

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: Cobb – May 04 – May 10, 2021, Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of May 04 – May 10, 2021, by the Ambient Monitoring Program in the Cobb area to characterize the EtO concentration. Each of the samples were sent to Eastern Research Group (ERG) for analysis. The Qualifier code of "3" was given to samples to indicate that integrity of the field data may have been compromised. 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.

Location	Date	Qualifier	EtO Concentration (ug/m³)
S1	05/04/2021		0.20
S1	05/10/2021	2	0.09
S2	05/04/2021	3	0.30
S2	05/10/2021	3	0.09
S3	05/04/2021		0.14
S3	05/10/2021		0.33
S4	05/04/2021		0.49
S4	05/10/2021	2	0.17

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: Cobb

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 13:41.

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

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: 07/09/21 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	Received
S1	1051939-01	Air	05/04/21 23:59	05/19/21 13:41
S2	1051939-02	Air	05/04/21 23:59	05/19/21 13:41
S4	1051939-03	Air	05/04/21 23:59	05/19/21 13:41
S3	1051939-04	Air	05/04/21 23:59	05/19/21 13:41
S1	1051939-05	Air	05/10/21 23:59	05/19/21 13:41
S2	1051939-06	Air	05/10/21 23:59	05/19/21 13:41
S3	1051939-07	Air	05/10/21 23:59	05/19/21 13:41
S4	1051939-08	Air	05/10/21 23:59	05/19/21 13:41



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FILE #: 4222.00

REPORTED: 07/09/21 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

 Description:
 S1
 Lab ID:
 1051939-01
 Sampled: 05/04/21 23:59

 Pressure @ Receipt:
 6.00" Hg
 Canister #:
 33503
 Received: 05/19/21 13:41

 Comments:
 Analyzed: 06/03/21 14:34

Air Toxics by EPA Compendium Method TO-15



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: S2

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 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

Lab ID: 1051939-02 Sampled: 05/04/21 23:59 **Canister #:** A21106 Received: 05/19/21 13:41

Analyzed: 05/21/21 10:22

Air Toxics by EPA Compendium Method TO-15

Results

<u>Flag</u>

ppbv ug/m³ 0.166 0.30

ppbv 0.0261

MDL

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: S4

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 6.00" Hg

FILE #: 4222.00

REPORTED: 07/09/21 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

Lab ID: 1051939-03 Sampled: 05/04/21 23:59 **Canister #:** A22304 Received: 05/19/21 13:41

Analyzed: 06/03/21 16:36

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

0.49

0.271

<u>Flag</u>

ppbv 0.0261

MDL

Eastern Research Group

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U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: S3

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 5.00" Hg

Comments: Changed per email from site

FILE #: 4222.00

REPORTED: 07/09/21 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

Sampled: 05/04/21 23:59

Received: 05/19/21 13:41 **Analyzed:** 06/03/21 17:37

Air Toxics by EPA Compendium Method TO-15

1051939-04

Results

MDL

Analyte Ethylene oxide

ppbv ug/m³ 0.0764

0.14

<u>Flag</u>

Canister #: 114340

Lab ID:

ppbv 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: S1

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 7.50" Hg

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

FILE #: 4222.00

REPORTED: 07/09/21 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

Lab ID: 1051939-05 Sampled: 05/10/21 23:59 Canister #: 114386 Received: 05/19/21 13:41

Analyzed: 06/04/21 01:44

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

MDL

Analyte Ethylene oxide

Comments:

0.0513

0.09

ppbv 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: S2

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 5.50" Hg

FILE #: 4222.00

REPORTED: 07/09/21 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

1051939-06 Sampled: 05/10/21 23:59

Analyzed: 06/07/21 17:50

Received: 05/19/21 13:41

Air Toxics by EPA Compendium Method TO-15

Results

ppbv ug/m³

<u>Flag</u>

Canister #: 18833

Lab ID:

MDL ppbv

Ethylene oxide

Analyte

Comments:

0.0506

0.09

0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: S3

Comments:

Analyte

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 07/09/21 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

Lab ID: 1051939-07 Sampled: 05/10/21 23:59 Pressure @ Receipt: 4.50" Hg **Canister #:** 110305 Received: 05/19/21 13:41 **Analyzed:** 06/07/21 19:53

Air Toxics by EPA Compendium Method TO-15

MDL

Results

<u>Flag</u>

Ethylene oxide 0.185

ppbv ug/m³ ppbv 0.33 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: S4

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 7.50" Hg

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

FILE #: 4222.00

REPORTED: 07/09/21 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

Lab ID: 1051939-08 Sampled: 05/10/21 23:59 **Canister #:** 110258 Received: 05/19/21 13:41 **Analyzed:** 06/07/21 20:54

