

ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

EPD Director's Office

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

November 5, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington August 25-31, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of August 19-31, 2020 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 Qualifier code of "2" was given to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. The samples listed as AF indicate that the sample was scheduled but not collected. The sample listed as AN indicate that the sampler malfunctioned while collecting sample. No samples were taken at location C1, C6, C7, C8, or C9 during this period.

Location	Date	Qualifier	EtO Concentration (ug/m³)	
C2	08/19/2020		AF	
C2	08/25/2020		AF	
C2	08/31/2020		0.15	
C3	08/19/2020		AF	
C3	08/25/2020		AF	
C3	08/31/2020	2	0.30	
C4	08/19/2020		AN	
C4	08/25/2020		0.55	
C4	08/31/2020		0.51	
C5	08/19/2020		AF	
C5	08/25/2020		AF	
C5	08/31/2020		0.19	

If you have any questions, please let me know.



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

October 06, 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 09/02/20 12:17 through 09/04/20 12:57.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited unter the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). 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.



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: 10/06/20 13:49

SUBMITTED: 09/02/20 to 09/04/20

AQS SITE CODE:

SITE CODE: Covington

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	Received
C4	0090239-01	Air	08/25/20 23:59	09/02/20 12:17
C2	0090413-01	Air	08/31/20 23:59	09/04/20 12:57
C3	0090413-02	Air	08/31/20 23:59	09/04/20 12:57
C4	0090413-03	Air	08/31/20 23:59	09/04/20 12:57
C5	0090413-04	Air	08/31/20 23:59	09/04/20 12:57



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C4

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 5.50" Hg

FILE #: 4222.00

REPORTED: 10/06/20 13:49

SUBMITTED: 09/02/20 to 09/04/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0090239-01 Sampled: 08/25/20 23:59 **Canister #:** 5045 Received: 09/02/20 12:17 **Analyzed:** 09/09/20 19:04

Air Toxics by EPA Compendium Method TO-15

<u>MDL</u> Results ppbv ug/m³ <u>Flag</u> ppbv 0.305 0.55 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C2

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 2.50" Hg

REPORTED: 10/06/20 13:49

SUBMITTED: 09/02/20 to 09/04/20

AQS SITE CODE:

FILE #: 4222.00

SITE CODE: Covington

Lab ID: 0090413-01 Sampled: 08/31/20 23:59 **Canister #:** 19276 Received: 09/04/20 12:57 **Analyzed:** 09/09/20 21:48

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

0.0850

0.15

MDL ppbv 0.0285

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.



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C3

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Comments: Received at ambient pressure

Pressure @ Receipt: 0.00" Hg

0.167

FILE #: 4222.00

REPORTED: 10/06/20 13:49

SUBMITTED: 09/02/20 to 09/04/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0090413-02 Sampled: 08/31/20 23:59 **Canister #:** A21026 Received: 09/04/20 12:57 **Analyzed:** 09/09/20 22:43

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³ <u>Flag</u>

0.30

MDL ppbv 0.0285

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U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C4

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 5.00" Hg

FILE #: 4222.00

REPORTED: 10/06/20 13:49

SUBMITTED: 09/02/20 to 09/04/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0090413-03 Sampled: 08/31/20 23:59 **Canister #:** A22328 Received: 09/04/20 12:57 **Analyzed:** 09/09/20 23:38

Air Toxics by EPA Compendium Method TO-15

Results

<u>Flag</u>

MDL

Analyte Ethylene oxide

Comments:

ppbv ug/m³ 0.283

0.51

ppbv 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C5

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 3.50" Hg

FILE #: 4222.00

REPORTED: 10/06/20 13:49

SUBMITTED: 09/02/20 to 09/04/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0090413-04 Sampled: 08/31/20 23:59 **Canister #:** 18837 Received: 09/04/20 12:57 **Analyzed:** 09/10/20 00:33

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

<u>MDL</u>

Analyte Ethylene oxide

Comments:

0.106

0.19

ppbv 0.0285



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: 10/06/20 13:49

SUBMITTED: 09/02/20 to 09/04/20

AQS SITE CODE:

SITE CODE: Covington

Source RPD
Analyte Result Units Result RPD Limit Notes

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

Batch B0I0910 - Summa Canister Prep

Blank (B0I0910-BLK1) Prepared & Analyzed: 09/09/20

Ethylene oxide ND ppbv U

Eastern Research Group

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REPORTED: 10/06/20 13:49

SUBMITTED: 09/02/20 to 09/04/20

AQS SITE CODE:

SITE CODE: Covington

Analyte Result Units % Difference Limit (%) Notes

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

Sequence 2009019

Calibration Check (2009019-CCV1) Prepared & Analyzed: 09/09/20

Ethylene oxide 2.96 ppbv 18.5 30.00

Eastern Research Group

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ATTN: Ms. Jaime Gore

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FILE #: 4222.00

REPORTED: 10/06/20 13:49

SUBMITTED: 09/02/20 to 09/04/20

AQS SITE CODE:

