

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

September 1, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Fulton April 10,2021 – April 28, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of April 10, 2021 – April 28,2021 in the south Fulton area to characterize the EtO concentrations. The samples were sent to Eastern Research Group (ERG) for analysis. Qualifier code "LK" was given by ERG to indicate that the reported value for identified analyte may be biased high. 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. Null code "BI" was given indicating sample was lost or damaged in transit. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m³)
F1	04/10/2021		0.12
F1	04/16/2021		0.07
F1	04/22/2021		BI
F1	04/28/2021	2	0.52
F2	04/10/2021	2, LK	0.52
F2	04/16/2021	2	0.26
F2	04/22/2021		0.18
F2	04/28/2021	2	0.42
F2 QA	04/22/2021	2	0.19
F4	04/10/2021		0.70
F4	04/16/2021		0.10
F4	04/22/2021	2	0.09
F4	04/28/2021		0.40

If you have any questions, please let me know.

DGO/do



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

June 09, 2021

Ms. Jaime Gore U.S. Environmental Protection Agency, Region 4 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 04/22/21 12:53 through 05/17/21 09:50.

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: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: Fulton

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	Received
F1	1042216-03	Air	04/10/21 23:59	04/22/21 12:53
F2	1042216-04	Air	04/10/21 23:59	04/22/21 12:53
F4	1042216-05	Air	04/10/21 23:59	04/22/21 12:53
F1	1042934-01	Air	04/16/21 23:59	04/29/21 11:40
F2	1042934-02	Air	04/16/21 23:59	04/29/21 11:40
F4	1042934-03	Air	04/16/21 23:59	04/29/21 11:40
F2	1043023-01	Air	04/22/21 23:59	04/30/21 12:26
F2-QA	1050322-02	Air	04/22/21 23:59	04/30/21 11:28
F4	1050322-03	Air	04/22/21 23:59	04/30/21 11:28
Fulton FB	1050524-01	Air	04/27/21 23:59	05/05/21 11:06
F1	1051247-01	Air	04/28/21 23:59	05/12/21 13:36
F4	1051247-02	Air	04/28/21 23:59	05/12/21 13:36
F2	1051721-01	Air	04/28/21 23:59	05/17/21 09:50



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F1

Comments:

Analyte

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 5.50" Hg

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: **Fulton**

Lab ID: 1042216-03 Sampled: 04/10/21 23:59 **Canister #:** 19287 **Received:** 04/22/21 12:53 **Analyzed:** 04/28/21 23:46

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

Ethylene oxide

0.0663 0.12

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: F2

Comments:

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 8.00" Hg

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: **Fulton**

Lab ID: 1042216-04 Sampled: 04/10/21 23:59 Canister #: AZ52 **Received:** 04/22/21 12:53 **Analyzed:** 04/29/21 00:47

Air Toxics by EPA Compendium Method TO-15

MDL Results **Analyte** ppbv ug/m³ <u>Flag</u> ppbv LK Ethylene oxide 0.290 0.52 0.0261



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: 6.00" Hg

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: **Fulton**

Lab ID: 1042216-05 Sampled: 04/10/21 23:59 Canister #: SAT042 **Received:** 04/22/21 12:53 **Analyzed:** 04/29/21 01:48

Air Toxics by EPA Compendium Method TO-15

MDL **Results** ppbv ug/m³ <u>Flag</u> ppbv 0.389 0.70 0.0261



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: 4.50" Hg

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE:

Fulton

Sampled: 04/16/21 23:59 Received: 04/29/21 11:40

Analyzed: 05/12/21 06:44

Air Toxics by EPA Compendium Method TO-15

1042934-01

Results

MDL <u>Flag</u>

Canister #: 18821

ppbv ug/m³

Lab ID:

Analyte Ethylene oxide

Comments:

0.0376

0.07

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: 7.00" Hg

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: **Fulton**

Sampled: 04/16/21 23:59

Analyzed: 05/12/21 07:45

Received: 04/29/21 11:40

Air Toxics by EPA Compendium Method TO-15

1042934-02

Results

<u>Flag</u>

Canister #: 18882

Lab ID:

MDL

Analyte Ethylene oxide

Comments:

ppbv ug/m³ 0.142

0.26

ppbv 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F4

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 5.00" Hg

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: **Fulton**

Lab ID: 1042934-03 Sampled: 04/16/21 23:59 **Canister #: 2527** Received: 04/29/21 11:40

Analyzed: 05/12/21 18:24

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

MDL

Analyte Ethylene oxide

Comments:

0.0536

0.10

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: F2

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: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: **Fulton**

Sampled: 04/22/21 23:59

Canister #: A21034 Received: 04/30/21 12:26

Analyzed: 05/13/21 21:48

Air Toxics by EPA Compendium Method TO-15

1043023-01

Results ppbv ug/m³

0.18

0.0991

Lab ID:

<u>Flag</u>

ppbv 0.0261

<u>MDL</u>



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

Pressure @ Receipt: 0.20" Hg

Description: F2-QA

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: **Fulton**

Lab ID: 1050322-02 Sampled: 04/22/21 23:59 **Canister #:** 114366 **Received:** 04/30/21 11:28 **Analyzed:** 05/13/21 23:50

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

MDL ppbv

Analyte Ethylene oxide

Comments:



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F4

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 0.10" Hg

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

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: **Fulton**

Sampled: 04/22/21 23:59 **Received:** 04/30/21 11:28

Analyzed: 05/14/21 01:52

Air Toxics by EPA Compendium Method TO-15

1050322-03

Results ppbv ug/m³

<u>Flag</u>

Canister #: 33327

Lab ID:

MDL

Analyte Ethylene oxide

Comments:

0.0522

0.09

ppbv 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

Description: Fulton FB

Comments: Field Blank

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

Pressure @ Receipt: 30.0" Hg

Lab ID: 1050524-01

Canister #: SAT029

FILE #: 4222.00

AQS SITE CODE:

SITE CODE:

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

Fulton

Sampled: 04/27/21 23:59 Received: 05/05/21 11:06

Analyzed: 05/20/21 20:02

Air Toxics by EPA Compendium Method TO-15

Results

<u>Flag</u> U

Analyte Ethylene oxide

ppbv ug/m³ 0.0236 0.04

MDL ppbv 0.0261



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ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: Fulton

 Description:
 F1
 Lab ID:
 1051247-01
 Sampled: 04/28/21 23:59

 Pressure @ Receipt:
 7.00" Hg
 Canister #:
 A21052
 Received:
 05/12/21 13:36

 Comments:
 Analyzed:
 05/20/21 11:01

Air Toxics by EPA Compendium Method TO-15



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

0.222

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: **Fulton**

Lab ID: 1051247-02 Sampled: 04/28/21 23:59 **Canister #: 2240 Received:** 05/12/21 13:36 **Analyzed:** 05/20/21 12:01

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

0.40

<u>Flag</u>

MDL ppbv 0.0261

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U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F2

Comments:

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 8.00" Hg

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: **Fulton**

Lab ID: 1051721-01 Sampled: 04/28/21 23:59 **Canister #:** A22328 Received: 05/17/21 09:50 **Analyzed:** 05/20/21 22:05

Air Toxics by EPA Compendium Method TO-15

MDL **Results** ppbv ug/m³ **Analyte** <u>Flag</u> ppbv Ethylene oxide 0.232 0.42 0.0261