Air Toxics by EPA Compendium Method TO-15

Results

<u>Flag</u>

ppbv ug/m³ 0.0964

0.17

ppbv 0.0261

MDL

Eastern Research Group

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FILE #: 4222.00

REPORTED: 07/09/21 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

1	-	11.9.	Source	200	RPD	Nicio
Analyte	Result	Units	Result	RPD	Limit	Notes
Air Toxics by EPA Compendium <i>Batch B1E2006 - Summa Canister</i>		- Quality Con	trol			
Blank (B1E2006-BLK1)			Prepared & Analyzed	d: 05/20/21		
Ethylene oxide	ND	ppbv				U
Batch B1F0212 - Summa Canister	Prep					
Blank (B1F0212-BLK1)			Prepared: 06/02/21	Analyzed: 06/03/21		
Ethylene oxide	ND	ppbv				U
Duplicate (B1F0212-DUP1)	Source:	: 1051939-01	Prepared: 05/04/21	Analyzed: 06/03/21		
Ethylene oxide	0.125	ppbv	0.11	12.5	25	
Batch B1F0708 - Summa Canister	Prep					
Blank (B1F0708-BLK1)			Prepared & Analyzed	d: 06/07/21		
Ethylene oxide	ND	ppbv				U
Duplicate (B1F0708-DUP1)	Source	: 1051939-06	Prepared: 05/10/21	Analyzed: 06/07/21		
Ethylene oxide	0.0467	ppbv	0.05	8.02	25	



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FILE #: 4222.00

REPORTED: 07/09/21 13:25

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendi Sequence 2105053	um Method TO-15	- Quality Con	ntrol		
Calibration Check (2105053-	CCV1)	F	Prepared & Analyze	ed: 05/20/21	
Ethylene oxide	2.17	ppbv	-10.2	30.00	
Sequence 2106009					
Calibration Check (2106009-	CCV1)	F	Prepared & Analyze	ed: 06/03/21	
Ethylene oxide	2.13	ppbv	-14.9	30.00	
Sequence 2106019					
Calibration Check (2106019-	CCV1)	F	Prepared & Analyze	ed: 06/07/21	
Ethylene oxide	2.30	ppbv	-8.1	30.00	

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SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Cobb

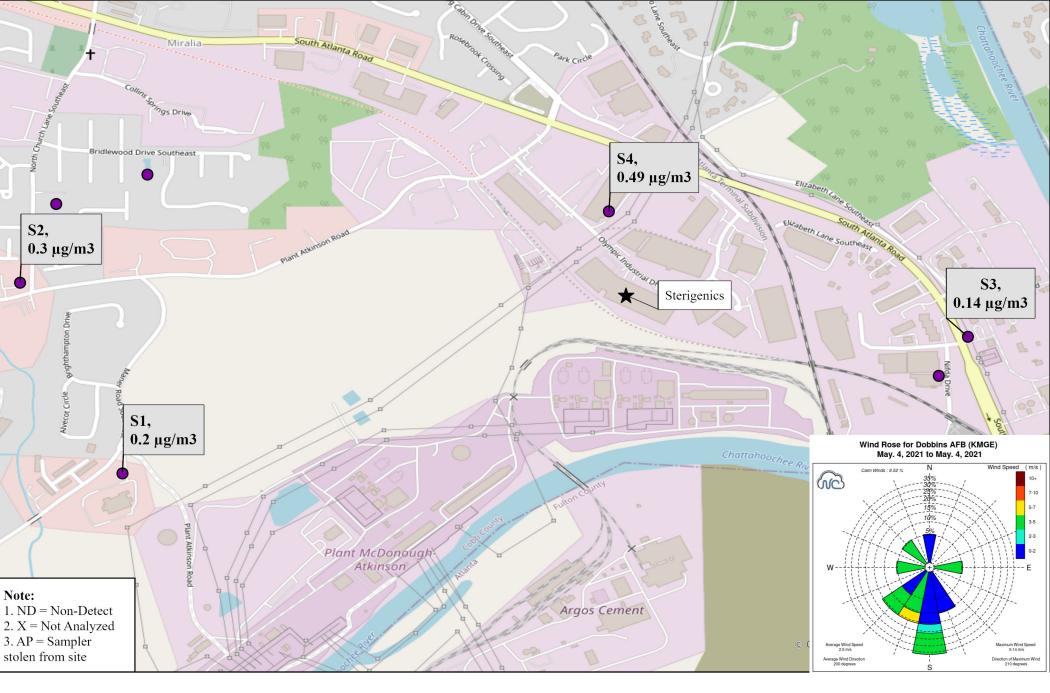
Notes and Definitions

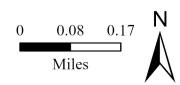
U Under Detection Limit
ND Analyte NOT DETECTED

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)

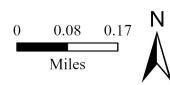
Ethylene Oxide Sampling Cobb County, GA

05/04/2021

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







Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling Cobb County, GA

05/10/2021

Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION