

EPD Director's Office

2 Martin Luther King, Jr. Drive
Suite 1456, East Tower
Atlanta, Georgia 30334
404-656-4713

May 14, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Fulton January 22, 2020 – February 27, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of January 22, 2020 - February 27, 2020 in the south Fulton area to characterize the EtO concentrations. The sample for F1 on January 16, 2020 was reported on the last data set and is included here to be consistent with the attached lab report. Sampling began at the F2 location on January 28, 2020. 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. Code AL is applied to the sample to indicate that it is voided by operator.

Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
F1	01/16/2020		0.17
F1	01/22/2020		0.29
F1	01/28/2020		0.82
F1	02/03/2020		0.35
F1	02/09/2020	2	0.44
F1	02/15/2020		0.39
F1	02/21/2020		0.64
F1	02/27/2020		AL
F2	01/28/2020		2.87
F2	02/03/2020		0.56
F2	02/09/2020	2	0.38
F2	02/15/2020		1.13
F2	02/21/2020	2	2.8
F2	02/27/2020	2	1.03

If you have any questions, please let me know.

DGO/do



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

March 24, 2020

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 01/23/20 12:33 through 03/05/20 13:41.

The test results in this report are in compliance with NELAC accreditation requirements for the certified parameters. 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: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

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	0012318-01	Air	01/16/20 23:59	01/23/20 12:33
F1	0013007-01	Air	01/22/20 23:59	01/30/20 10:47
F1	0020526-01	Air	01/28/20 23:59	02/05/20 12:04
F2	0020526-02	Air	01/28/20 23:59	02/05/20 12:04
F1	0021215-01	Air	02/03/20 23:59	02/12/20 11:03
F2	0021215-02	Air	02/03/20 23:59	02/12/20 11:03
F2	0021405-01	Air	02/09/20 23:59	02/14/20 11:35
F1	0021824-01	Air	02/09/20 23:59	02/18/20 15:14
F1	0022613-01	Air	02/15/20 23:59	02/26/20 11:09
F2	0022613-02	Air	02/15/20 23:59	02/26/20 11:09
F1	0030234-01	Air	02/21/20 23:59	03/02/20 13:18
F2	0030234-02	Air	02/21/20 23:59	03/02/20 13:18
Fulton FB	0030234-03	Air	02/21/20 23:59	03/02/20 13:18
F1	0030537-01	Air	02/27/20 23:59	03/05/20 13:41

F1 F2 site value; F1 was void sample

dgo



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REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 0012318-01

Sampled: 01/16/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 18884

Received: 01/23/20 12:33

Comments:

Analyzed: 01/27/20 19:22

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	0.0961	0.17		0.0250



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REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 0013007-01

Sampled: 01/22/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 5126

Received: 01/30/20 10:47

Comments:

Analyzed: 02/19/20 18:29

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	0.163	0.29		0.0250



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REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 0020526-01

Sampled: 01/28/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 5125

Received: 02/05/20 12:04

Comments:

Analyzed: 02/22/20 06:25

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	0.452	0.82		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F2

Lab ID: 0020526-02

Sampled: 01/28/20 23:59

Pressure @ Receipt: 0.0" Hg

Canister #: SAT002

Received: 02/05/20 12:04

Comments: Received at ambient

Analyzed: 02/22/20 07:21

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	1.59	2.87		0.0250



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REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 0021215-01

Sampled: 02/03/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: SAT087

Received: 02/12/20 11:03

Comments:

Analyzed: 02/25/20 00:46

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	0.191	0.35		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F2

Lab ID: 0021215-02

Sampled: 02/03/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 19642

Received: 02/12/20 11:03

Comments:

Analyzed: 02/25/20 01:42

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	0.310	0.56		0.0250



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REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F2

Lab ID: 0021405-01

Sampled: 02/09/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 5133

Received: 02/14/20 11:35

Comments: Received at ambient

Analyzed: 02/25/20 14:08

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	0.211	0.38		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 0021824-01

Sampled: 02/09/20 23:59

Pressure @ Receipt: 11.00" Hg

Canister #: SAT021

Received: 02/18/20 15:14

Comments:

Analyzed: 03/03/20 19:28

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	0.243	0.44		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 0022613-01

Sampled: 02/15/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: A21083

Received: 02/26/20 11:09

Comments: Received at ambient

Analyzed: 03/04/20 22:58

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	0.217	0.39		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F2

Lab ID: 0022613-02

Sampled: 02/15/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 5086

Received: 02/26/20 11:09

Comments: Received at ambient

Analyzed: 03/04/20 23:53

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	0.624	1.13		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 0030234-01

Sampled: 02/21/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: A21022

Received: 03/02/20 13:18

Comments:

Analyzed: 03/05/20 06:21

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	0.352	0.64		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: F2

Lab ID: 0030234-02

Sampled: 02/21/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 18832

Received: 03/02/20 13:18

Comments: Received at ambient

Analyzed: 03/13/20 21:48

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	1.55	2.80		0.0250



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

FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description: Fulton FB

Lab ID: 0030234-03

Sampled: 02/21/20 23:59

Pressure @ Receipt: 30.00" Hg

Canister #: A21096

Received: 03/02/20 13:18

Comments: Field Blank

Analyzed: 03/13/20 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	ND	ND	U	0.0250



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
FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Description:  canister # matches F2 site *dg* **Lab ID:** 0030537-01 **Sampled:** 02/27/20 23:59
Pressure @ Receipt: 0.00" Hg **Canister #:** 19645 **Received:** 03/05/20 13:41
Comments: Received at ambient **Analyzed:** 03/16/20 20:21

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	0.569	1.03		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

AQS SITE CODE:

