

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

April 8, 2022

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Fulton June 15, 2021 – June 27, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of June 15, 2021 – June 27, 2021, in the south Fulton area to characterize the EtO concentrations. The samples were sent to Eastern Research Group (ERG) for analysis. The Qualifier code of "2" is applied to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. Qualifier code "LK" is assigned by lab indicating Analyte Identified; Reported Value May Be Biased High. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m³)
F1	06/15/2021	2	0.41
F1	06/27/2021	2	0.41
F2	06/15/2021	2	0.37
F2	06/27/2021	2, LK	0.57
F2 QA	06/15/2021	2	0.20
F4	06/15/2021	2	0.27
F4	06/27/2021	LK	1.55

If you have any questions, please let me know.

DGO/do



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

August 25, 2021

Ms. Jaime Gore GA Ambient Monitoring Program 4244 International Pkwy, Suite 120 Atlanta, GA 30354 Project Name: Fulton

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 07/01/21 11:26 through 07/23/21 11:00.

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: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

AQS SITE CODE:

SITE CODE: Fulton

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	Received
F1	1070115-01	Air	06/15/21 23:59	07/01/21 11:26
F2	1070115-02	Air	06/15/21 23:59	07/01/21 11:26
F4	1070115-03	Air	06/15/21 23:59	07/01/21 11:26
Fulton FB	1070115-04	Air	06/24/21 23:59	07/01/21 11:26
F2 QA	1070206-01	Air	06/15/21 23:59	07/02/21 10:13
F1	1072321-01	Air	06/27/21 23:59	07/23/21 11:00
F2	1072321-02	Air	06/27/21 23:59	07/23/21 11:00
F4	1072321-03	Air	06/27/21 23:59	07/23/21 11:00



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F1

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 7.50" Hg

FILE #: 4222.00

REPORTED: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

AQS SITE CODE:

SITE CODE: **Fulton**

Sampled: 06/15/21 23:59

Received: 07/01/21 11:26 **Analyzed:** 07/09/21 06:15

Air Toxics by EPA Compendium Method TO-15

1070115-01

Results ppbv ug/m³

<u>Flag</u>

Canister #: 19640

MDL

Ethylene oxide

Analyte

Comments:

0.228 0.41

Lab ID:

ppbv 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F2

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 8.50" Hg

FILE #: 4222.00

REPORTED: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

Fulton

AQS SITE CODE:

SITE CODE:

Sampled: 06/15/21 23:59

Received: 07/01/21 11:26 **Analyzed:** 07/02/21 22:19

Air Toxics by EPA Compendium Method TO-15

1070115-02

Results

ppbv ug/m³

<u>Flag</u>

Canister #: A21036

Lab ID:

Analyte Ethylene oxide

Comments:

0.202 0.37

ppbv 0.0261

<u>MDL</u>



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F4

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 6.50 "Hg

FILE #: 4222.00

REPORTED: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

AQS SITE CODE:

SITE CODE: **Fulton**

Sampled: 06/15/21 23:59

Received: 07/01/21 11:26 **Analyzed:** 07/02/21 23:20

Air Toxics by EPA Compendium Method TO-15

1070115-03

Results

0.150

ppbv ug/m³

0.27

<u>Flag</u>

Canister #: 33529

Lab ID:

MDL ppbv 0.0261

Eastern Research Group



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Pressure @ Receipt: 29.5 " Hg

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

Description: Fulton FB

Comments: Field Blank

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

FILE #: 4222.00

REPORTED: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

AQS SITE CODE:

SITE CODE: **Fulton**

Sampled: 06/24/21 23:59

Received: 07/01/21 11:26 **Analyzed:** 07/20/21 15:52

Air Toxics by EPA Compendium Method TO-15

1070115-04

Results

<u>Flag</u>

Lab ID:

<u>MDL</u> ppbv

Analyte Ethylene oxide ppbv ug/m³ ND

ND

U

Canister #: A21031

0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

Description: F2 QA

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

Pressure @ Receipt: 7.00" Hg

FILE #: 4222.00

REPORTED: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

Fulton

AQS SITE CODE:

SITE CODE:

Sampled: 06/15/21 23:59 **Received:** 07/02/21 10:13

Analyzed: 07/09/21 07:16

Air Toxics by EPA Compendium Method TO-15

1070206-01

Results

Lab ID:

<u>Flag</u>

Canister #: 114386

MDL ppbv

Ethylene oxide

Analyte

Comments:

ppbv ug/m³ 0.111

0.20

0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F1

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 7.50" Hg

FILE #: 4222.00

REPORTED: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

AQS SITE CODE:

SITE CODE:

Fulton

Lab ID: 1072321-01 Sampled: 06/27/21 23:59 **Canister #:** 19650 Received: 07/23/21 11:00

Analyzed: 07/23/21 20:05

Air Toxics by EPA Compendium Method TO-15

Results

ppbv ug/m³ 0.229

0.41

<u>Flag</u>

ppbv 0.0261

MDL

Eastern Research Group



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F2

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 8.50" Hg

FILE #: 4222.00

REPORTED: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

Fulton

AQS SITE CODE:

SITE CODE:

Sampled: 06/27/21 23:59

Received: 07/23/21 11:00 **Analyzed:** 07/23/21 22:06

Air Toxics by EPA Compendium Method TO-15

1072321-02

Results ppbv ug/m³

0.57

0.318

<u>Flag</u>

Lab ID:

Canister #: SAT028

ppbv 0.0261

MDL

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U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F4

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: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

AQS SITE CODE:

SITE CODE: **Fulton**

Sampled: 06/27/21 23:59

Received: 07/23/21 11:00 **Analyzed:** 07/23/21 23:07

Air Toxics by EPA Compendium Method TO-15

1072321-03

Results ppbv ug/m³

1.55

0.857

<u>Flag</u>

Canister #: 35131

Lab ID:

MDL ppbv 0.0261

Eastern Research Group



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Atlanta, GA 30354

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

AQS SITE CODE:

SITE CODE: Fulton

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendiu		- Quality Con	trol			
Batch B1G0203 - Summa Canisto	er Prep					
Blank (B1G0203-BLK1)			Prepared & Analyzed	1: 07/02/21		
Ethylene oxide	ND	ppbv				U
Batch B1G0811 - Summa Canisto	er Prep					
Blank (B1G0811-BLK1)			Prepared & Analyzed: 07/08/21			
Ethylene oxide	ND	ppbv			·	U
Duplicate (B1G0811-DUP5)	Source:	1070206-01	Prepared: 06/15/21	Analyzed: 07/09/21		
Ethylene oxide	0.119	ppbv	0.11	6.79	25	
Batch B1G1308 - Summa Canisto	er Prep					
Blank (B1G1308-BLK1)			Prepared: 07/13/21	Analyzed: 07/20/21		
Ethylene oxide	ND	ppbv				U
Batch B1G2304 - Summa Canisto	er Prep					
Blank (B1G2304-BLK1)	-		Prepared & Analyzed	1: 07/23/21		
Ethylene oxide	ND	ppbv	<u> </u>			U
Duplicate (B1G2304-DUP1)	Source:	1072321-01	Prepared: 06/27/21	Analyzed: 07/23/21		
Ethylene oxide	0.230	ppbv	0.23	0.131	25	

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FILE #: 4222.00

REPORTED: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

AQS SITE CODE:

SITE CODE: Fulton

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compend Sequence 2107010	lium Method TO-15	- Quality Cor	ntrol		
Calibration Check (2107010	-CCV1)		Prepared & Analyze	ed: 07/02/21	
Ethylene oxide	2.17	ppbv	-13.3	30.00	
Sequence 2107022					
Calibration Check (2107022	-CCV1)		Prepared & Analyze	ed: 07/08/21	
Ethylene oxide	2.20	ppbv	-11.9	30.00	
Sequence 2107033					
Calibration Check (2107033	-CCV1)		Prepared & Analyze	ed: 07/20/21	
Ethylene oxide	2.36	ppbv	-5.6	30.00	
Sequence 2107070					
Calibration Check (2107070	-CCV1)		Prepared & Analyze	ed: 07/23/21	
Ethylene oxide	2.44	ppbv	-2.3	30.00	

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FILE #: 4222.00

REPORTED: 08/25/21 12:20

SUBMITTED: 07/01/21 to 07/23/21

AQS SITE CODE:

SITE CODE: Fulton

Notes and Definitions

U Under Detection Limit

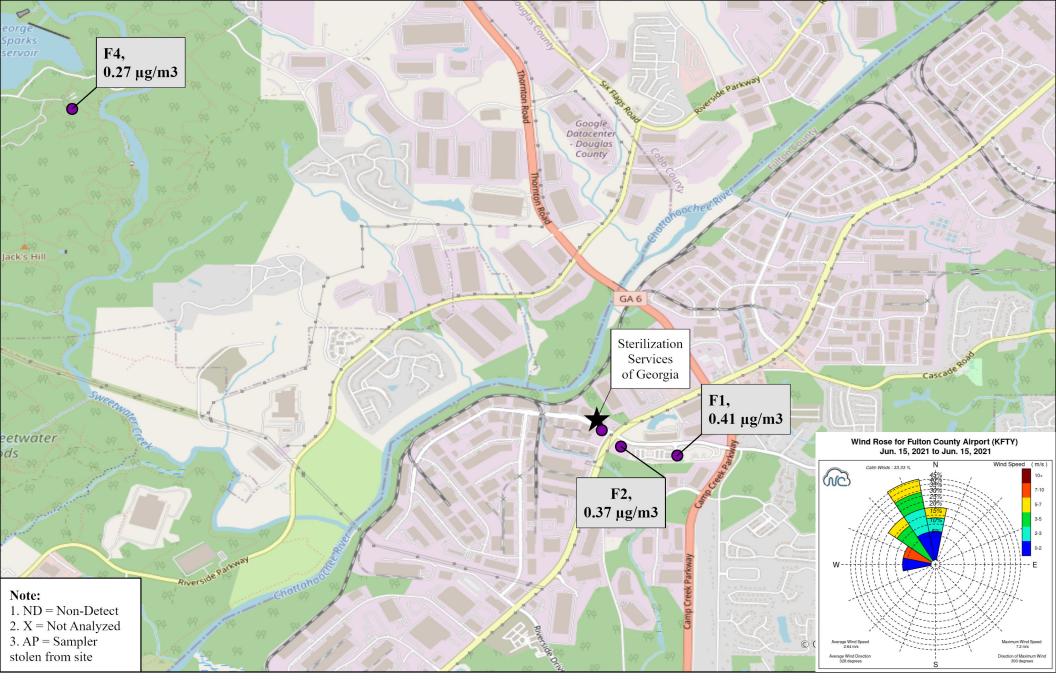
LK Analyte identified; Reported value may be biased high.

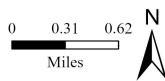
ND Analyte NOT DETECTED

NR Not Reported

MDL Method Detection Limit
RPD Relative Percent Difference

Note: 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.





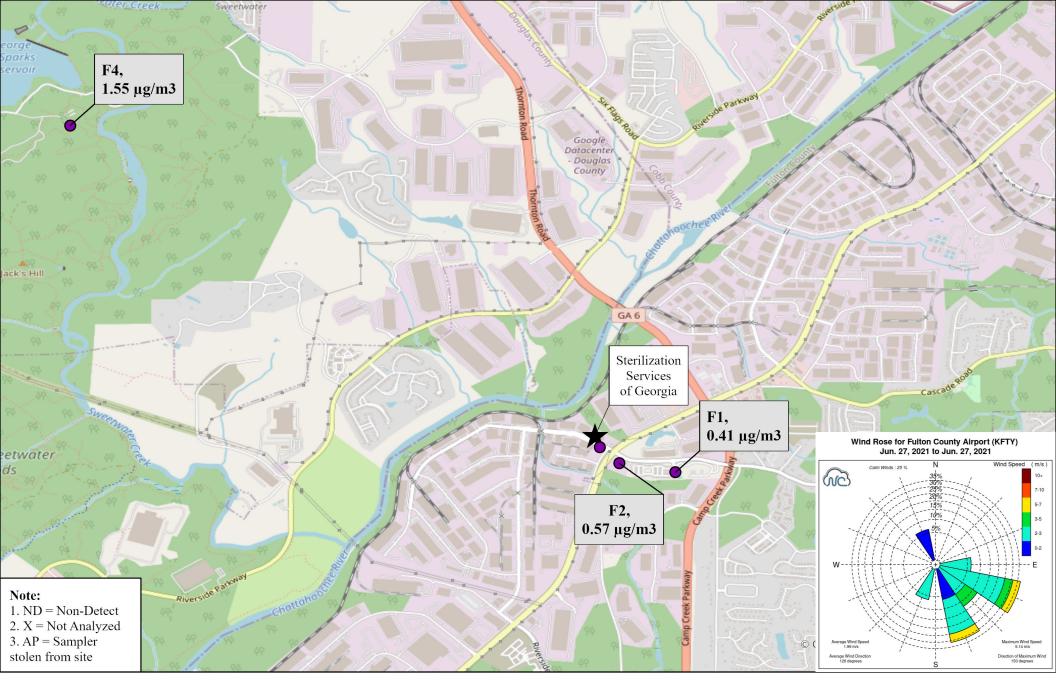
Site ID, Concentration (µg/m3)

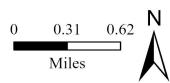
Ethylene Oxide Sampling Fulton County, GA

June 15, 2021

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







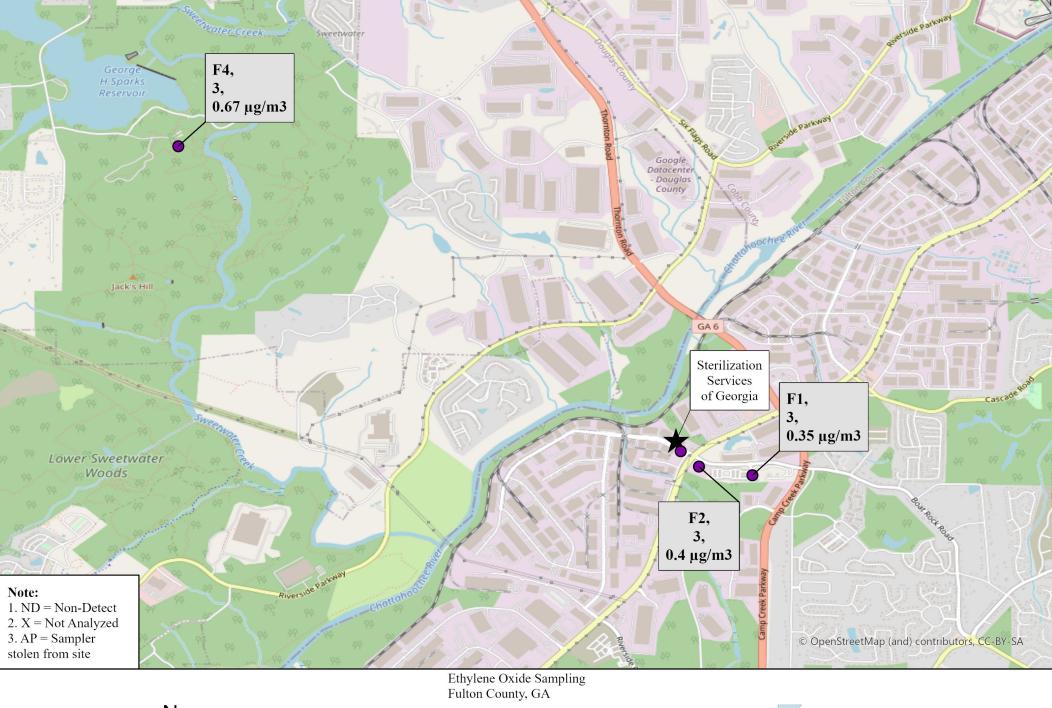
Site ID, Concentration (µg/m3)

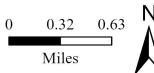
Ethylene Oxide Sampling Fulton County, GA

June 27, 2021

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







Site ID, Number of Samples, Concentration (μg/m3) June 2021 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

