

**EPD Director's Office**

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

June 18, 2020

**MEMORANDUM**

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Cobb April 15- May 3, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of April 15- May 3, 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 "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 BI indicate that it was damaged in transit. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m <sup>3</sup> )
S1	04/15/2020		0.22
S1	04/21/2020	2	0.86
S1	04/27/2020		0.11
S1	05/03/2020	2	0.57
S2	04/15/2020		0.48
S2	04/21/2020	2	0.41
S2	04/27/2020	2	1.26
S2	05/03/2020		BI
S3	04/15/2020	2	0.38
S3	04/21/2020	2	0.96
S3	04/27/2020	2	0.42
S3	05/03/2020	2	0.95
S4	04/15/2020	2	0.27
S4	04/21/2020	2	0.29
S4	04/27/2020	2	0.89
S4	05/03/2020		1.16
S4 QA	04/21/2020	2	0.96
S7 SA	04/27/2020		0.41

If you have any questions, please let me know.

DGO/do



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

June 05, 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 04/22/20 10:06 through 05/14/20 10:46.

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](mailto: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: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

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>
S1	0042217-01	Air	04/15/20 23:59	04/22/20 10:06
S2	0042217-02	Air	04/15/20 23:59	04/22/20 10:06
S3	0042217-03	Air	04/15/20 23:59	04/22/20 10:06
S4	0042217-04	Air	04/15/20 23:59	04/22/20 10:06
S1	0050113-01	Air	04/21/20 23:59	05/01/20 12:38
S2	0050113-02	Air	04/21/20 23:59	05/01/20 12:38
S3	0050113-03	Air	04/21/20 23:59	05/01/20 12:38
S4	0050113-04	Air	04/21/20 23:59	05/01/20 12:38
S4 QA	0050113-05	Air	04/21/20 23:59	05/01/20 12:38
Cobb FB	0050113-06	Air	04/24/20 00:00	05/01/20 12:38
S1	0050617-01	Air	04/27/20 23:59	05/06/20 11:21
S2	0050617-02	Air	04/27/20 23:59	05/06/20 11:21
S4	0050617-03	Air	04/27/20 23:59	05/06/20 11:21
S7-SA	0050617-04	Air	04/27/20 23:59	05/06/20 11:21
S3	0050617-05	Air	04/27/20 23:59	05/06/20 11:21
S1	0051409-01	Air	05/03/20 23:59	05/14/20 10:46
S3	0051409-03	Air	05/03/20 23:59	05/14/20 10:46
S4	0051409-04	Air	05/03/20 23:59	05/14/20 10:46



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0042217-01

Sampled: 04/15/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT096

Received: 04/22/20 10:06

Comments:

Analyzed: 04/30/20 23:07

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.121	0.22		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0042217-02

Sampled: 04/15/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 5079

Received: 04/22/20 10:06

Comments:

Analyzed: 05/01/20 00:04

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.268	0.48		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0042217-03

Sampled: 04/15/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT018

Received: 04/22/20 10:06

Comments:

Analyzed: 05/01/20 01:01

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.208	0.38		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0042217-04

Sampled: 04/15/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: A21083

Received: 04/22/20 10:06

Comments:

Analyzed: 05/01/20 01:57

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.149	0.27		0.0285





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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0050113-01

Sampled: 04/21/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 5086

Received: 05/01/20 12:38

Comments:

Analyzed: 05/16/20 19:05

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.476	0.86		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0050113-02

Sampled: 04/21/20 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: 5101

Received: 05/01/20 12:38

Comments:

Analyzed: 05/16/20 16:19

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.226	0.41		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0050113-03

Sampled: 04/21/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: SAT038

Received: 05/01/20 12:38

Comments:

Analyzed: 05/16/20 20:00

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.534	0.96		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0050113-04

Sampled: 04/21/20 23:59

Pressure @ Receipt: 0.0 psi

Canister #: 18832

Received: 05/01/20 12:38

Comments:

Analyzed: 05/16/20 20:55

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.159	0.29		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4 QA

Lab ID: 0050113-05

Sampled: 04/21/20 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: SAT182

Received: 05/01/20 12:38

Comments:

Analyzed: 05/16/20 22:46

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.531	0.96		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: Cobb FB