SITE CODE: Fulton

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B0A2709 - Summa Canister Prep</i>						
Blank (B0A2709-BLK1)			Prepared: 01/23/20 Analyzed: 01/27/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0B1907 - Summa Canister Prep</i>						
Blank (B0B1907-BLK1)			Prepared: 02/14/20 Analyzed: 02/19/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0B2006 - Summa Canister Prep</i>						
Blank (B0B2006-BLK1)			Prepared: 02/14/20 Analyzed: 02/21/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0B2006-DUP1)			Source: 0020526-02 Prepared: 01/28/20 Analyzed: 02/22/20			
Ethylene oxide	1.58	ppbv	1.59	0.321	25	
<i>Batch B0B2408 - Summa Canister Prep</i>						
Blank (B0B2408-BLK1)			Prepared: 02/14/20 Analyzed: 02/24/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0C0310 - Summa Canister Prep</i>						
Blank (B0C0310-BLK1)			Prepared & Analyzed: 03/03/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0C0407 - Summa Canister Prep</i>						
Blank (B0C0407-BLK1)			Prepared & Analyzed: 03/04/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0C0910 - Summa Canister Prep</i>						
Blank (B0C0910-BLK1)			Prepared: 03/09/20 Analyzed: 03/13/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0C0910-DUP1)			Source: 0030234-02 Prepared: 02/21/20 Analyzed: 03/13/20			
Ethylene oxide	1.57	ppbv	1.55	1.67	25	
<i>Batch B0C1605 - Summa Canister Prep</i>						
Blank (B0C1605-BLK1)			Prepared: 03/09/20 Analyzed: 03/16/20			
Ethylene oxide	ND	ppbv				U



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FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

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 2001074

Calibration Check (2001074-CCV1)

Prepared & Analyzed: 01/27/20

Ethylene oxide	2.56	ppbv	2.4	30.00
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Sequence 2002042

Calibration Check (2002042-CCV1)

Prepared & Analyzed: 02/19/20

Ethylene oxide	2.61	ppbv	4.5	30.00
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Sequence 2002044

Calibration Check (2002044-CCV1)

Prepared: 02/20/20 Analyzed: 02/21/20

Ethylene oxide	2.66	ppbv	6.3	30.00
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Sequence 2002051

Calibration Check (2002051-CCV1)

Prepared: 02/19/20 Analyzed: 02/24/20

Ethylene oxide	2.76	ppbv	10.6	30.00
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Sequence 2003009

Calibration Check (2003009-CCV1)

Prepared & Analyzed: 03/03/20

Ethylene oxide	2.43	ppbv	-2.7	30.00
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Sequence 2003013

Calibration Check (2003013-CCV1)

Prepared & Analyzed: 03/04/20

Ethylene oxide	2.87	ppbv	14.6	30.00
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Sequence 2003022

Calibration Check (2003022-CCV1)

Prepared: 03/09/20 Analyzed: 03/13/20

Ethylene oxide	2.50	ppbv	1.0	30.00
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Sequence 2003031

Calibration Check (2003031-CCV1)

Prepared & Analyzed: 03/16/20

Ethylene oxide	2.77	ppbv	12.1	30.00
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FILE #: 4222.00

REPORTED: 03/24/20 12:36

SUBMITTED: 01/23/20 to 03/05/20

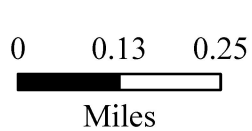
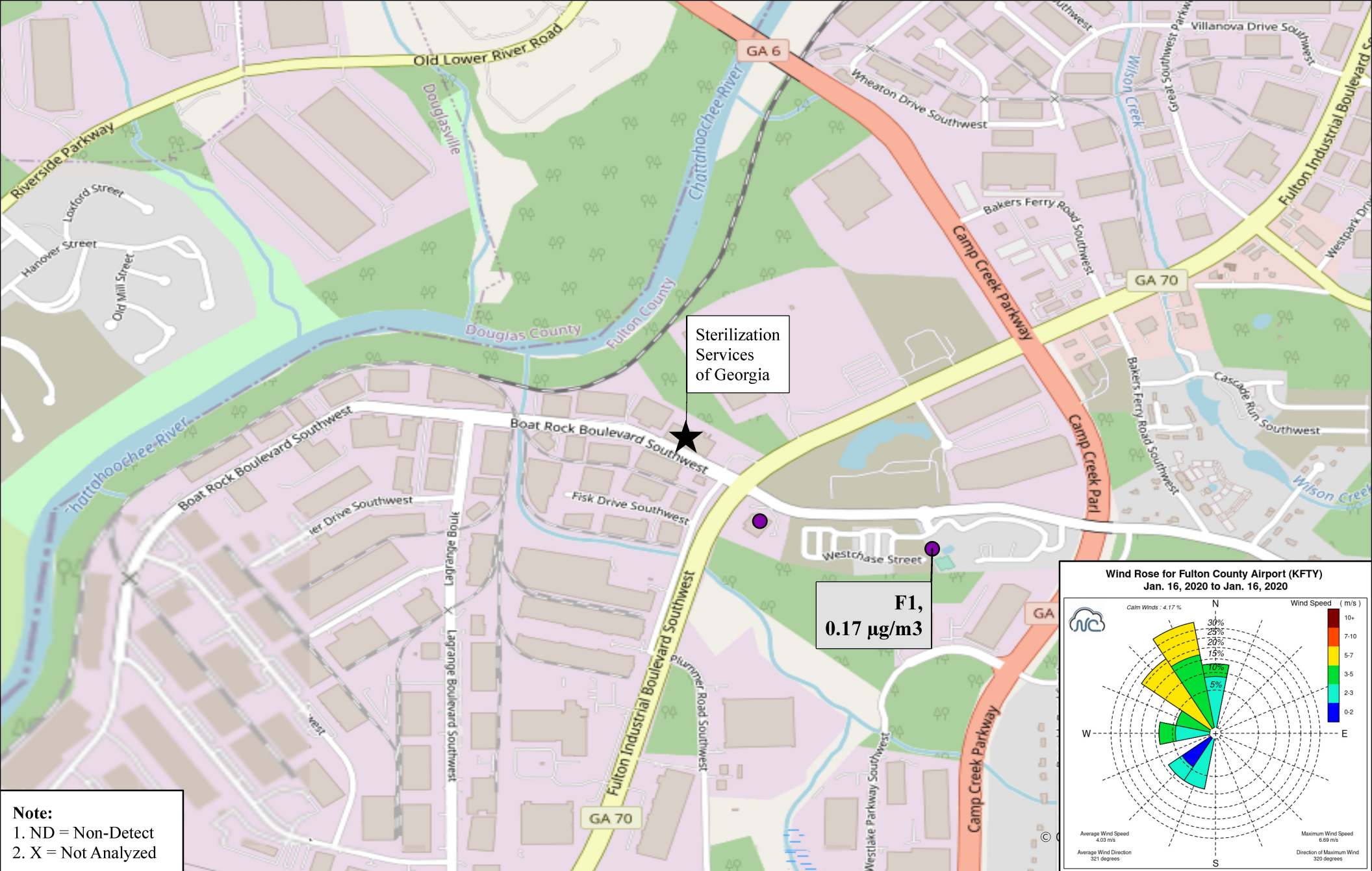
AQS SITE CODE:

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: The test results meet all requirements of NELAC; however the following analytes are not accredited: 1,2,4-trimethylbenzene, 1,2-dibromoethane, 1,2-dichloropropane, 1,3,5-trimethylbenzene, 1,3-butadiene, acetylene, acrolein, bromochloromethane, bromodichloromethane, bromoform, carbon disulfide, dibromochloromethane, dichlorodifluoromethane, dichlorotetrafluoroethane, ethyl acrylate, ethyl tert butyl ether, ethylene oxide, hexachloro-1,3-butadiene, n-octane, propylene, tert amyl methyl ether, tetrachloroethylene, trans-1,2-dichloroethylene, trichlorofluoromethane, and trichlorotrifluoroethane.



Site ID, Concentration (µg/m3)

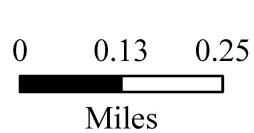
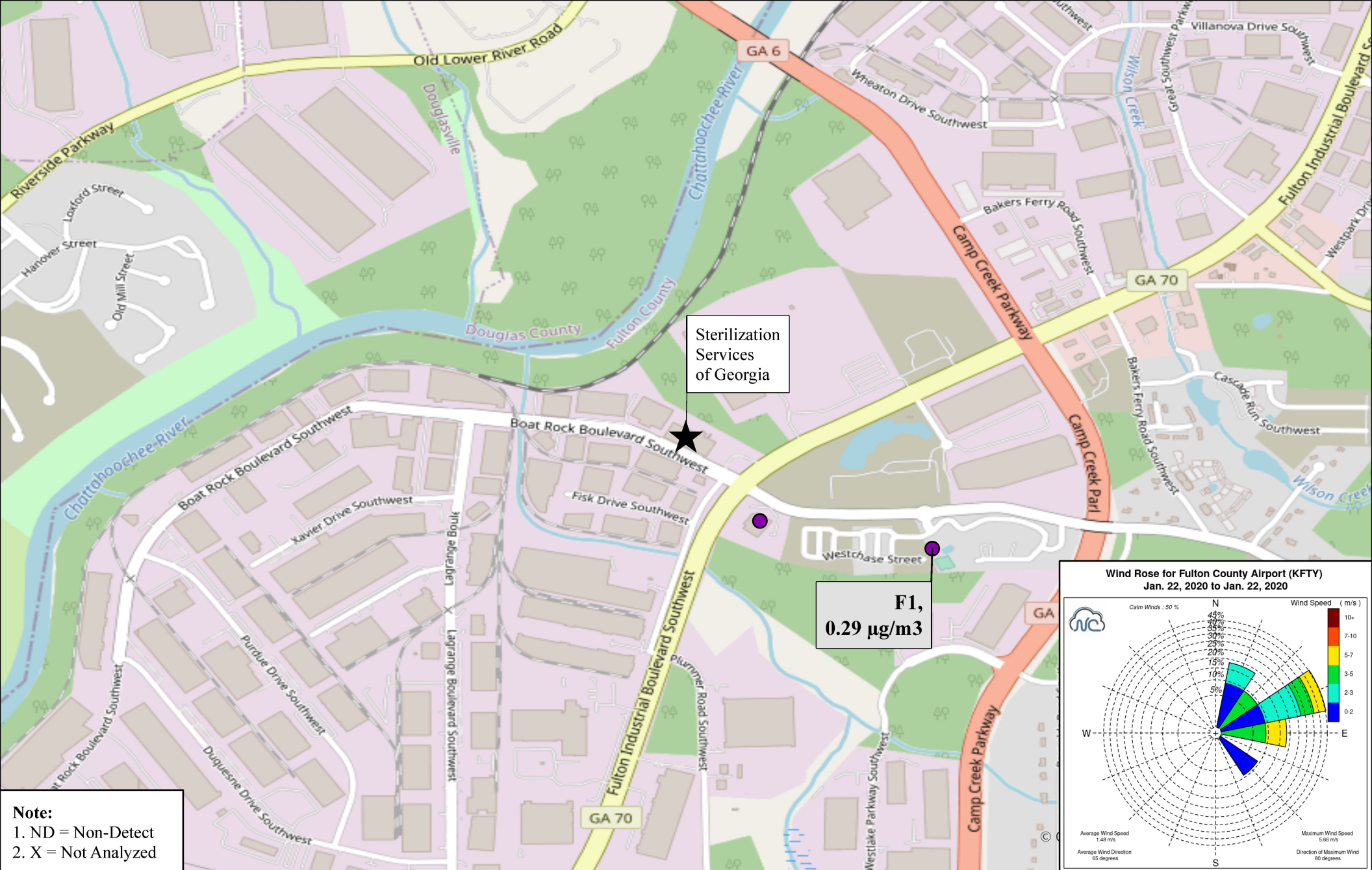
Ethylene Oxide Sampling
Fulton County, GA

01/16/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



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Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

