

October 8, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief KH

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Cobb July 26- August 13, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of July 26- August 13, 2020 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 "LK" was given by ERG to indicate that the sample may be biased high. The Qualifier code of "D-F" was given by ERG to indicate that the duplicate exceeds DQO criteria. 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. The sample listed as AN indicate that the sampler malfunctioned while collecting the sample. Please note that ERG is now providing values for levels below the detection limit.

Location		Date		Qualifier		EtO Concentration (ug/m ³)
S1		07/26/2020				AN
S1		08/01/2020		LK		0.67
S1		08/07/2020				1.03
S1		08/13/2020				0.56
S2		07/26/2020				0.22
S2		08/01/2020		2, LK		1.00
S2		08/07/2020		2		1.53
S2		08/13/2020				0.99
S3		07/26/2020				1.26
S3		08/01/2020		LK		0.59
S3		08/07/2020				1.49
S3		08/13/2020				0.91
S4		07/26/2020				0.53
S4		08/01/2020		LK		0.83
S4		08/07/2020		D-F		0.59

Location		Date		Qualifier		EtO Concentration (ug/m ³)
S4		08/13/2020		2		0.74
S4 QA		08/07/2020		2, D-F		0.87

If you have any questions, please let me know.

DGO/do



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

September 10, 2020

Ms. Jaime Gore
U.S. Environmental Protection Agency, Region 4
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 07/29/20 12:13 through 08/21/20 12:53.

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: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
Cobb FB	0072930-07	Air	07/22/20 23:59	07/29/20 12:13
S1	0080535-01	Air	07/26/20 23:59	08/05/20 14:30
S2	0080535-02	Air	07/26/20 23:59	08/05/20 14:30
S3	0080535-03	Air	07/26/20 23:59	08/05/20 14:30
S4	0080535-04	Air	07/26/20 23:59	08/05/20 14:30
S1	0081226-01	Air	08/01/20 23:59	08/12/20 12:12
S2	0081226-02	Air	08/01/20 23:59	08/12/20 12:12
S3	0081226-03	Air	08/01/20 23:59	08/12/20 12:12
S4	0081226-04	Air	08/01/20 23:59	08/12/20 12:12
S1	0081932-01	Air	08/07/20 23:59	08/19/20 13:30
S2	0081932-02	Air	08/07/20 23:59	08/19/20 13:30
S3	0081932-03	Air	08/07/20 23:59	08/19/20 13:30
S4	0081932-04	Air	08/07/20 23:59	08/19/20 13:30
S4 QA	0081932-05	Air	08/07/20 23:59	08/19/20 13:30
S1	0082116-01	Air	08/13/20 23:59	08/21/20 12:53
S2	0082116-02	Air	08/13/20 23:59	08/21/20 12:53
S3	0082116-03	Air	08/13/20 23:59	08/21/20 12:53
S4	0082116-04	Air	08/13/20 23:59	08/21/20 12:53



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: Cobb FB

Lab ID: 0072930-07

Sampled: 07/22/20 23:59

Pressure @ Receipt: 29.50" Hg

Canister #: SAT025

Received: 07/29/20 12:13

Comments: Field Blank

Analyzed: 08/20/20 20:03

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	0.0193	0.03	U	0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0080535-01

Sampled: 07/26/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 19662

Received: 08/05/20 14:30

Comments: Received at ambient pressure

Analyzed: 08/20/20 21:53

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	0.0999	0.18		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0080535-02

Sampled: 07/26/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT044

Received: 08/05/20 14:30

Comments: Received at ambient pressure

Analyzed: 08/21/20 00:38

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	0.123	0.22		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0080535-03

Sampled: 07/26/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: 5142

Received: 08/05/20 14:30

Comments:

Analyzed: 08/21/20 04:18

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	0.696	1.26		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0080535-04

Sampled: 07/26/20 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: 0049

Received: 08/05/20 14:30

Comments:

Analyzed: 08/20/20 23:43

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	0.296	0.53		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0081226-01

Sampled: 08/01/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: SAT067

Received: 08/12/20 12:12

Comments:

Analyzed: 08/28/20 17:45

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	0.371	0.67	LK	0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0081226-02

