



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 30, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

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

Samples of Ethylene Oxide (EtO) were collected during the period of May 4, 2021 – May 10, 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. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
F1	05/04/2021	2	0.18
F1	05/10/2021	2	0.46
F2	05/04/2021		0.27
F2	05/10/2021	2	1.08
F4	05/04/2021		0.07
F4	05/10/2021		0.10

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: 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 05/19/21 14:00.

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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CERTIFICATE OF ANALYSIS

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 13:28
SUBMITTED: 05/19/21
AQS SITE CODE:
SITE CODE: Fulton

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
F1	1051941-01	Air	05/04/21 23:59	05/19/21 14:00
F2	1051941-02	Air	05/04/21 23:59	05/19/21 14:00
F4	1051941-03	Air	05/04/21 23:59	05/19/21 14:00
F1	1051941-04	Air	05/10/21 23:59	05/19/21 14:00
F2	1051941-05	Air	05/10/21 23:59	05/19/21 14:00
F4	1051941-06	Air	05/10/21 23:59	05/19/21 14:00



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FILE #: 4222.00
 REPORTED: 07/09/21 13:28
 SUBMITTED: 05/19/21
 AQS SITE CODE:
 SITE CODE: Fulton

Description: F1	Lab ID: 1051941-01	Sampled: 05/04/21 23:59
Pressure @ Receipt: 7.50" Hg	Canister #: A21058	Received: 05/19/21 14:00
Comments:		Analyzed: 06/03/21 18:38

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0998	0.18		0.0261



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FILE #: 4222.00
 REPORTED: 07/09/21 13:28
 SUBMITTED: 05/19/21
 AQS SITE CODE:
 SITE CODE: Fulton

Description: F2	Lab ID: 1051941-02	Sampled: 05/04/21 23:59
Pressure @ Receipt: 6.50" Hg	Canister #: 114348	Received: 05/19/21 14:00
Comments:		Analyzed: 06/03/21 19:38

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.151	0.27		0.0261



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REPORTED: 07/09/21 13:28

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F4

Lab ID: 1051941-03

Sampled: 05/04/21 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: 19278

Received: 05/19/21 14:00

Comments:

Analyzed: 06/03/21 20:39

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0385	0.07		0.0261



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FILE #: 4222.00

REPORTED: 07/09/21 13:28

SUBMITTED: 05/19/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 1051941-04

Sampled: 05/10/21 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 18876

Received: 05/19/21 14:00

Comments:

Analyzed: 06/07/21 21:55

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.252	0.46		0.0261



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FILE #: 4222.00
 REPORTED: 07/09/21 13:28
 SUBMITTED: 05/19/21
 AQS SITE CODE:
 SITE CODE: Fulton

Description: F4	Lab ID: 1051941-06	Sampled: 05/10/21 23:59
Pressure @ Receipt: 6.00" Hg	Canister #: 18884	Received: 05/19/21 14:00
Comments:		Analyzed: 06/07/21 23:57

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0546	0.10		0.0261



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FILE #: 4222.00
REPORTED: 07/09/21 13:28
SUBMITTED: 05/19/21
AQS SITE CODE:
SITE CODE: Fulton

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Batch B1F0212 - Summa Canister Prep

Blank (B1F0212-BLK1)

Prepared: 06/02/21 Analyzed: 06/03/21

Ethylene oxide	ND	ppbv				U
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Batch B1F0708 - Summa Canister Prep

Blank (B1F0708-BLK1)

Prepared & Analyzed: 06/07/21

Ethylene oxide	ND	ppbv				U
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FILE #: 4222.00
REPORTED: 07/09/21 13:28
SUBMITTED: 05/19/21
AQS SITE CODE:
SITE CODE: Fulton

Analyte	Result	Units	% Difference	Limit (%)	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 2106009

Calibration Check (2106009-CCV1)

Prepared & Analyzed: 06/03/21

Ethylene oxide	2.13	ppbv	-14.9	30.00	
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Sequence 2106019

Calibration Check (2106019-CCV1)

Prepared & Analyzed: 06/07/21

Ethylene oxide	2.30	ppbv	-8.1	30.00	
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CERTIFICATE OF ANALYSIS