Ethylene Oxide Sampling
Fulton County, GA

01/22/2020

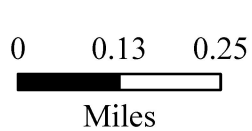
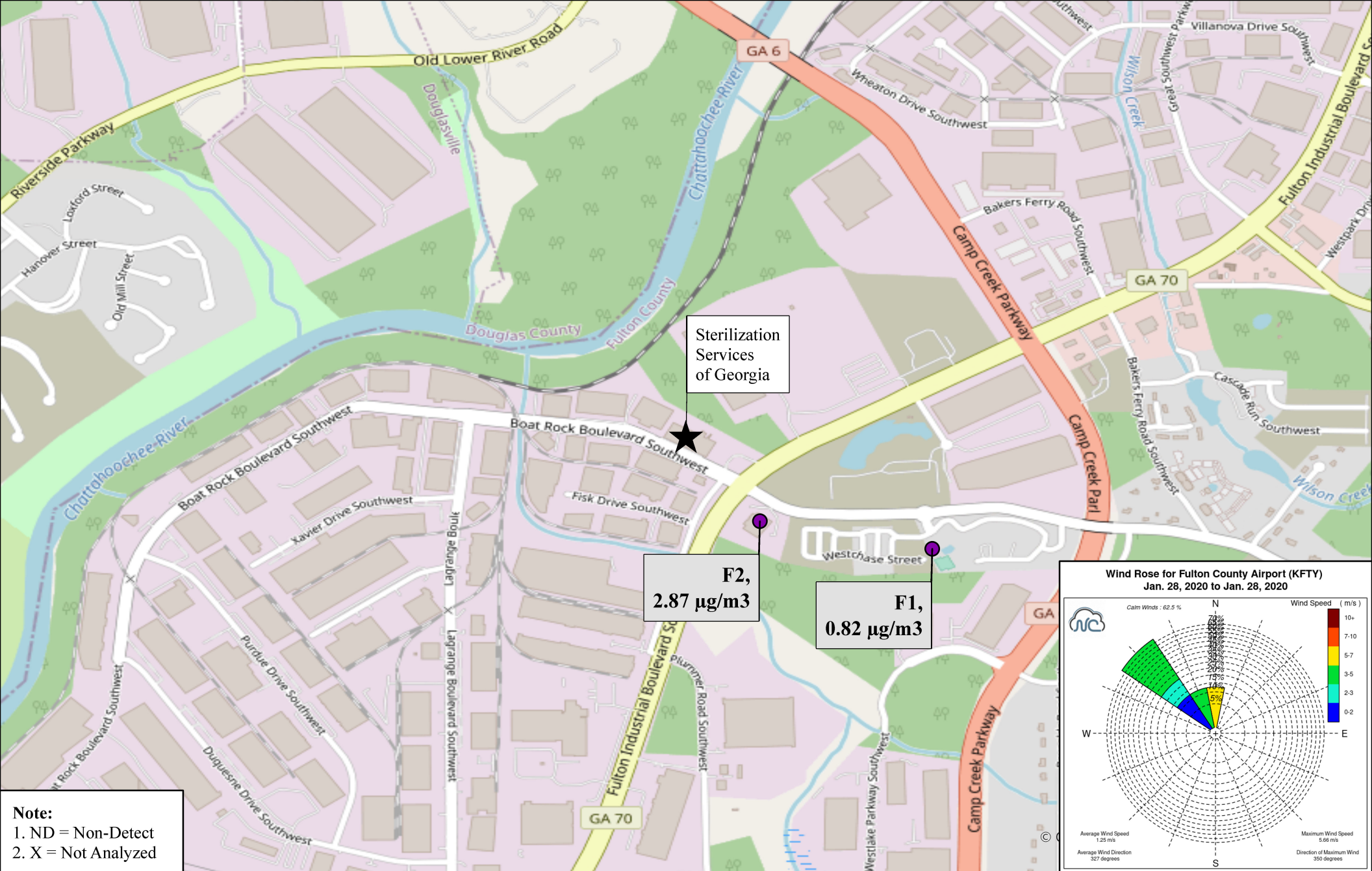
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

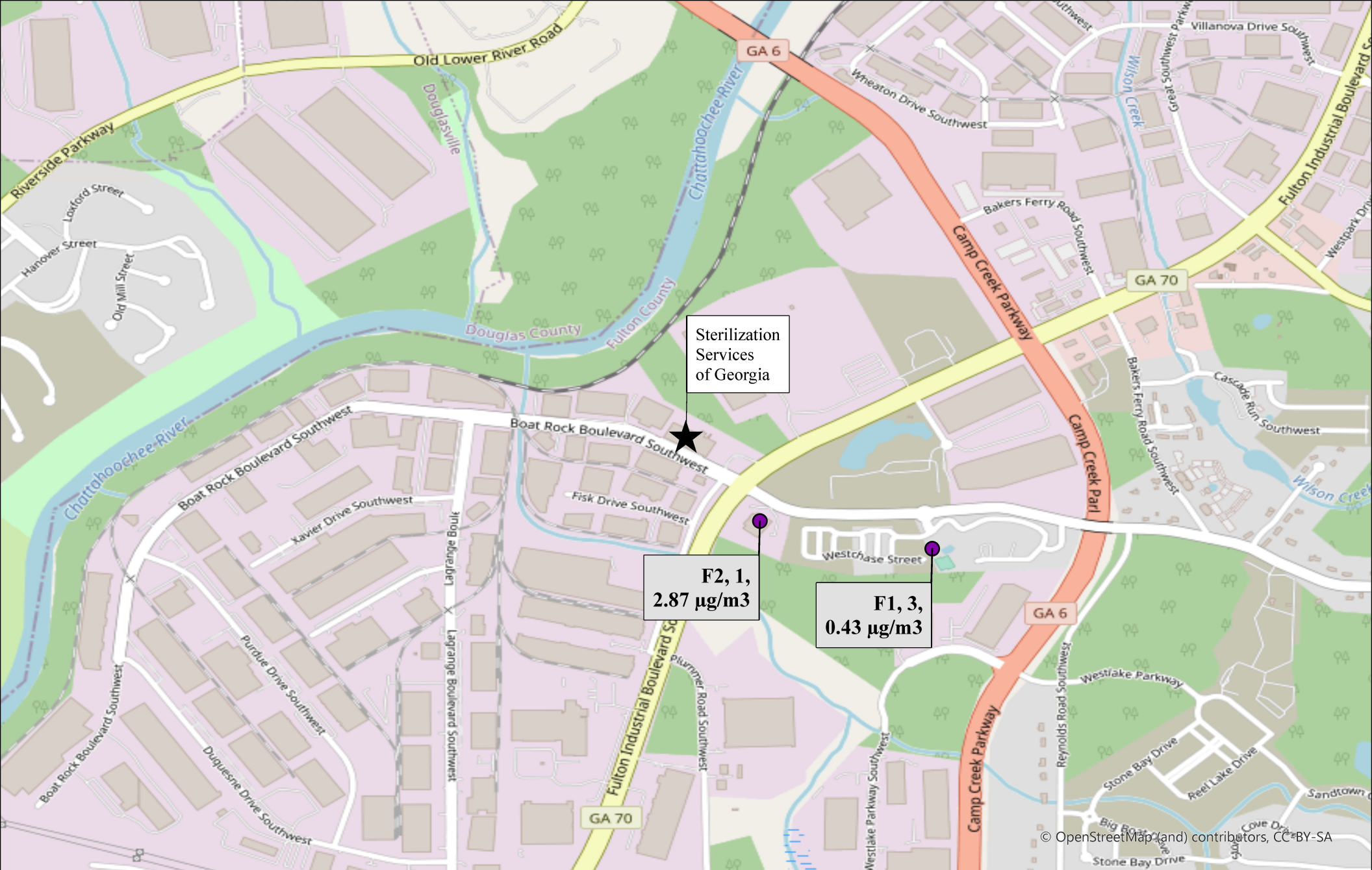
Ethylene Oxide Sampling
 Fulton County, GA