Lab ID: 0050113-06

Sampled: 04/24/20 00:00

Pressure @ Receipt: 30.00" Hg

Canister #: 9570

Received: 05/01/20 12:38

Comments: Field Blank

Analyzed: 05/21/20 20:15

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0050617-01

Sampled: 04/27/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: 18827

Received: 05/06/20 11:21

Comments:

Analyzed: 05/19/20 04:47

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0612	0.11		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0050617-02

Sampled: 04/27/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 5000

Received: 05/06/20 11:21

Comments:

Analyzed: 05/19/20 05:43

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.699	1.26		0.0285





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ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0050617-03

Sampled: 04/27/20 23:59

Pressure @ Receipt: 0" Hg

Canister #: SAT173

Received: 05/06/20 11:21

Comments: Received at ambient

Analyzed: 05/22/20 07:20

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.492	0.89		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S7-SA

Lab ID: 0050617-04

Sampled: 04/27/20 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 18878

Received: 05/06/20 11:21

Comments:

Analyzed: 05/22/20 08:15

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.229	0.41		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0050617-05

Sampled: 04/27/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: SAT099

Received: 05/06/20 11:21

Comments:

Analyzed: 05/22/20 21:22

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.234	0.42		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0051409-01

Sampled: 05/03/20 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 5065

Received: 05/14/20 10:46

Comments:

Analyzed: 05/27/20 00:44

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.316	0.57		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0051409-03

Sampled: 05/03/20 23:59

Pressure @ Receipt: 8.00" Hg

Canister #: 5062

Received: 05/14/20 10:46

Comments:

Analyzed: 05/27/20 01:40

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.526	0.95		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0051409-04

Sampled: 05/03/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: SAT058

Received: 05/14/20 10:46

Comments:

Analyzed: 05/27/20 02:35

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.644	1.16		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

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 B0D2907 - Summa Canister Prep

#### Blank (B0D2907-BLK1)

Prepared: 04/29/20 Analyzed: 04/30/20

Ethylene oxide	ND	ppbv				U
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### Batch B0E1502 - Summa Canister Prep

#### Blank (B0E1502-BLK1)

Prepared: 05/15/20 Analyzed: 05/16/20

Ethylene oxide	ND	ppbv				U
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#### Duplicate (B0E1502-DUP1)

Source: 0050113-04

Prepared: 04/21/20 Analyzed: 05/16/20

Ethylene oxide	0.151	ppbv	0.16	4.96	25	
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#### Duplicate (B0E1502-DUP2)

Source: 0050113-05

Prepared: 04/21/20 Analyzed: 05/16/20

Ethylene oxide	0.544	ppbv	0.53	2.51	25	
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### Batch B0E1703 - Summa Canister Prep

#### Blank (B0E1703-BLK1)

Prepared: 05/17/20 Analyzed: 05/18/20

Ethylene oxide	ND	ppbv				U
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### Batch B0E2104 - Summa Canister Prep

#### Blank (B0E2104-BLK1)

Prepared & Analyzed: 05/21/20

Ethylene oxide	ND	ppbv				U
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#### Duplicate (B0E2104-DUP2)

Source: 0050617-04

Prepared: 04/27/20 Analyzed: 05/22/20

Ethylene oxide	0.263	ppbv	0.23	14.1	25	
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### Batch B0E2203 - Summa Canister Prep

#### Blank (B0E2203-BLK1)

Prepared: 05/18/20 Analyzed: 05/22/20

Ethylene oxide	ND	ppbv				U
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### Batch B0E2608 - Summa Canister Prep

#### Blank (B0E2608-BLK1)

Prepared & Analyzed: 05/26/20

Ethylene oxide	ND	ppbv				U
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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: 06/05/20 12:12

SUBMITTED: 04/22/20 to 05/14/20

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 2004066

##### Calibration Check (2004066-CCV1)

Prepared: 04/29/20 Analyzed: 04/30/20

Ethylene oxide	1.97	ppbv	-21.1	30.00
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#### Sequence 2005034

##### Calibration Check (2005034-CCV1)

Prepared: 05/15/20 Analyzed: 05/16/20

Ethylene oxide	3.15	ppbv	26.0	30.00
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#### Sequence 2005035

##### Calibration Check (2005035-CCV1)

Prepared: 05/17/20 Analyzed: 05/18/20

Ethylene oxide	3.13	ppbv	25.3	30.00
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#### Sequence 2005050

##### Calibration Check (2005050-CCV1)

Prepared & Analyzed: 05/21/20

Ethylene oxide	2.66	ppbv	6.5	30.00
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#### Sequence 2005052