Sampled: 08/01/20 23:59

Pressure @ Receipt: 0" Hg

Canister #: SAT122

Received: 08/12/20 12:12

Comments: Received at ambient

Analyzed: 08/28/20 18:49

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	0.554	1.00	LK	0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0081226-03

Sampled: 08/01/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 18872

Received: 08/12/20 12:12

Comments:

Analyzed: 08/28/20 19:54

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	0.326	0.59	LK	0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0081226-04

Sampled: 08/01/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 5106

Received: 08/12/20 12:12

Comments:

Analyzed: 08/28/20 20:58

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	0.458	0.83	LK	0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0081932-01

Sampled: 08/07/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 5090

Received: 08/19/20 13:30

Comments:

Analyzed: 09/01/20 16:36

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		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0081932-02

Sampled: 08/07/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: SAT029

Received: 08/19/20 13:30

Comments:

Analyzed: 09/01/20 17:30

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	0.848	1.53		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0081932-03

Sampled: 08/07/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT014

Received: 08/19/20 13:30

Comments:

Analyzed: 09/01/20 18:25

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	0.826	1.49		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0081932-04

Sampled: 08/07/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 35131

Received: 08/19/20 13:30

Comments:

Analyzed: 09/01/20 19:20

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	0.329	0.59	D-F	0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4 QA

Lab ID: 0081932-05

Sampled: 08/07/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT156

Received: 08/19/20 13:30

Comments: Received at ambient pressure

Analyzed: 09/01/20 21:09

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	0.481	0.87	D-F	0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0082116-01

Sampled: 08/13/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: A22330

Received: 08/21/20 12:53

Comments:

Analyzed: 09/03/20 00:37

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	0.309	0.56		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0082116-02

Sampled: 08/13/20 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: 5082

Received: 08/21/20 12:53

Comments:

Analyzed: 09/03/20 01:32

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	0.550	0.99		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0082116-03

Sampled: 08/13/20 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 19663

Received: 08/21/20 12:53

Comments:

Analyzed: 09/03/20 02:26

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	0.503	0.91		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0082116-04

Sampled: 08/13/20 23:59

Pressure @ Receipt: 9.50" Hg

Canister #: A21056

Received: 08/21/20 12:53

Comments:

Analyzed: 09/03/20 03:21

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	0.408	0.74		0.0285



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FILE #: 4222.00

REPORTED: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

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

Batch B0H2009 - Summa Canister Prep

Blank (B0H2009-BLK1)

Prepared & Analyzed: 08/20/20

Ethylene oxide	ND	ppbv				U
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Batch B0H2802 - Summa Canister Prep

Blank (B0H2802-BLK1)

Prepared: 08/11/20 Analyzed: 08/28/20

Ethylene oxide	ND	ppbv				U
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Batch B0I0108 - Summa Canister Prep

Blank (B0I0108-BLK1)

Prepared & Analyzed: 09/01/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0I0108-DUP1)

Source: 0081932-04

Prepared: 08/07/20 Analyzed: 09/01/20

Ethylene oxide	0.376	ppbv	0.33	13.5	25	
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Duplicate (B0I0108-DUP2)

Source: 0081932-05

Prepared: 08/07/20 Analyzed: 09/01/20

Ethylene oxide	0.524	ppbv	0.48	8.52	25	
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Batch B0I0206 - Summa Canister Prep

Blank (B0I0206-BLK1)

Prepared & Analyzed: 09/02/20

Ethylene oxide	ND	ppbv				U
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SUBMITTED: 07/29/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Cobb

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

Sequence 2008018

Calibration Check (2008018-CCV1)

Prepared & Analyzed: 08/07/20

Ethylene oxide	3.01	ppbv	21.6	30.00
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Sequence 2008048

Calibration Check (2008048-CCV1)

Prepared & Analyzed: 08/20/20

Ethylene oxide	2.51	ppbv	0.3	30.00
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Sequence 2008066

Calibration Check (2008066-CCV1)

Prepared & Analyzed: 08/28/20

Ethylene oxide	2.31	ppbv	-6.7	30.00
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Sequence 2009001

Calibration Check (2009001-CCV1)

Prepared & Analyzed: 09/01/20

Ethylene oxide	2.22	ppbv	-11.3	30.00
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Sequence 2009005