01/28/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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0 0.13 0.25
Miles



**Site ID, Number of Samples,
Concentration ($\mu\text{g}/\text{m}^3$)**

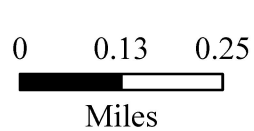
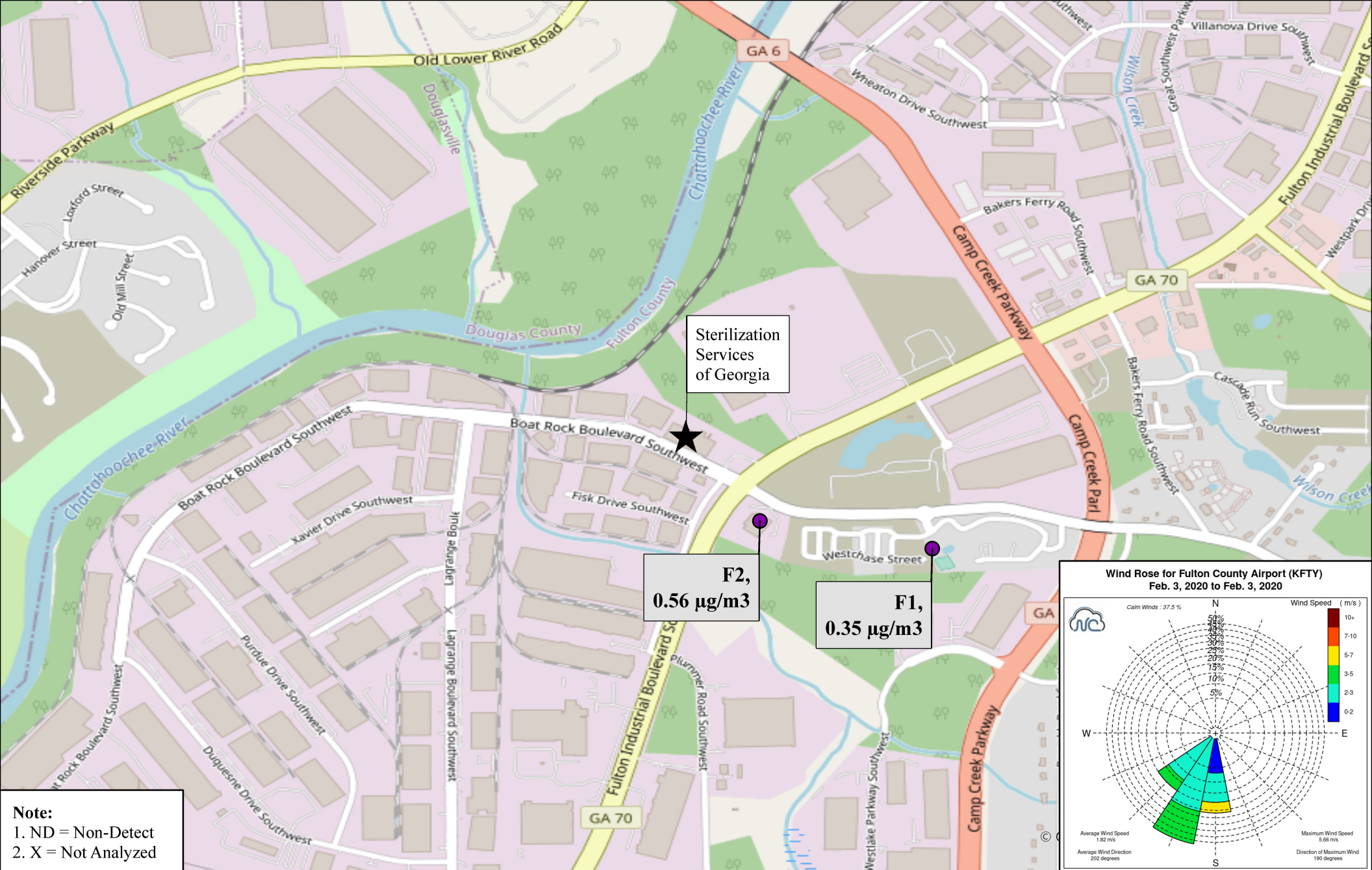
Ethylene Oxide Sampling
Fulton County, GA

January 2020 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



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Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