##### Calibration Check (2005052-CCV1)

Prepared & Analyzed: 05/22/20

Ethylene oxide	2.72	ppbv	10.2	30.00
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#### Sequence 2005056

##### Calibration Check (2005056-CCV1)

Prepared & Analyzed: 05/26/20

Ethylene oxide	2.55	ppbv	3.0	30.00
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**FILE #:** 4222.00

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**SUBMITTED:** 04/22/20 to 05/14/20

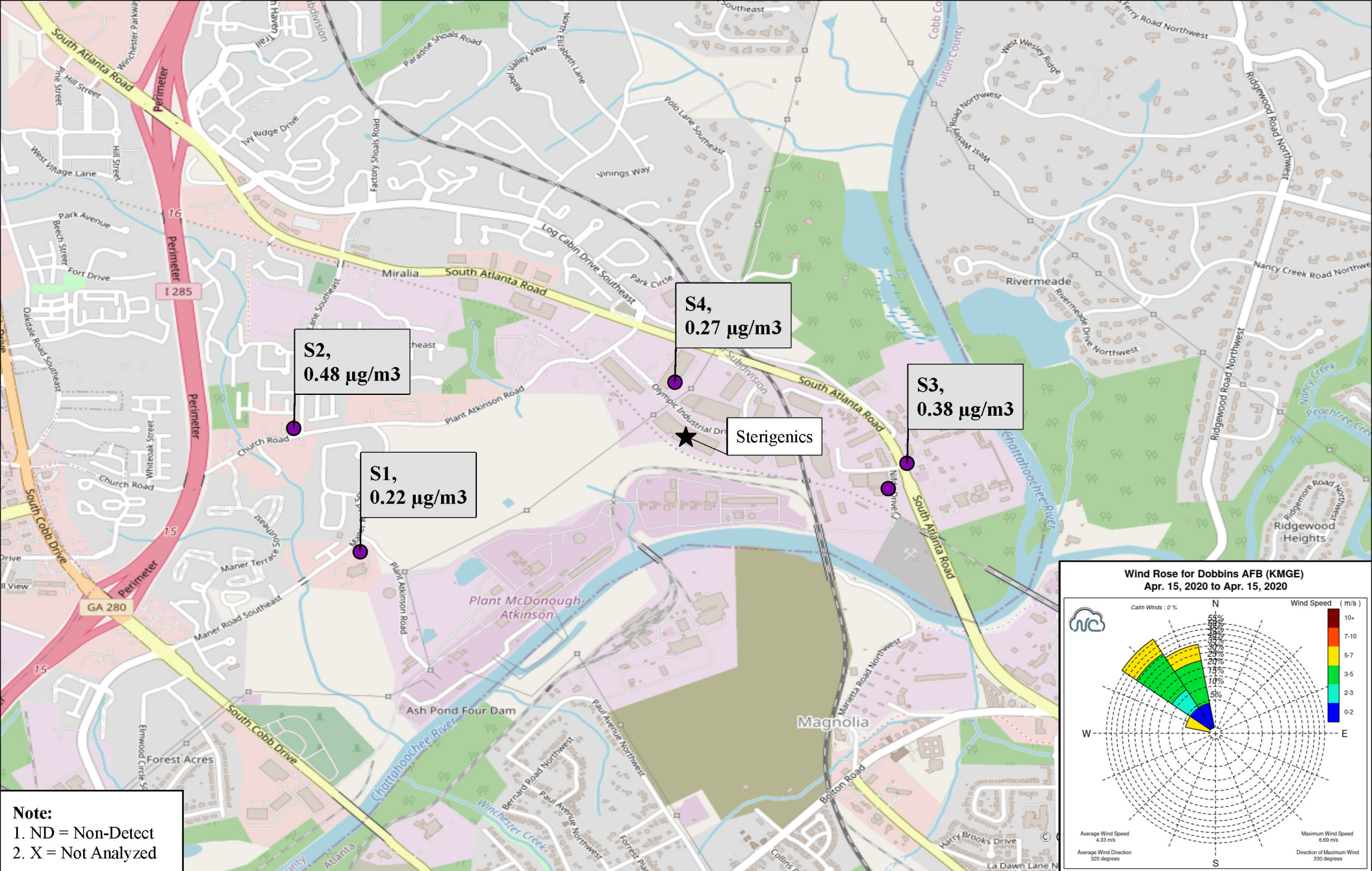