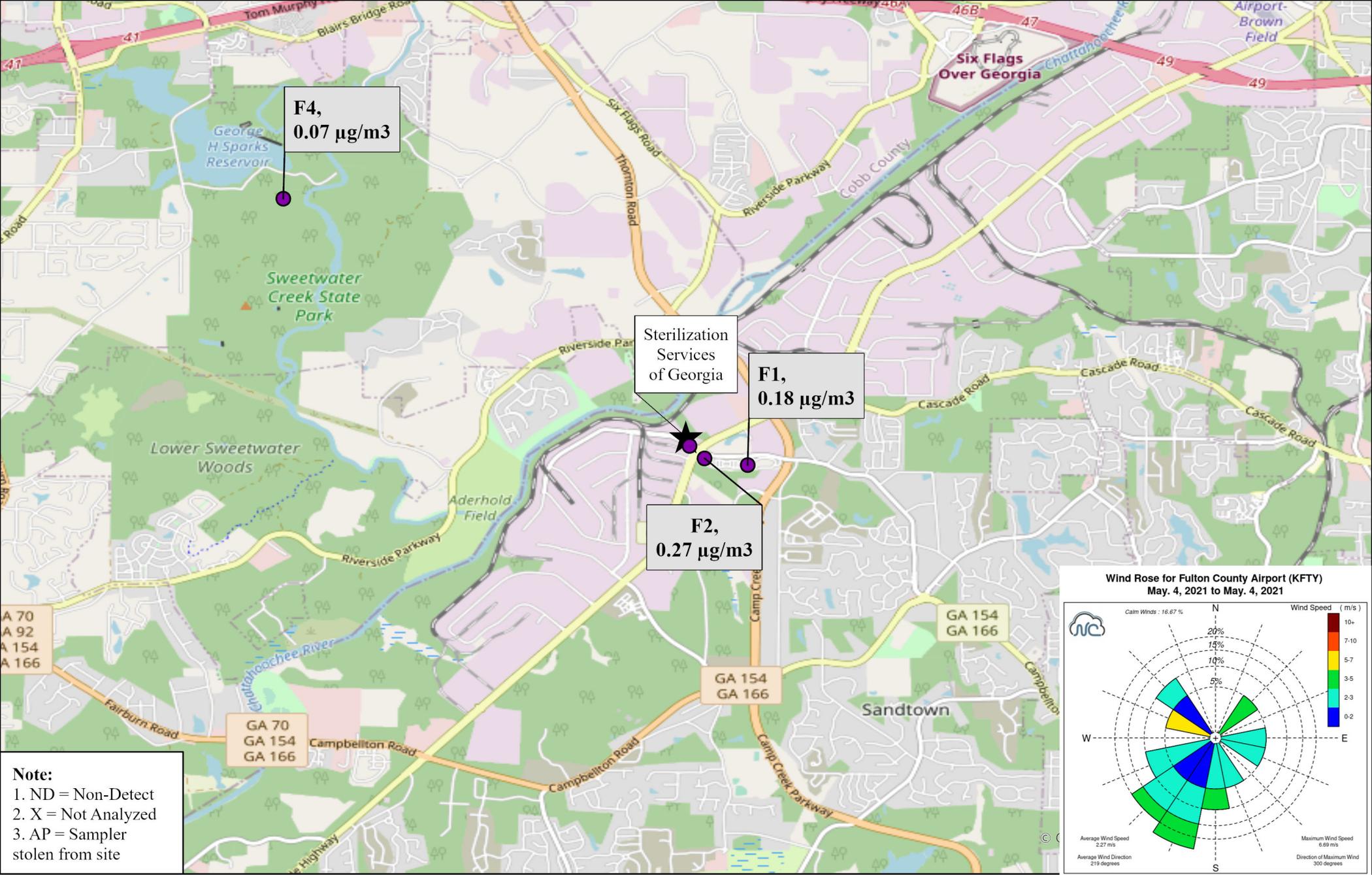
U.S. Environmental Protection Agency, Region 4
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ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
REPORTED: 07/09/21 13:28
SUBMITTED: 05/19/21
AQS SITE CODE:
SITE CODE: Fulton

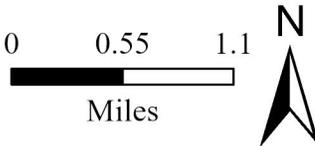
Notes and Definitions

U Under Detection Limit
ND Analyte NOT DETECTED
NR Not Reported
MDL Method Detection Limit
RPD Relative Percent Difference

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.