Calibration Check (2009005-CCV1)

Prepared & Analyzed: 09/02/20

Ethylene oxide	2.31	ppbv	-7.5	30.00
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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: 09/10/20 13:43

SUBMITTED: 07/29/20 to 08/21/20

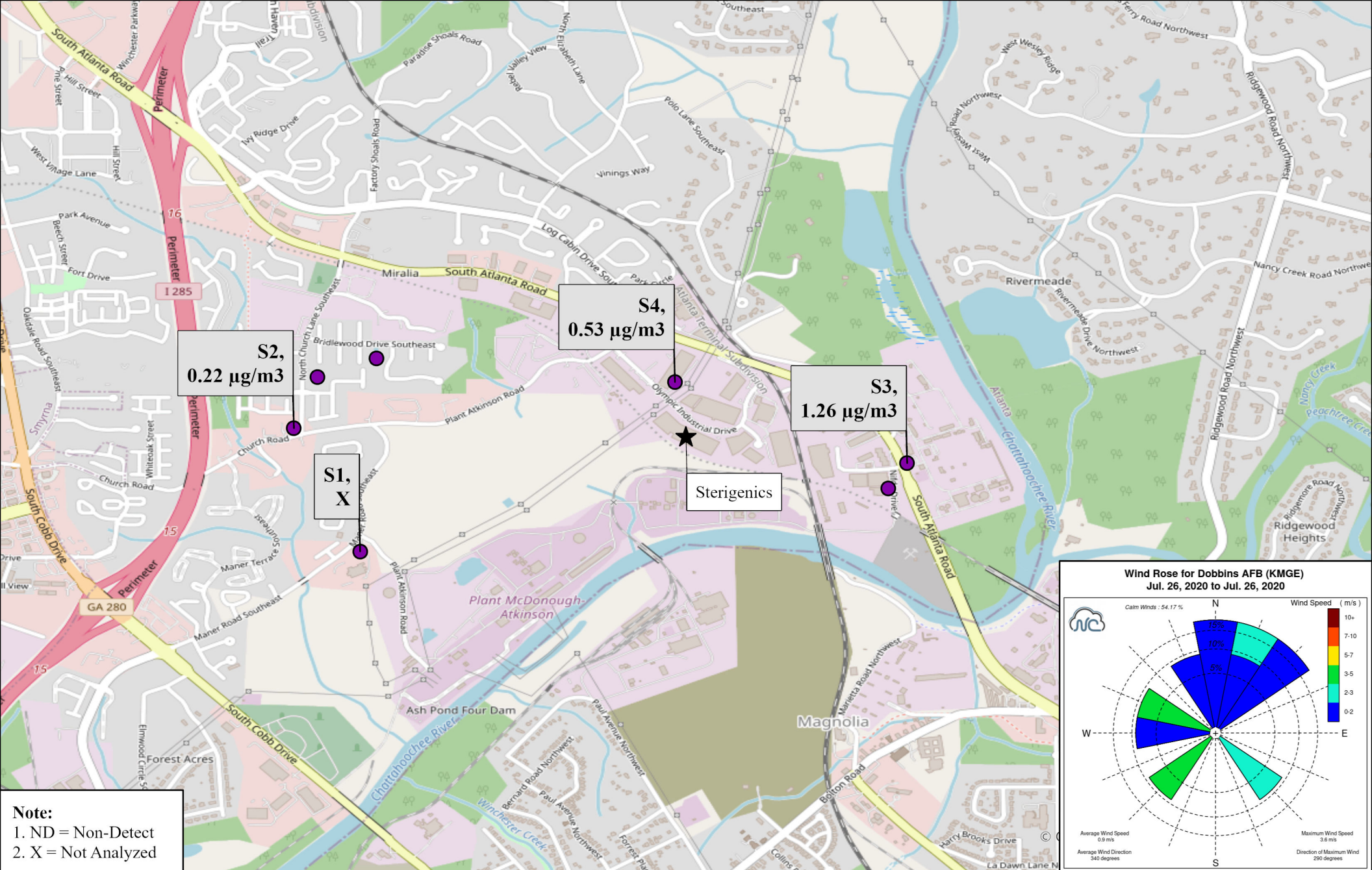
AQS SITE CODE:

SITE CODE: Cobb

Notes and Definitions

U	Under Detection Limit
LK	Analyte identified; Reported value may be biased high.
D-F	Duplicate exceeds DQO criteria.
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.