SITE CODE: Covington

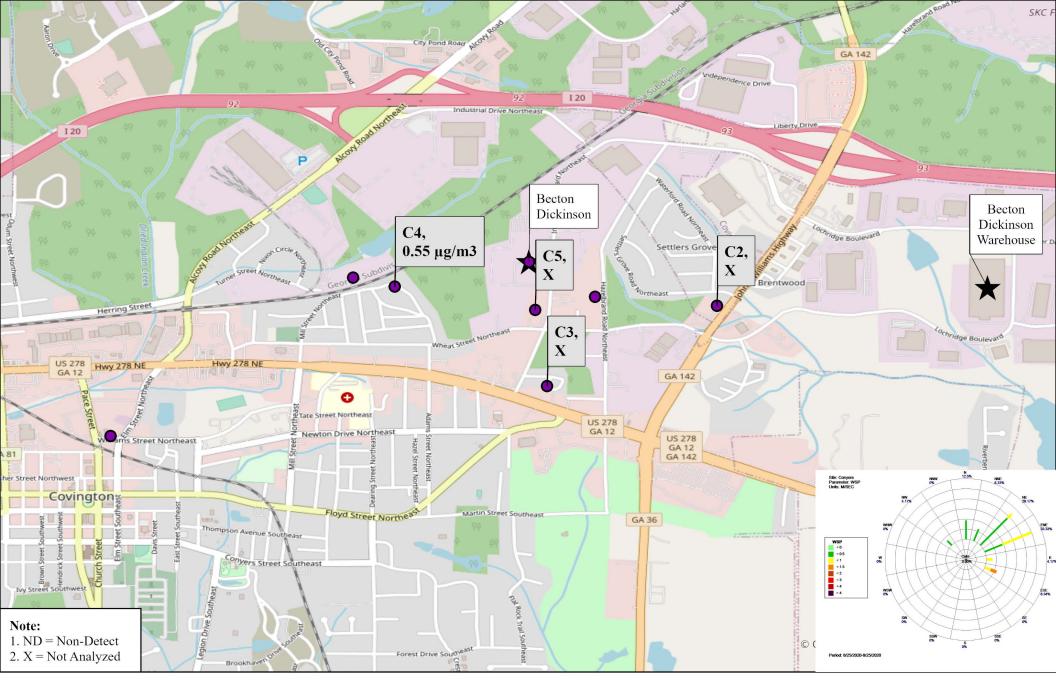
Notes and Definitions

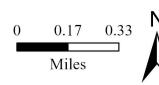
U Under Detection Limit
ND Analyte NOT DETECTED

NR Not Reported

MDL Method Detection Limit
RPD Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.





Site ID, Concentration (µg/m3)

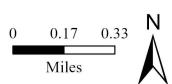
Ethylene Oxide Sampling Covington, GA

08/25/2020

Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group







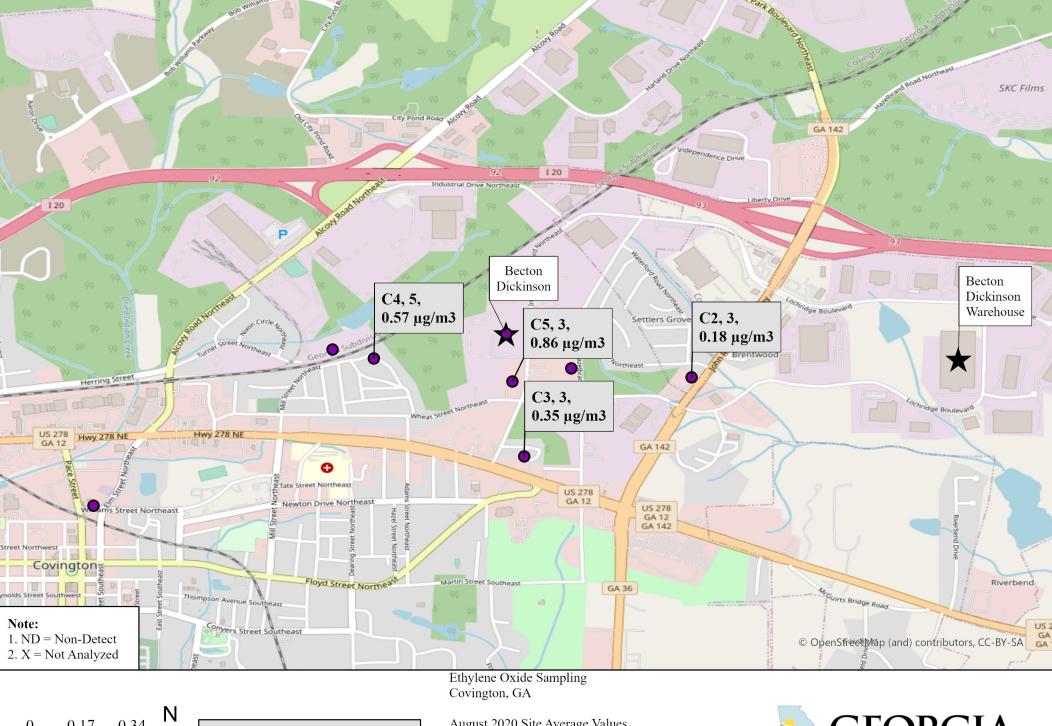
Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling Covington, GA

08/31/2020

Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group





0.17 0.34 Miles

Site ID, Number of Samples, Concentration (µg/m3)

August 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