U.S. Environmental Protection Agency, Region 4

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Atlanta, GA 30354

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: Fulton

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium	Method TO-15	- Quality Con	trol			
Batch B1D2808 - Summa Canister F	Prep					
Blank (B1D2808-BLK1)			Prepared & Analyzed	d: 04/28/21		
Ethylene oxide	ND	ppbv				U
Batch B1E1108 - Summa Canister F	Prep					
Blank (B1E1108-BLK1)			Prepared & Analyzed	d: 05/11/21		
Ethylene oxide	ND	ppbv				U
Batch B1E1206 - Summa Canister F	Prep					
Blank (B1E1206-BLK1)			Prepared & Analyzed	d: 05/12/21		
Ethylene oxide	ND	ppbv				U
Batch B1E1307 - Summa Canister F	Prep					
Blank (B1E1307-BLK1)			Prepared & Analyzed	d: 05/13/21		
Ethylene oxide	ND	ppbv				U
Duplicate (B1E1307-DUP3)	Source	: 1043023-01	Prepared: 04/22/21	Analyzed: 05/13/21		
Ethylene oxide	0.111	ppbv	0.10	11.0	25	
Duplicate (B1E1307-DUP4)	Source	: 1050322-02	Prepared: 04/22/21	Analyzed: 05/14/21		
Ethylene oxide	0.102	ppbv	0.11	3.83	25	
Batch B1E1908 - Summa Canister F	Prep					
Blank (B1E1908-BLK1)		Prepared & Analyzed: 05/19/21				
Ethylene oxide	ND	ppbv				U
Batch B1E2006 - Summa Canister F	Prep					
Blank (B1E2006-BLK1)			Prepared & Analyzed	d: 05/20/21		
Ethylene oxide	ND	ppbv	·			U

Eastern Research Group

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FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: Fulton

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendiun	n Method TO-15	- Quality Cor	ntrol		
Sequence 2104053					
Calibration Check (2104053-CC)	V1)		Prepared & Analyze	ed: 04/27/21	
Ethylene oxide	3.00	ppbv	24.3	30.00	
Sequence 2104057					
Calibration Check (2104057-CC	V1)		Prepared & Analyze	ed: 04/28/21	
Ethylene oxide	2.75	ppbv	13.7	30.00	
Sequence 2105022					
Calibration Check (2105022-CC	V1)		Prepared & Analyze	ed: 05/11/21	
Ethylene oxide	2.09	ppbv	-13.4	30.00	
Sequence 2105025					
Calibration Check (2105025-CC	V1)		Prepared & Analyze	ed: 05/12/21	
Ethylene oxide	2.09	ppbv	-13.7	30.00	
Sequence 2105029					
Calibration Check (2105029-CC	V1)		Prepared & Analyze	ed: 05/13/21	
Ethylene oxide	2.07	ppbv	-14.3	30.00	
Sequence 2105048					
Calibration Check (2105048-CC	V1)		Prepared & Analyze	ed: 05/19/21	
Ethylene oxide	2.16	ppbv	-10.7	30.00	
Sequence 2105053					
Calibration Check (2105053-CC	V1)		Prepared & Analyze	ed: 05/20/21	
Ethylene oxide	2.17	ppbv	-10.2	30.00	

Eastern Research Group

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ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 06/09/21 12:16

SUBMITTED: 04/22/21 to 05/17/21

AQS SITE CODE:

SITE CODE: Fulton

Notes and Definitions

U Under Detection Limit
ND Analyte NOT DETECTED

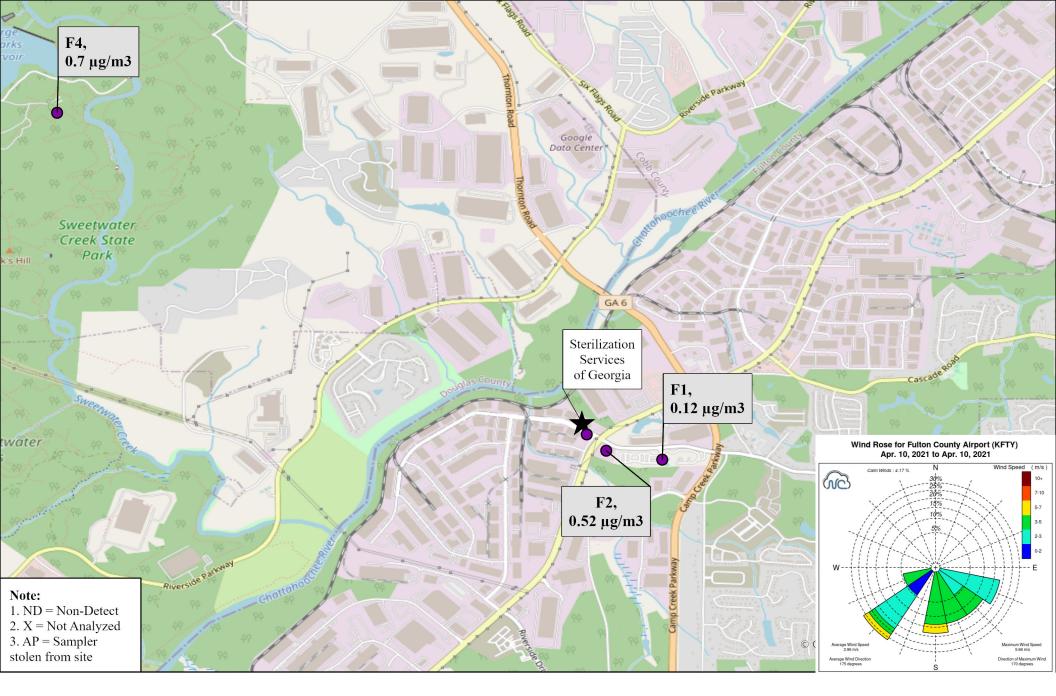
NR Not Reported

MDL Method Detection Limit

RPD Relative 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.

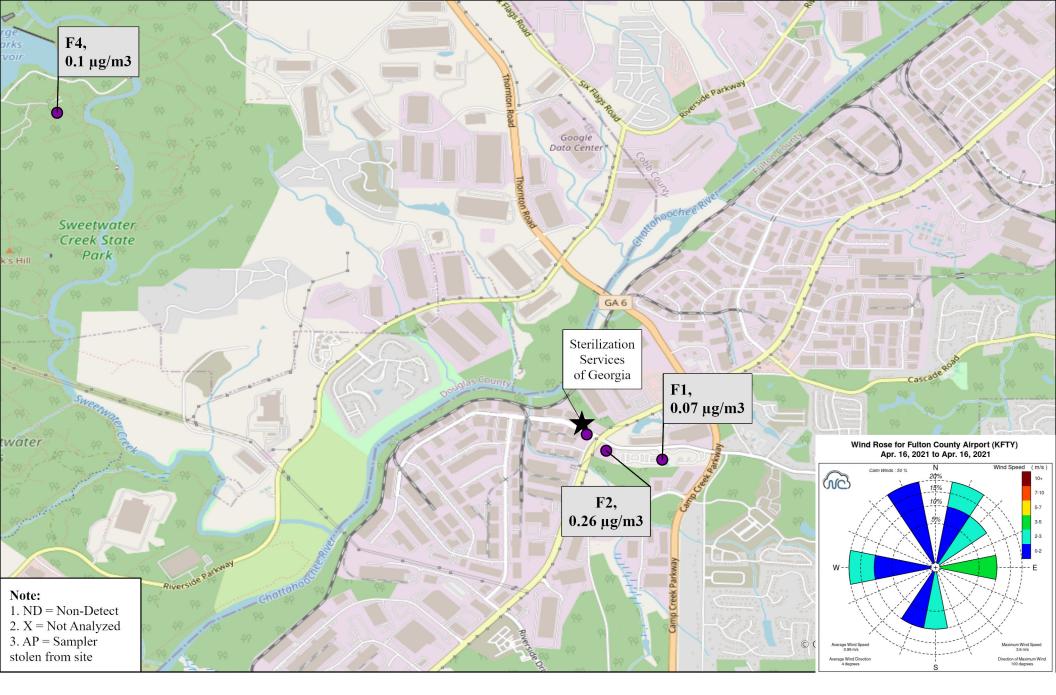




04/10/2021

Sampled By: Georgia Environmental Protection Division



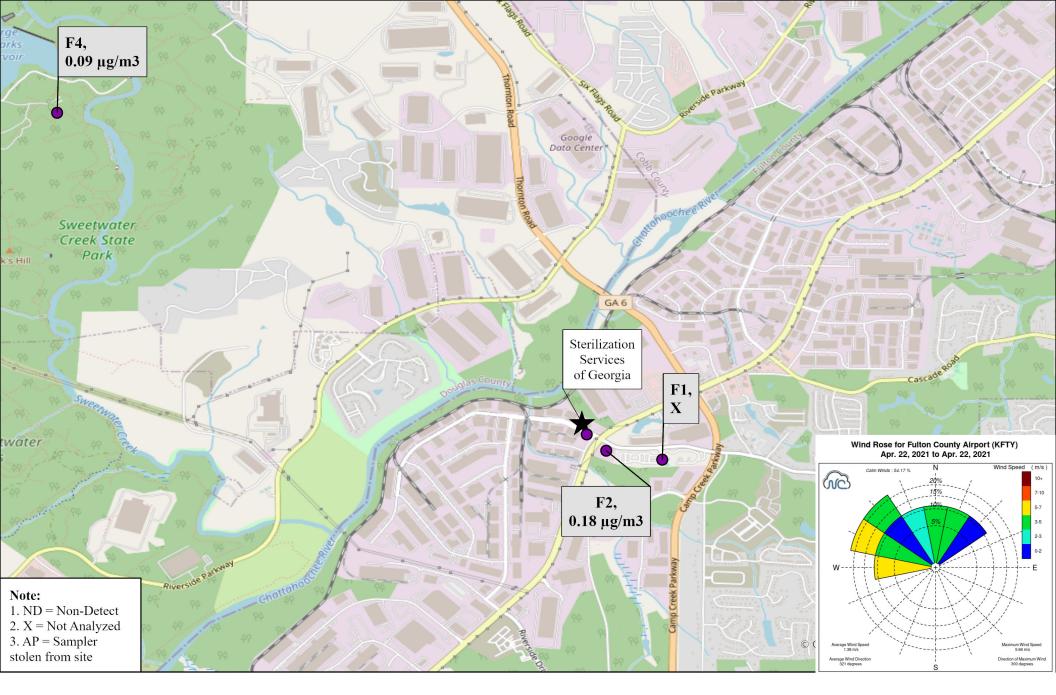




04/16/2021

Sampled By: Georgia Environmental Protection Division



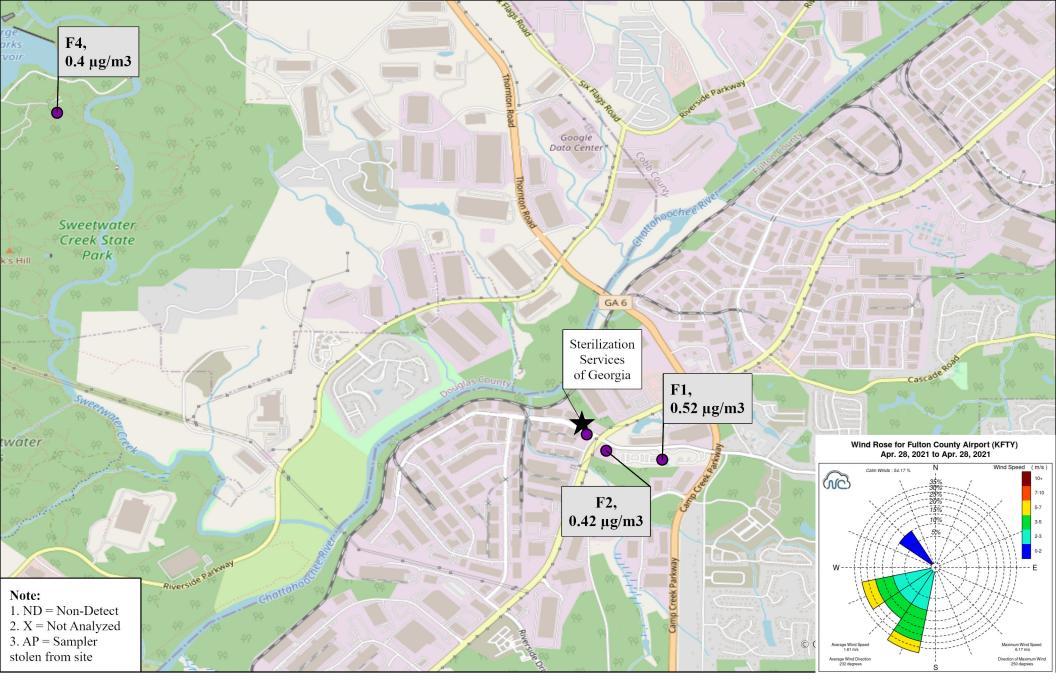




04/22/2021

Sampled By: Georgia Environmental Protection Division



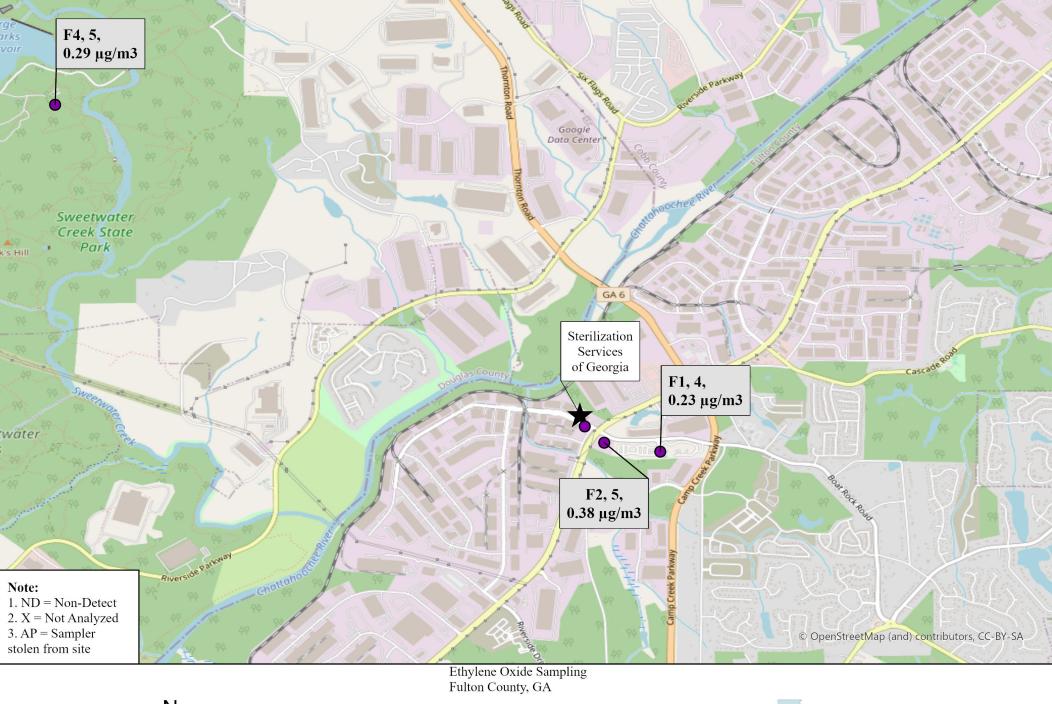


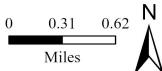


04/28/2021

Sampled By: Georgia Environmental Protection Division







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

April 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

