

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 ³) |
|----------|------------|-----------|--|
| 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

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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/m³</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/m³</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/m³</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/m³</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/m³</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/m³</u> | | <u>ppbv</u> |
| Ethylene oxide | 0.226 | 0.41 | | 0.0285 |



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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/m³</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/m³</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/m³</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/m³</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/m³</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/m³</u> | | <u>ppbv</u> |
| Ethylene oxide | 0.699 | 1.26 | | 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: 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/m³</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/m³</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/m³</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/m³</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/m³</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/m³</u> | | <u>ppbv</u> |
| Ethylene oxide | 0.644 | 1.16 | | 0.0285 |



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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 |
|---------|--------|-------|---------------|-----|-----------|-------|
|---------|--------|-------|---------------|-----|-----------|-------|

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 |
|----------------|----|------|--|--|--|---|

Batch B0E1502 - Summa Canister Prep

Blank (B0E1502-BLK1)

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

| | | | | | | |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv | | | | U |
|----------------|----|------|--|--|--|---|

Duplicate (B0E1502-DUP1)

Source: 0050113-04

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

| | | | | | | |
|----------------|-------|------|------|------|----|--|
| Ethylene oxide | 0.151 | ppbv | 0.16 | 4.96 | 25 | |
|----------------|-------|------|------|------|----|--|

Duplicate (B0E1502-DUP2)

Source: 0050113-05

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

| | | | | | | |
|----------------|-------|------|------|------|----|--|
| Ethylene oxide | 0.544 | ppbv | 0.53 | 2.51 | 25 | |
|----------------|-------|------|------|------|----|--|

Batch B0E1703 - Summa Canister Prep

Blank (B0E1703-BLK1)

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

| | | | | | | |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv | | | | U |
|----------------|----|------|--|--|--|---|

Batch B0E2104 - Summa Canister Prep

Blank (B0E2104-BLK1)

Prepared & Analyzed: 05/21/20

| | | | | | | |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv | | | | U |
|----------------|----|------|--|--|--|---|

Duplicate (B0E2104-DUP2)

Source: 0050617-04

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

| | | | | | | |
|----------------|-------|------|------|------|----|--|
| Ethylene oxide | 0.263 | ppbv | 0.23 | 14.1 | 25 | |
|----------------|-------|------|------|------|----|--|

Batch B0E2203 - Summa Canister Prep

Blank (B0E2203-BLK1)

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

| | | | | | | |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv | | | | U |
|----------------|----|------|--|--|--|---|

Batch B0E2608 - Summa Canister Prep

Blank (B0E2608-BLK1)

Prepared & Analyzed: 05/26/20

| | | | | | | |
|----------------|----|------|--|--|--|---|
| Ethylene oxide | ND | ppbv | | | | U |
|----------------|----|------|--|--|--|---|



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 |
|---------|--------|-------|--------------|-----------|-------|
|---------|--------|-------|--------------|-----------|-------|

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 |
|----------------|------|------|-------|-------|

Sequence 2005034

Calibration Check (2005034-CCV1)

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

| | | | | |
|----------------|------|------|------|-------|
| Ethylene oxide | 3.15 | ppbv | 26.0 | 30.00 |
|----------------|------|------|------|-------|

Sequence 2005035

Calibration Check (2005035-CCV1)

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

| | | | | |
|----------------|------|------|------|-------|
| Ethylene oxide | 3.13 | ppbv | 25.3 | 30.00 |
|----------------|------|------|------|-------|

Sequence 2005050

Calibration Check (2005050-CCV1)

Prepared & Analyzed: 05/21/20

| | | | | |
|----------------|------|------|-----|-------|
| Ethylene oxide | 2.66 | ppbv | 6.5 | 30.00 |
|----------------|------|------|-----|-------|

Sequence 2005052

Calibration Check (2005052-CCV1)

Prepared & Analyzed: 05/22/20

| | | | | |
|----------------|------|------|------|-------|
| Ethylene oxide | 2.72 | ppbv | 10.2 | 30.00 |
|----------------|------|------|------|-------|

Sequence 2005056

Calibration Check (2005056-CCV1)

Prepared & Analyzed: 05/26/20

| | | | | |
|----------------|------|------|-----|-------|
| Ethylene oxide | 2.55 | ppbv | 3.0 | 30.00 |
|----------------|------|------|-----|-------|



CERTIFICATE OF ANALYSIS

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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

