

#### **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 29, 2021

#### **MEMORANDUM**

To: Karen Hays, Air Branch Chief

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington May 4-10, 2021, Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of May 4-10, 2021, 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 "LK" was given by ERG to indicate that the sample may be biased high. 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. No samples were taken at location C1, C6, C7, C8, or C9 during this period.

Location	Date	Qualifier	EtO Concentration (ug/m³)
C2	05/04/2021	LK	0.30
C2	05/10/2021	LK, 2	0.69
C3	05/04/2021		0.11
C3	05/10/2021		0.19
C4	05/04/2021		0.61
C4	05/10/2021	2	0.10
C5	05/04/2021		0.49
C5	05/10/2021		0.18

If you have any questions, please let me know.

DGO/do



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

July 09, 2021

Ms. Jaime Gore GA Ambient Monitoring Program 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 05/19/21 14:06.

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 under 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

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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:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

**AQS SITE CODE:** 

SITE CODE: Covington

#### **ANALYTICAL REPORT FOR SAMPLES**

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	Received
C2	1051942-01	Air	05/04/21 23:59	05/19/21 14:06
C3	1051942-02	Air	05/04/21 23:59	05/19/21 14:06
C4	1051942-03	Air	05/04/21 23:59	05/19/21 14:06
C5	1051942-04	Air	05/04/21 23:59	05/19/21 14:06
C2	1051942-05	Air	05/10/21 23:59	05/19/21 14:06
C3	1051942-06	Air	05/10/21 23:59	05/19/21 14:06
C4	1051942-07	Air	05/10/21 23:59	05/19/21 14:06
C5	1051942-08	Air	05/10/21 23:59	05/19/21 14:06



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

**Description:** C2

**Comments:** 

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 5.50" Hg

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

FILE #: 4222.00

**REPORTED:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

**AQS SITE CODE:** 

SITE CODE: Covington

Lab ID: 1051942-01 Sampled: 05/04/21 23:59 Canister #: SAT081 Received: 05/19/21 14:06 **Analyzed:** 06/03/21 21:40

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

MDL Results **Analyte** ppbv ug/m<sup>3</sup> <u>Flag</u> ppbv Ethylene oxide 0.165 0.30 LK 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

**Description:** C3

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 6.50" Hg

FILE #: 4222.00

**REPORTED:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

**AQS SITE CODE:** 

SITE CODE: Covington

Lab ID: 1051942-02 Sampled: 05/04/21 23:59 **Canister #:** 110257 Received: 05/19/21 14:06 **Analyzed:** 06/03/21 22:41

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

**Results** 

<u>Flag</u>

ppbv ug/m<sup>3</sup>

**MDL** ppbv

Ethylene oxide

**Analyte** 

**Comments:** 

0.0596 0.11 0.0261



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: 7.00" Hg

Lab ID:

1051942-03

**Canister #:** 0049

SITE CODE:

**AQS SITE CODE:** 

FILE #: 4222.00

**REPORTED:** 07/09/21 13:27

Covington

**SUBMITTED:** 05/19/21

Received: 05/19/21 14:06 **Analyzed:** 06/03/21 23:42

Sampled: 05/04/21 23:59

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

**Results** 

0.338

ppbv ug/m<sup>3</sup>

0.61

<u>Flag</u>

**MDL** ppbv 0.0261

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

ATTN: Ms. Jaime Gore

**Description:** C5

**Comments:** 

**Analyte** 

Ethylene oxide

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

Pressure @ Receipt: 4.50" Hg

FILE #: 4222.00

**REPORTED:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

**AQS SITE CODE:** 

SITE CODE: Covington

Lab ID: 1051942-04 Sampled: 05/04/21 23:59 **Canister #:** A21099 Received: 05/19/21 14:06 **Analyzed:** 06/03/21 18:43

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

<u>MDL</u>

**Results** ppbv ug/m<sup>3</sup> <u>Flag</u>

ppbv 0.270 0.49 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

**Description:** C2

**Comments:** 

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 9.00" Hg

FILE #: 4222.00

**REPORTED:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

**AQS SITE CODE:** 

SITE CODE: Covington

Lab ID: 1051942-05 Sampled: 05/10/21 23:59 **Canister #:** A21071 Received: 05/19/21 14:06 **Analyzed:** 06/08/21 00:58