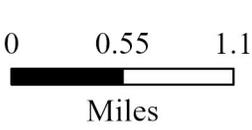
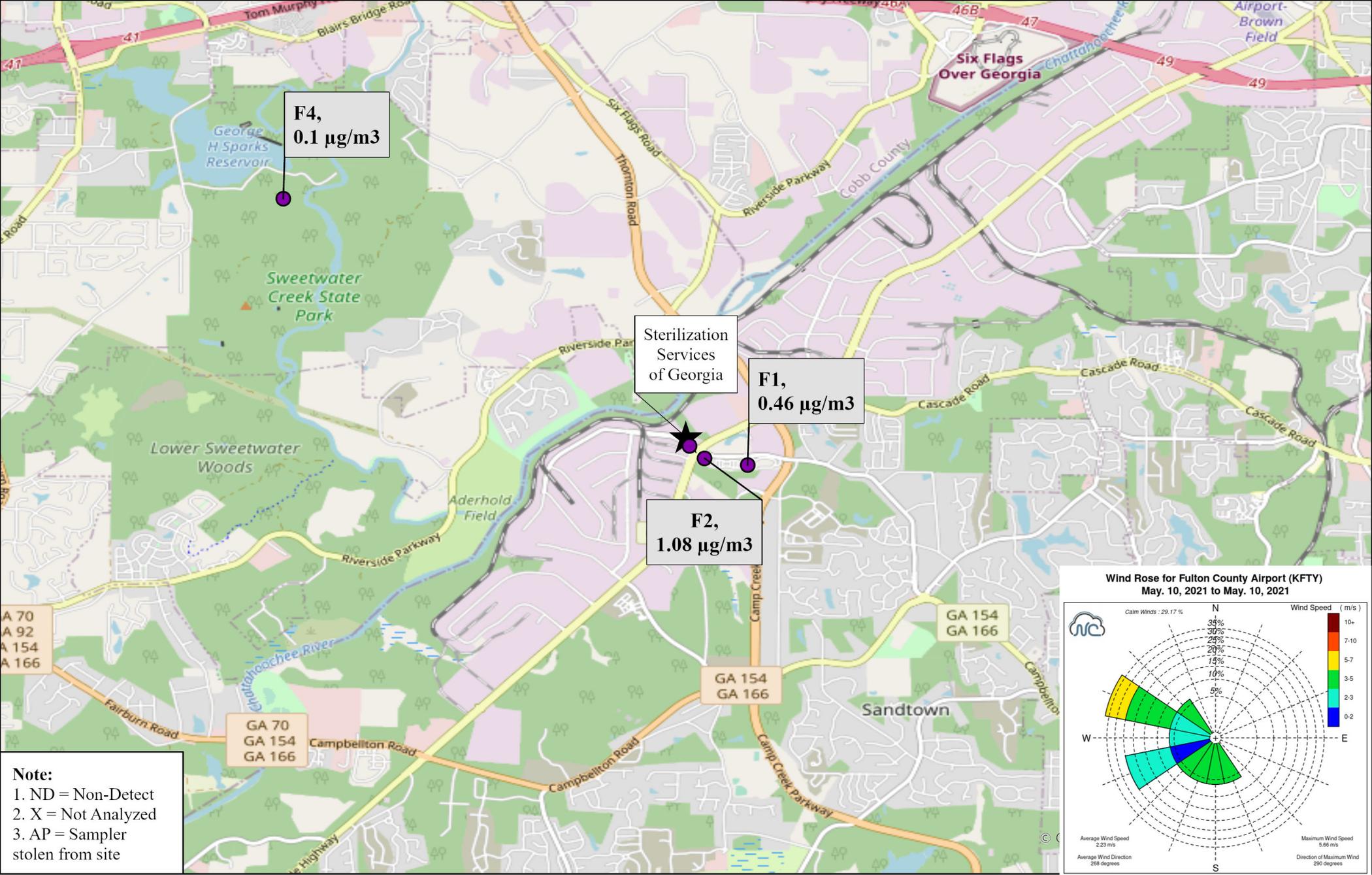
Note:
 1. ND = Non-Detect
 2. X = Not Analyzed
 3. AP = Sampler stolen from site



Site ID, Concentration (µg/m³)

Ethylene Oxide Sampling
 Fulton County, GA

05/04/2021
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



Site ID, Concentration (µg/m³)

Ethylene Oxide Sampling
 Fulton County, GA

05/10/2021
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group