0 0.17 0.34
 Miles



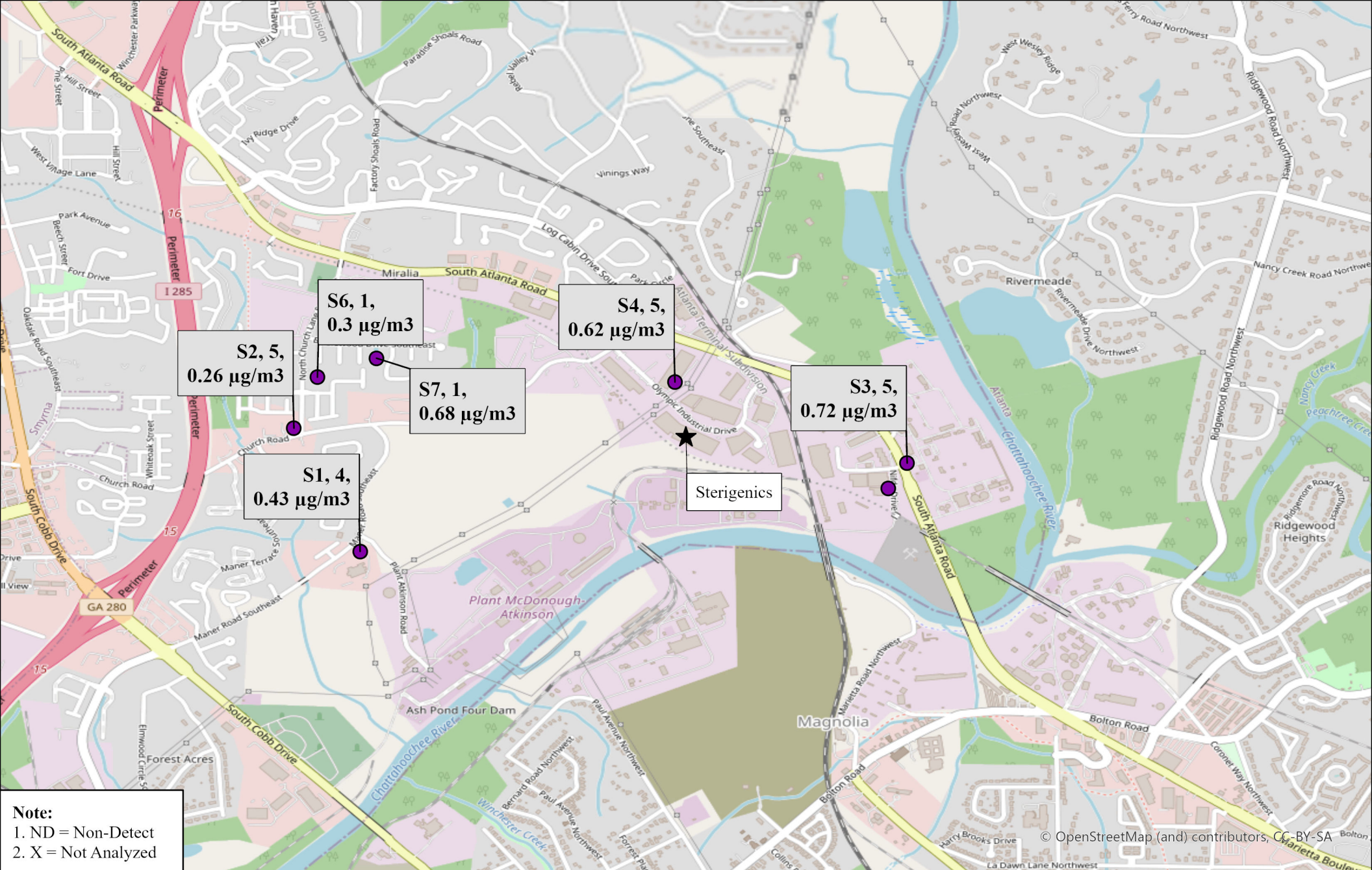
Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