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

MDL Results **Analyte** ppbv ug/m<sup>3</sup> <u>Flag</u> ppbv Ethylene oxide 0.384 0.69 LK 0.0261



FILE #: 4222.00

**AQS SITE CODE:** 

SITE CODE:

**REPORTED:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

**Description:** C3

**Comments:** 

**Analyte** 

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 7.00" Hg

Lab ID:

1051942-06

**Canister #:** 33534

Covington

Sampled: 05/10/21 23:59 Received: 05/19/21 14:06

**Analyzed:** 06/08/21 01:59

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

**Results** ppbv ug/m<sup>3</sup>

0.19

0.104

<u>Flag</u>

**MDL** ppbv 0.0261

Eastern Research Group

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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: 1.00" Hg

FILE #: 4222.00

**REPORTED:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

**AQS SITE CODE:** 

SITE CODE: Covington

Lab ID: 1051942-07 Sampled: 05/10/21 23:59 **Canister #:** 33532 Received: 05/19/21 14:06 **Analyzed:** 06/08/21 03:00

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

Results ppbv ug/m<sup>3</sup>

0.10

0.0553

<u>Flag</u>

**MDL** ppbv 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

**Description:** C5

**Comments:** 

**Analyte** 

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 5.00" Hg

FILE #: 4222.00

**REPORTED:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

**AQS SITE CODE:** 

SITE CODE: Covington

Lab ID: 1051942-08 Sampled: 05/10/21 23:59 **Canister #:** A21025 Received: 05/19/21 14:06 **Analyzed:** 06/08/21 04:00

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

**MDL** 

**Results** ppbv ug/m<sup>3</sup> <u>Flag</u>

0.18

0.0977

ppbv 0.0261

Eastern Research Group

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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:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

**AQS SITE CODE:** 

SITE CODE: Covington

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendiu Batch B1F0212 - Summa Canist		- Quality Con	trol			
Blank (B1F0212-BLK1)			Prepared: 06/02/21 Ana	alyzed: 06/03/2	1	
Ethylene oxide	ND	ppbv				U
Batch B1F0307 - Summa Canist	er Prep					
Blank (B1F0307-BLK1)			Prepared & Analyzed: 06	5/03/21		
Ethylene oxide	ND	ppbv				U
Batch B1F0708 - Summa Canist	er Prep					
Blank (B1F0708-BLK1)			Prepared & Analyzed: 06	5/07/21		
Ethylene oxide	ND	ppbv				U



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FILE #: 4222.00

**REPORTED:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

**AQS SITE CODE:** 

SITE CODE: Covington

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendium Sequence 2106009	Method TO-15	- Quality Con	trol		
Calibration Check (2106009-CCV1	Prepared & Analyzed: 06/03/21				
Ethylene oxide	2.13	ppbv	-14.9	30.00	
Sequence 2106013					
Calibration Check (2106013-CCV1	.)	Prepared & Analyzed: 06/03/21			
Ethylene oxide	2.54	ppbv	4.9	30.00	
Sequence 2106019					
Calibration Check (2106019-CCV1	Prepared & Analyzed: 06/07/21				
Ethylene oxide	2.30	ppbv	-8.1	30.00	