**AQS SITE CODE:**

**SITE CODE:** Cobb

### 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.



0 0.17 0.34  
 Miles



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

Ethylene Oxide Sampling  
 Cobb County, GA

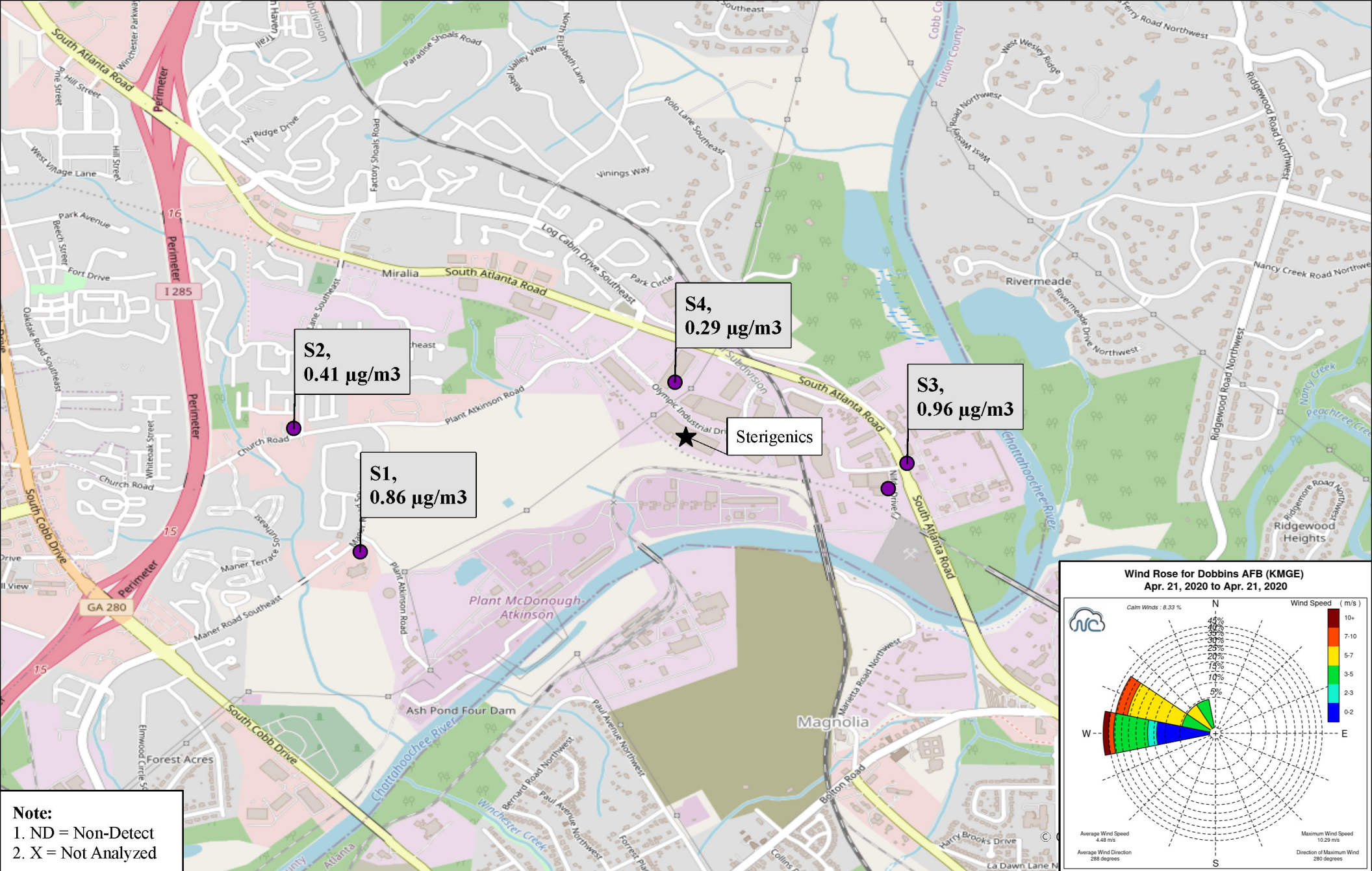
04/15/2020  
 Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group



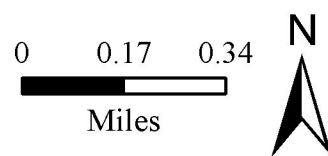
**GEORGIA**  
 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION





**Note:**  
 1. ND = Non-Detect  
 2. X = Not Analyzed

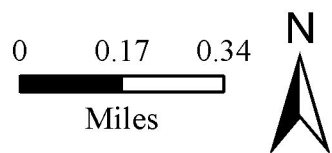
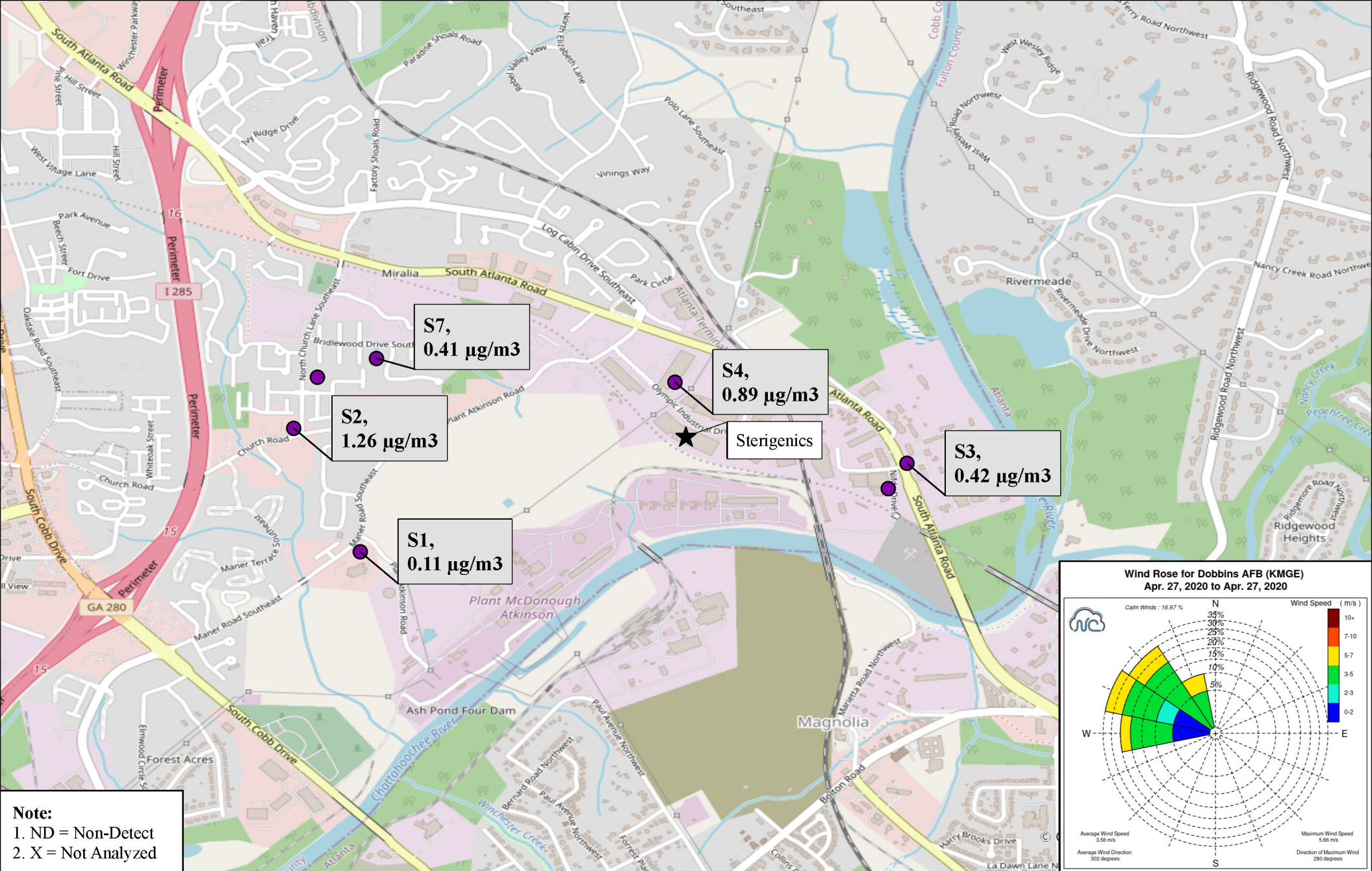


**Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )**

Ethylene Oxide Sampling  
 Cobb County, GA

04/21/2020  
 Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group





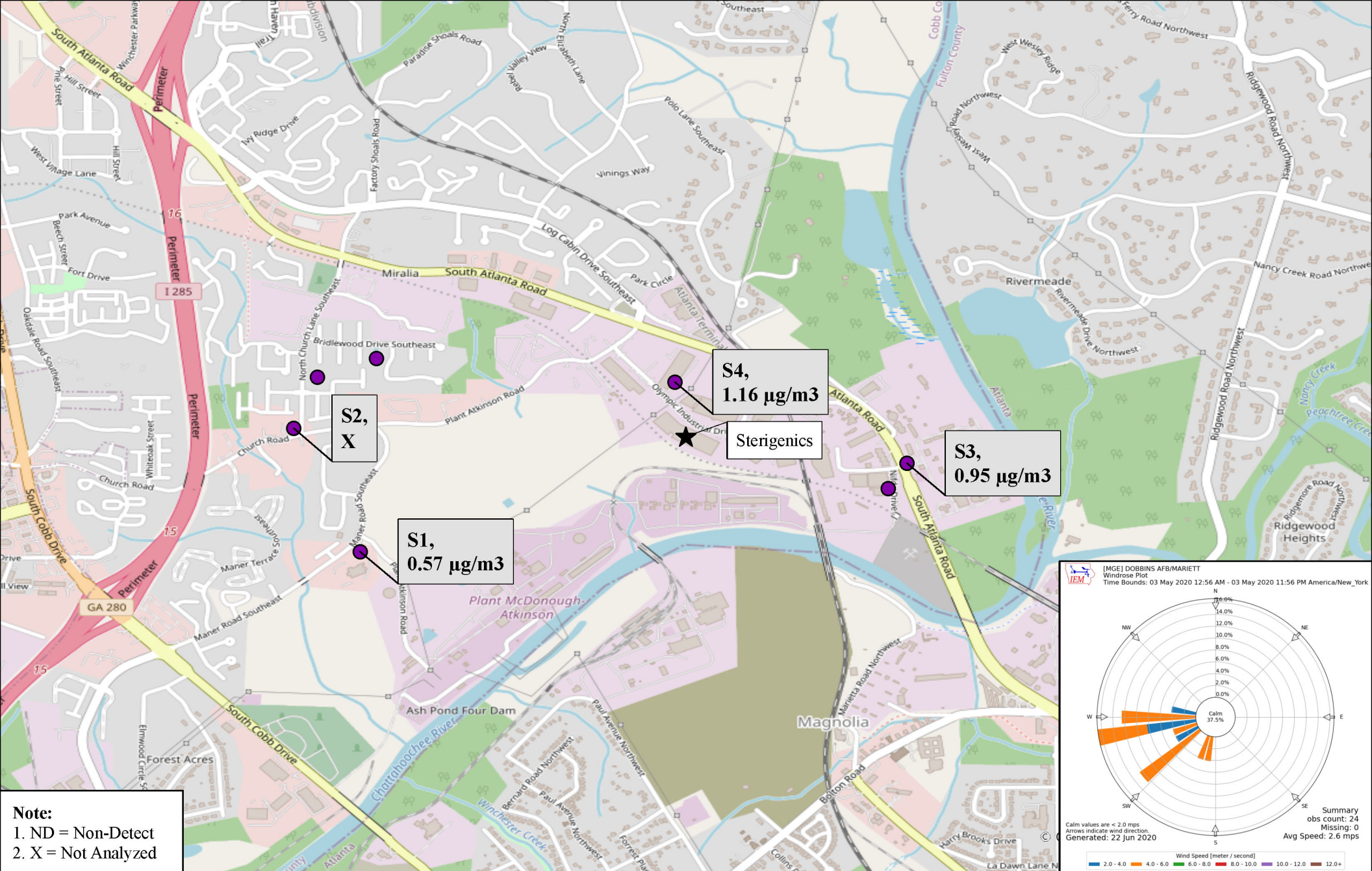
Ethylene Oxide Sampling  
Cobb County, GA

04/27/2020  
Sampled By: Georgia Environmental Protection Division  
Analyzed By: Eastern Research Group









0 0.17 0.34  
Miles



**Site ID, Concentration (µg/m³)**

Ethylene Oxide Sampling  
Cobb County, GA

05/03/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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ENVIRONMENTAL PROTECTION DIVISION