Ethylene Oxide Sampling
 Cobb County, GA

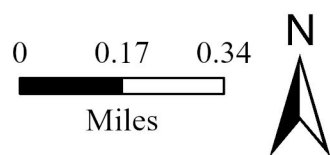
07/26/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



GEORGIA
 DEPARTMENT OF NATURAL RESOURCES
 ENVIRONMENTAL PROTECTION DIVISION

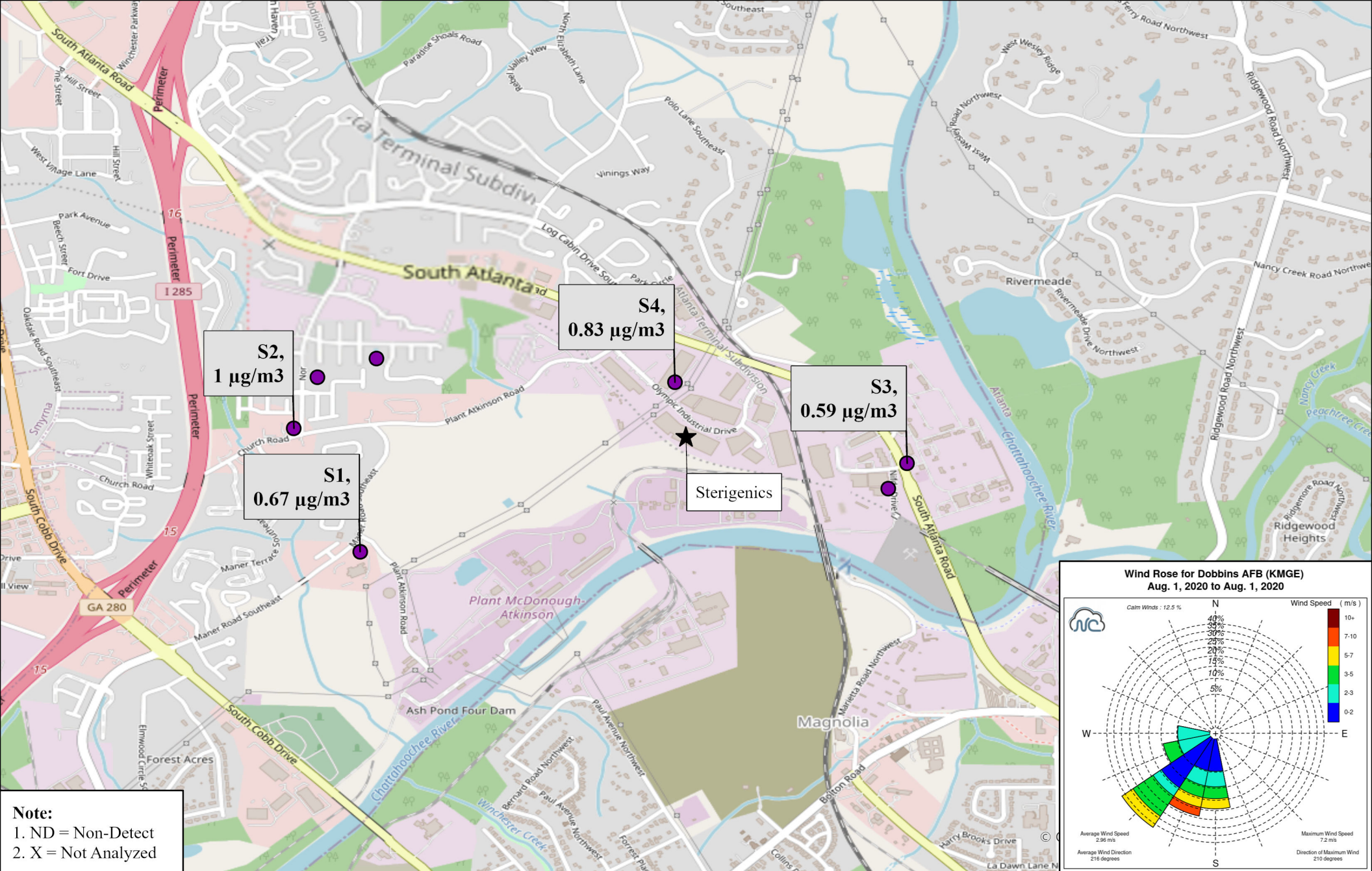


Ethylene Oxide Sampling
 Cobb County, GA



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

July 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



0 0.17 0.34
 Miles



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

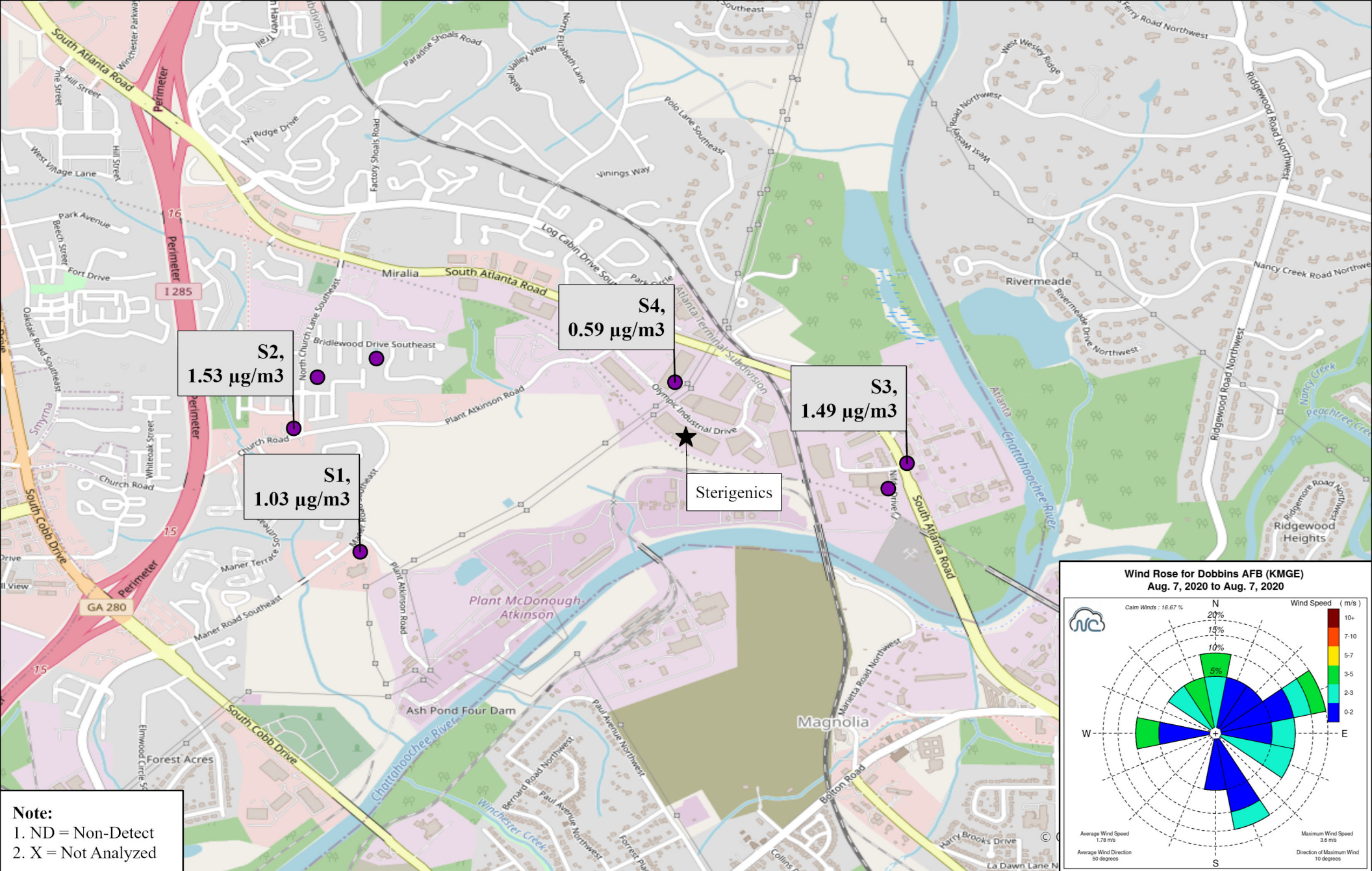
Ethylene Oxide Sampling
 Cobb County, GA