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FILE #: 4222.00

**REPORTED:** 07/09/21 13:27

**SUBMITTED:** 05/19/21

**AQS SITE CODE:** 

SITE CODE: Covington

#### **Notes and Definitions**

U Under Detection Limit
ND Analyte NOT DETECTED

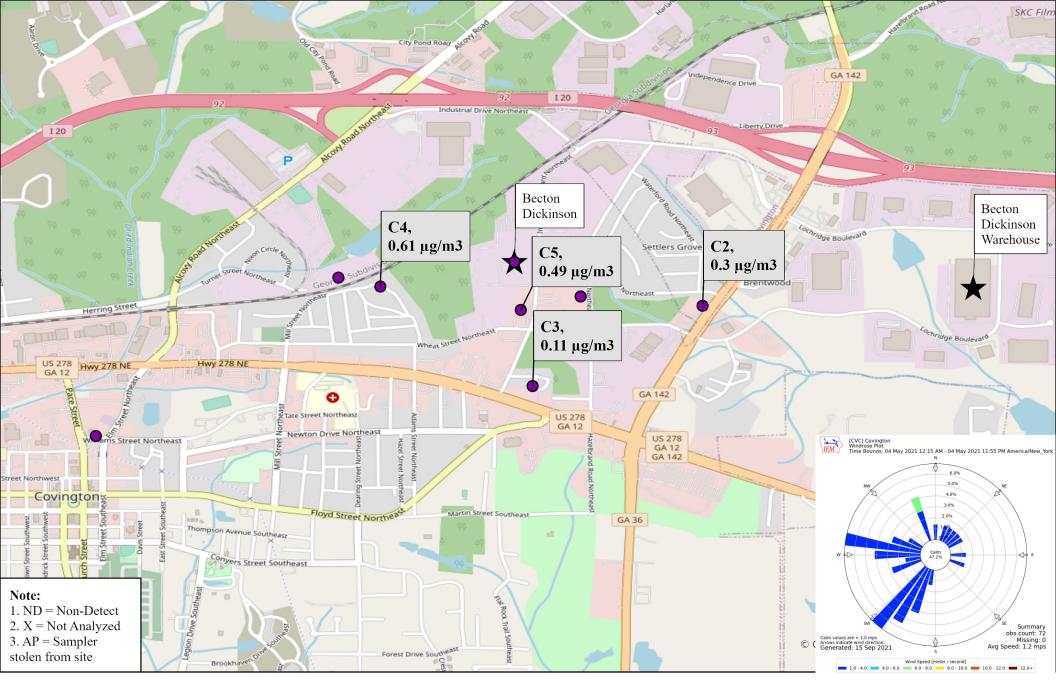
NR Not Reported

MDL Method Detection Limit Relative

RPD Percent Difference

LK Analyte identified; Reported value may be biased high.

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.





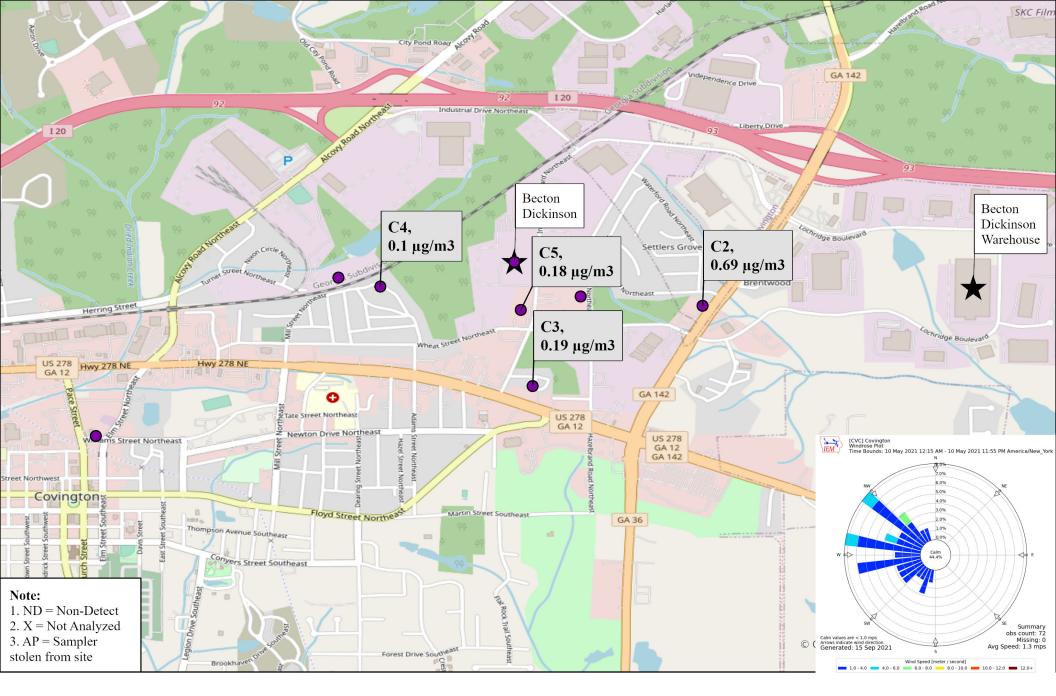
Ethylene Oxide Sampling Covington, GA

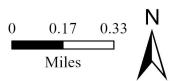
05/04/2021

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group







Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling Covington, GA

05/10/2021

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group

