covington, GA

02/15/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group

Note:
1. ND = Non-Detect
2. X = Not Analyzed

Site ID, Concentration (µg/m³)

<table>
<thead>
<tr>
<th>Site</th>
<th>Concentration (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C4</td>
<td>0.85</td>
</tr>
<tr>
<td>C5</td>
<td>0.72</td>
</tr>
<tr>
<td>C2</td>
<td>0.15</td>
</tr>
<tr>
<td>C3</td>
<td>0.29</td>
</tr>
</tbody>
</table>
02/21/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group
Note:
1. ND = Non-Detect
2. X = Not Analyzed

Ethylene Oxide Sampling
Covington, GA

02/27/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group
Ethylene Oxide Sampling
Covington, GA

February 2020 Site Average Values
Note: Not detectable values were included in average calculations as a value of 0.
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group