08/01/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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0 0.17 0.34
Miles



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

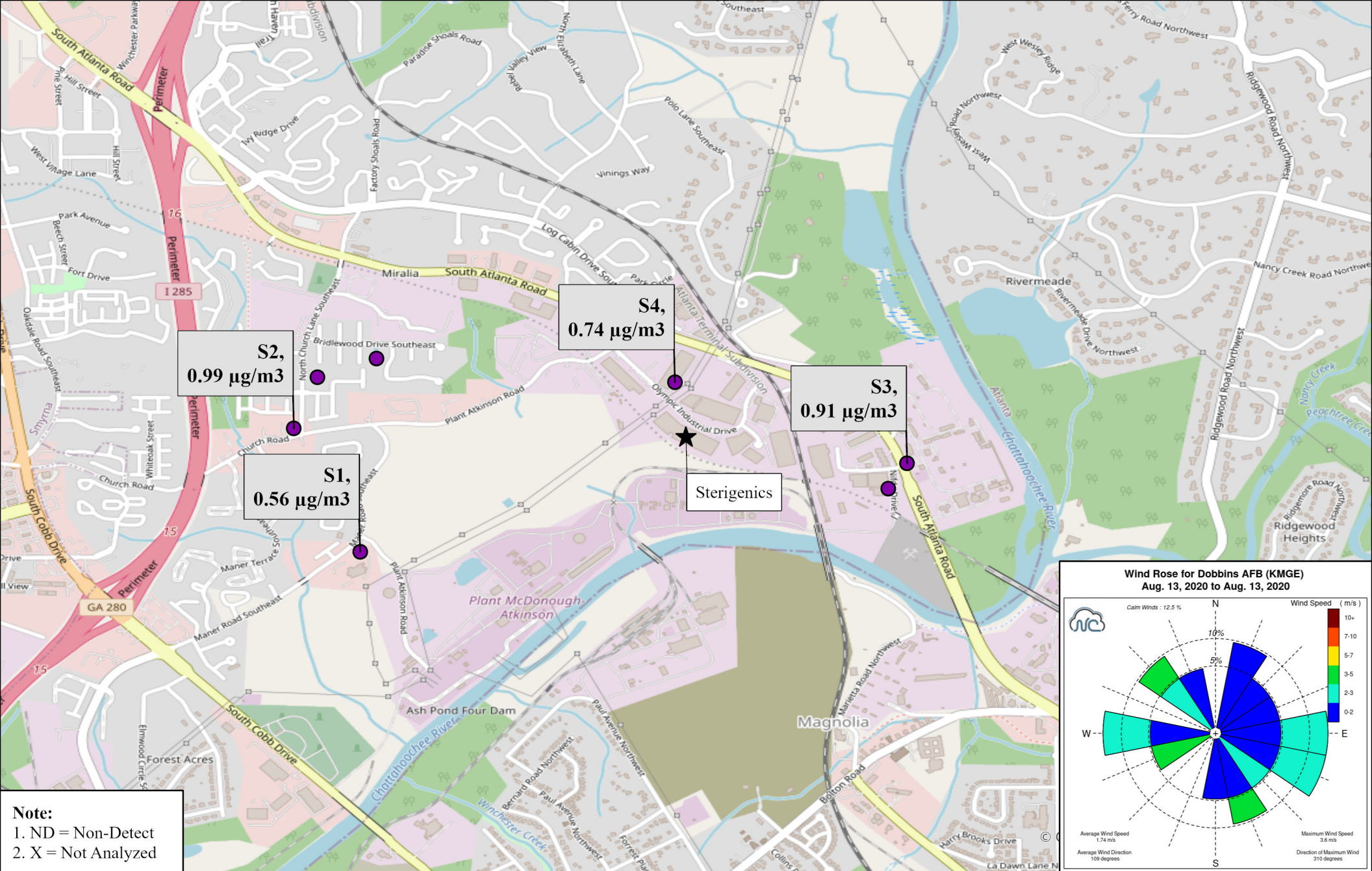
Ethylene Oxide Sampling
Cobb County, GA

08/07/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



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0 0.17 0.34
 Miles



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

Ethylene Oxide Sampling
 Cobb County, GA

08/13/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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