Ethylene Oxide Sampling
 Fulton County, GA

02/03/2020

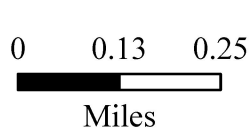
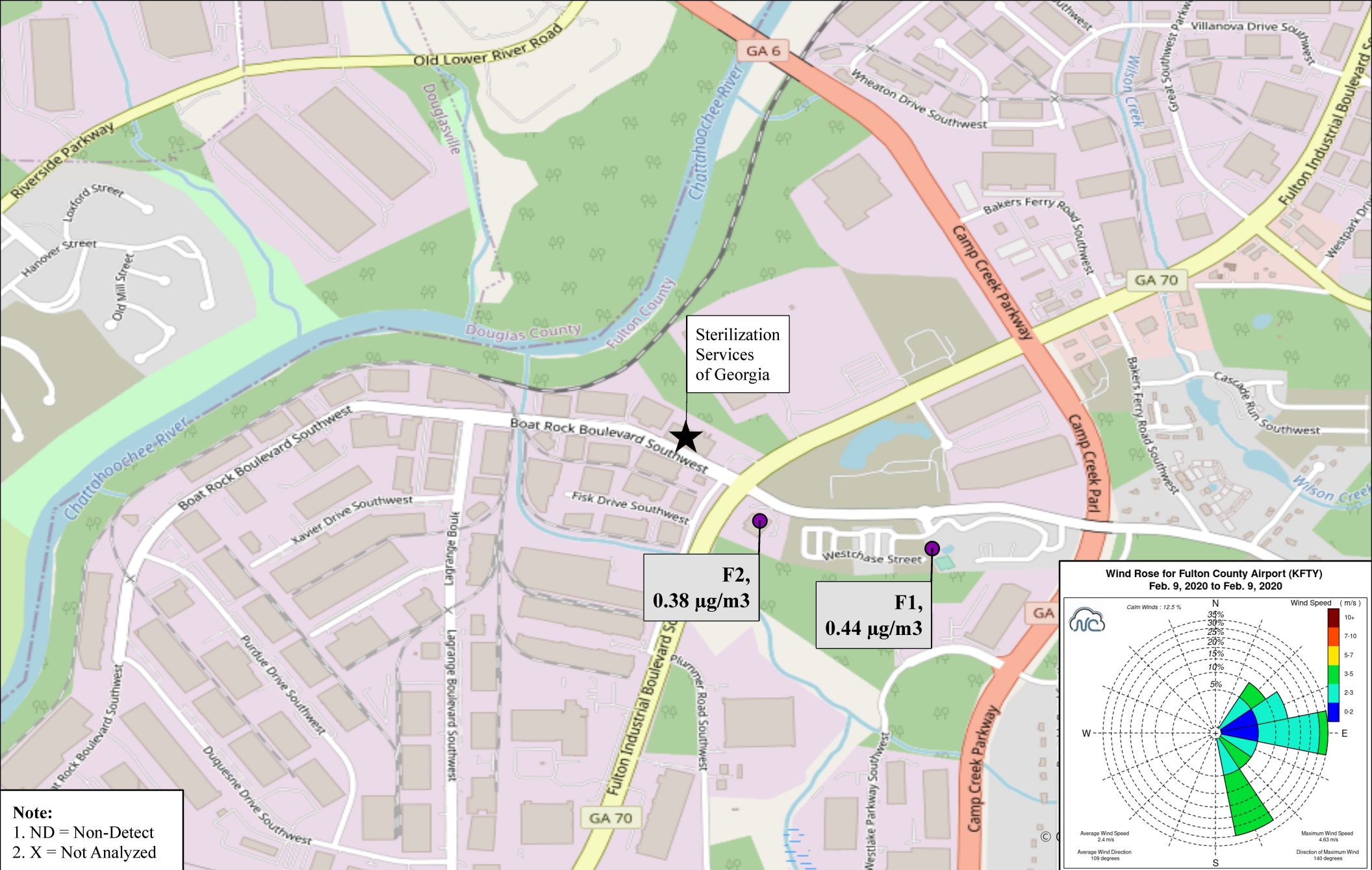
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

Ethylene Oxide Sampling
 Fulton County, GA

02/09/2020

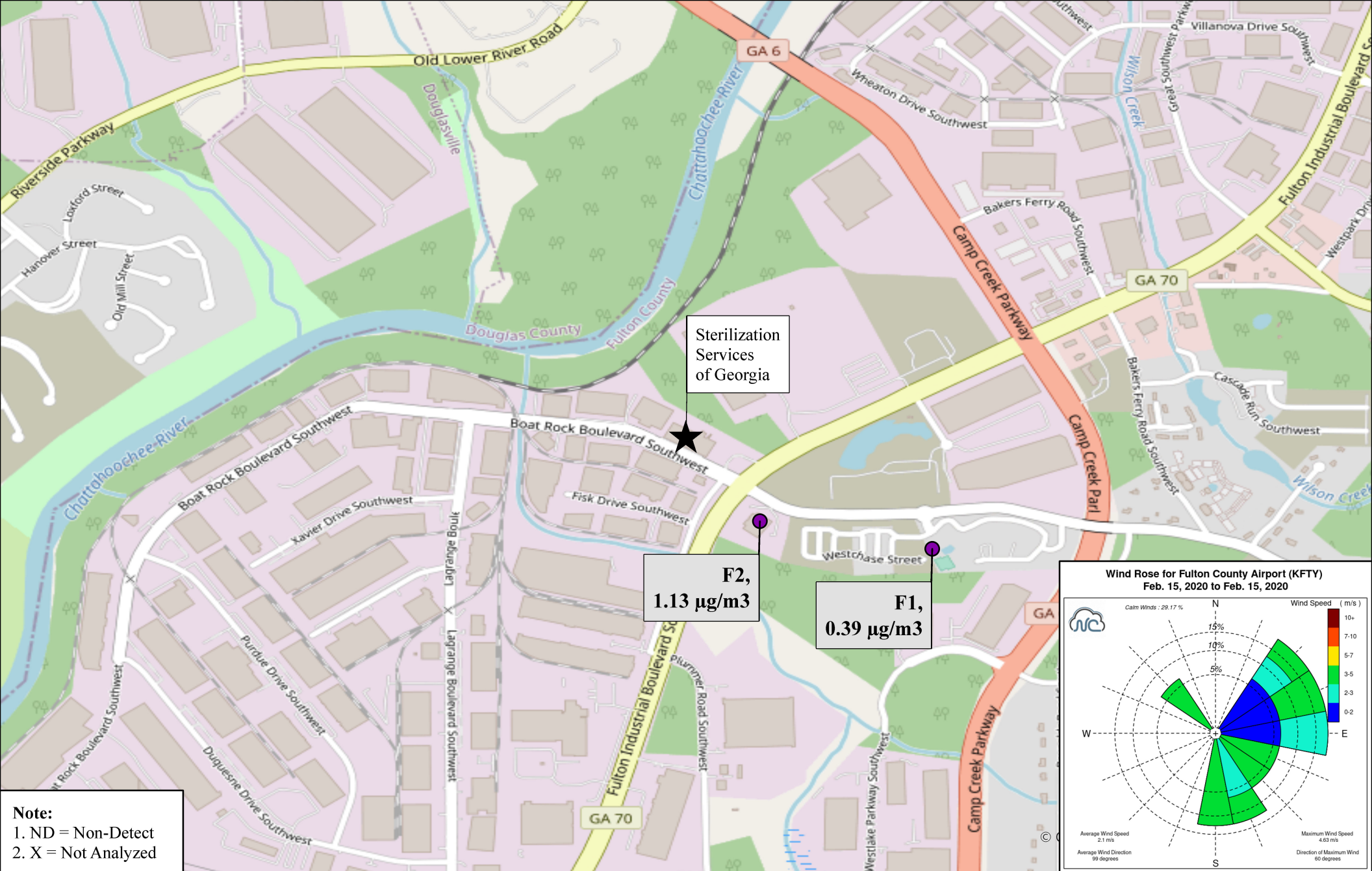
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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0 0.13 0.25
Miles



Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

Ethylene Oxide Sampling
Fulton County, GA

02/15/2020

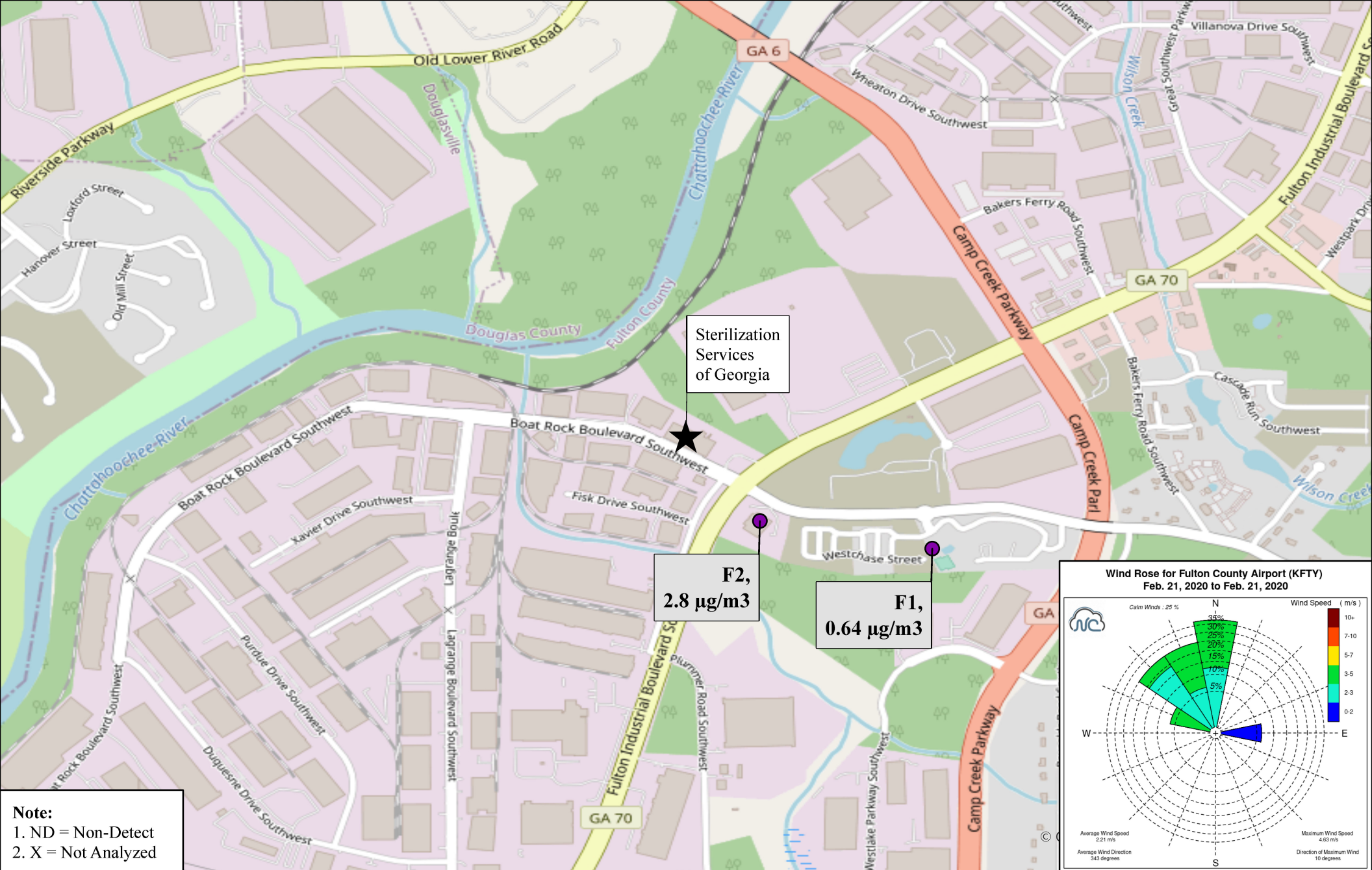
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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0 0.13 0.25
Miles



Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

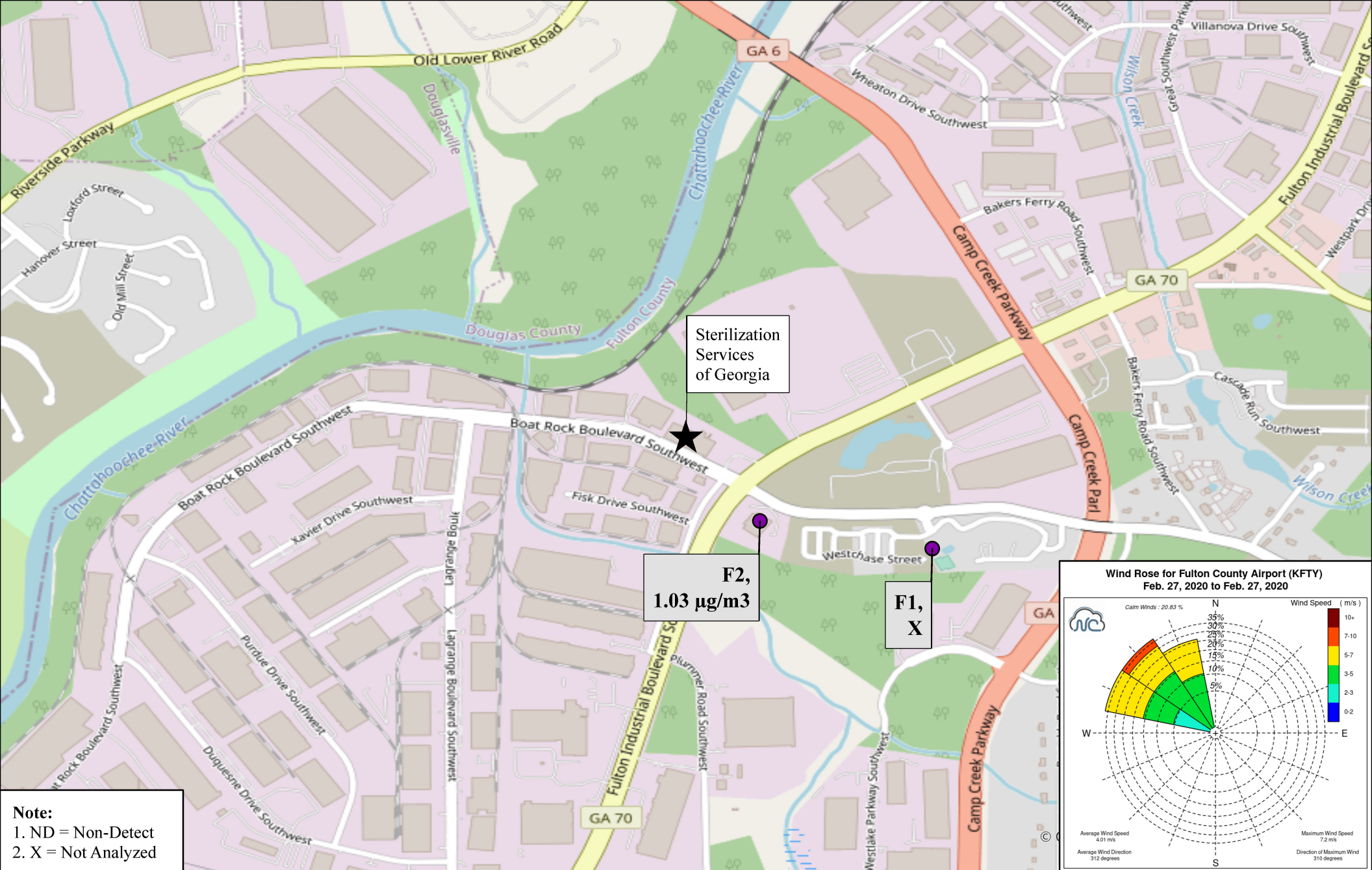
Ethylene Oxide Sampling
Fulton County, GA

02/21/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



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0 0.13 0.25
Miles



Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

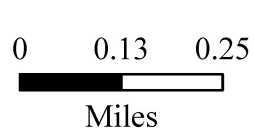
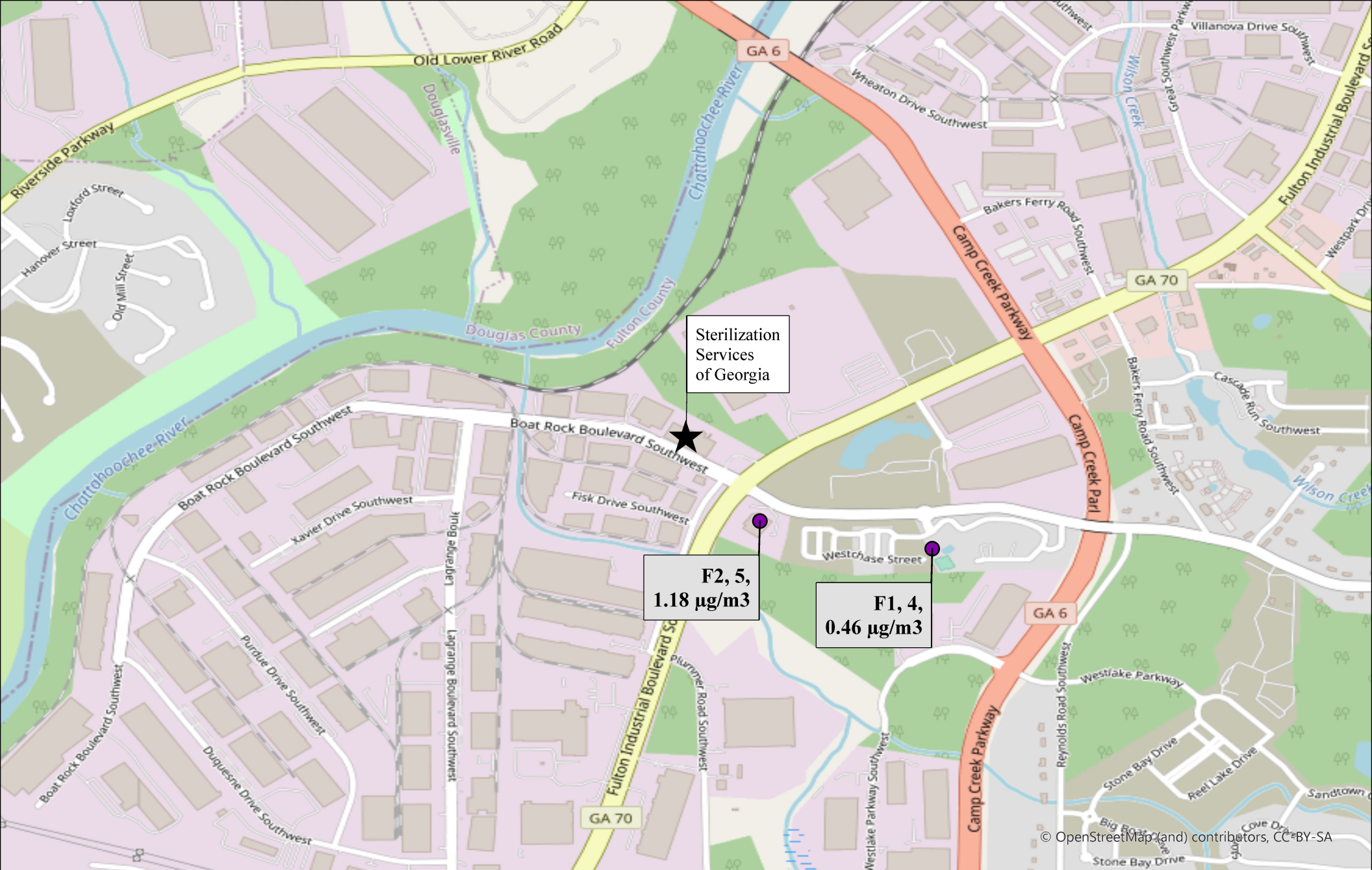
Ethylene Oxide Sampling
Fulton County, GA

02/27/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



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

**Ethylene Oxide Sampling
Fulton County, GA**

February 2020 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



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