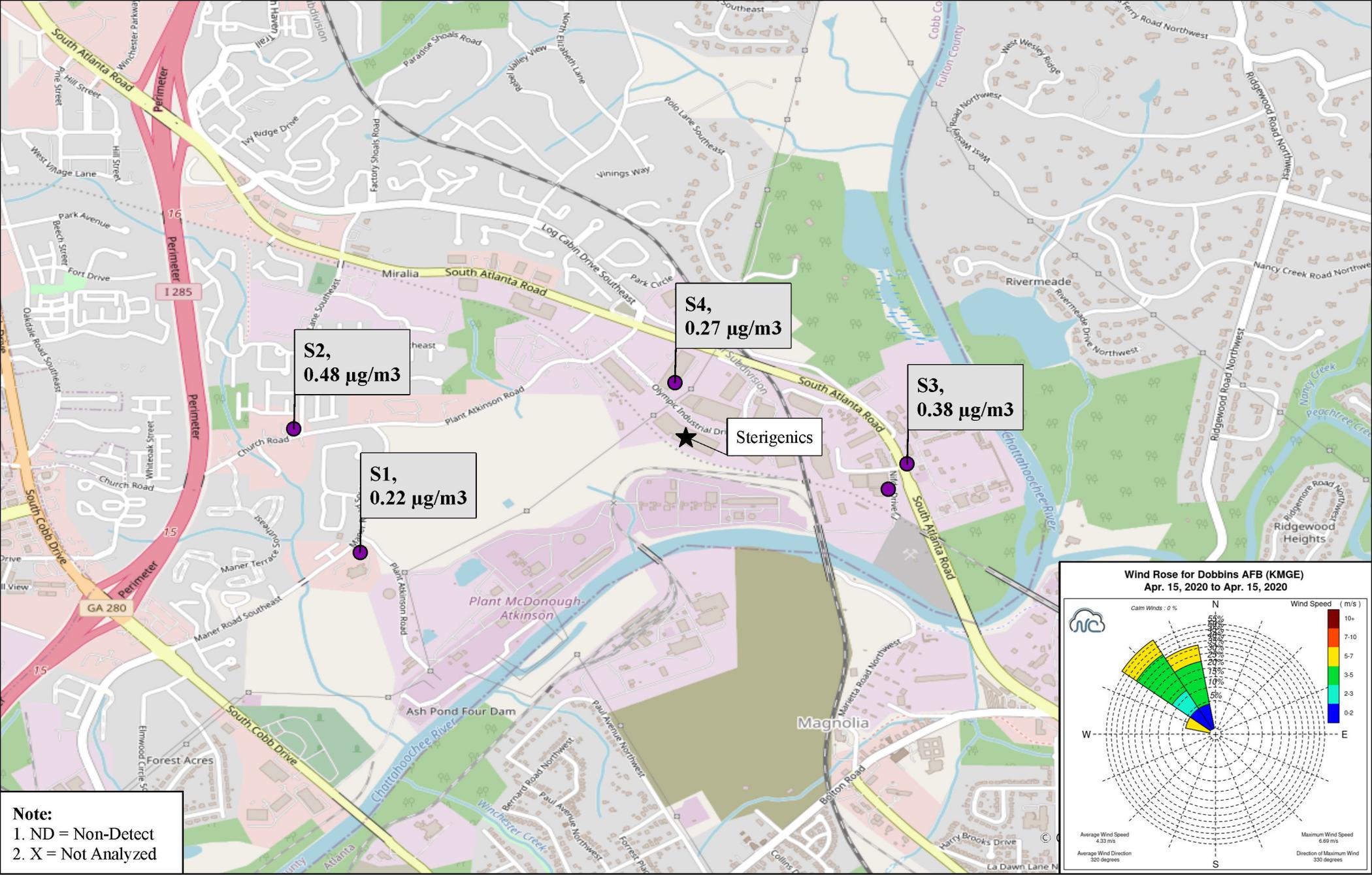
AQS SITE CODE:

SITE CODE: Cobb

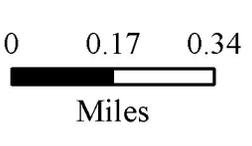
Notes and Definitions

| | |
|-----|-----------------------------|
| 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.



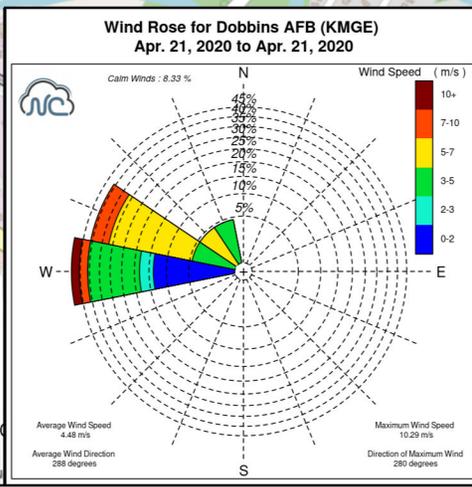
Note:
 1. ND = Non-Detect
 2. X = Not Analyzed



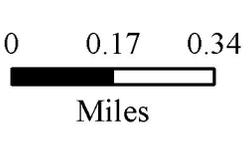
Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

Ethylene Oxide Sampling
 Cobb County, GA

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



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

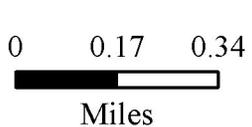
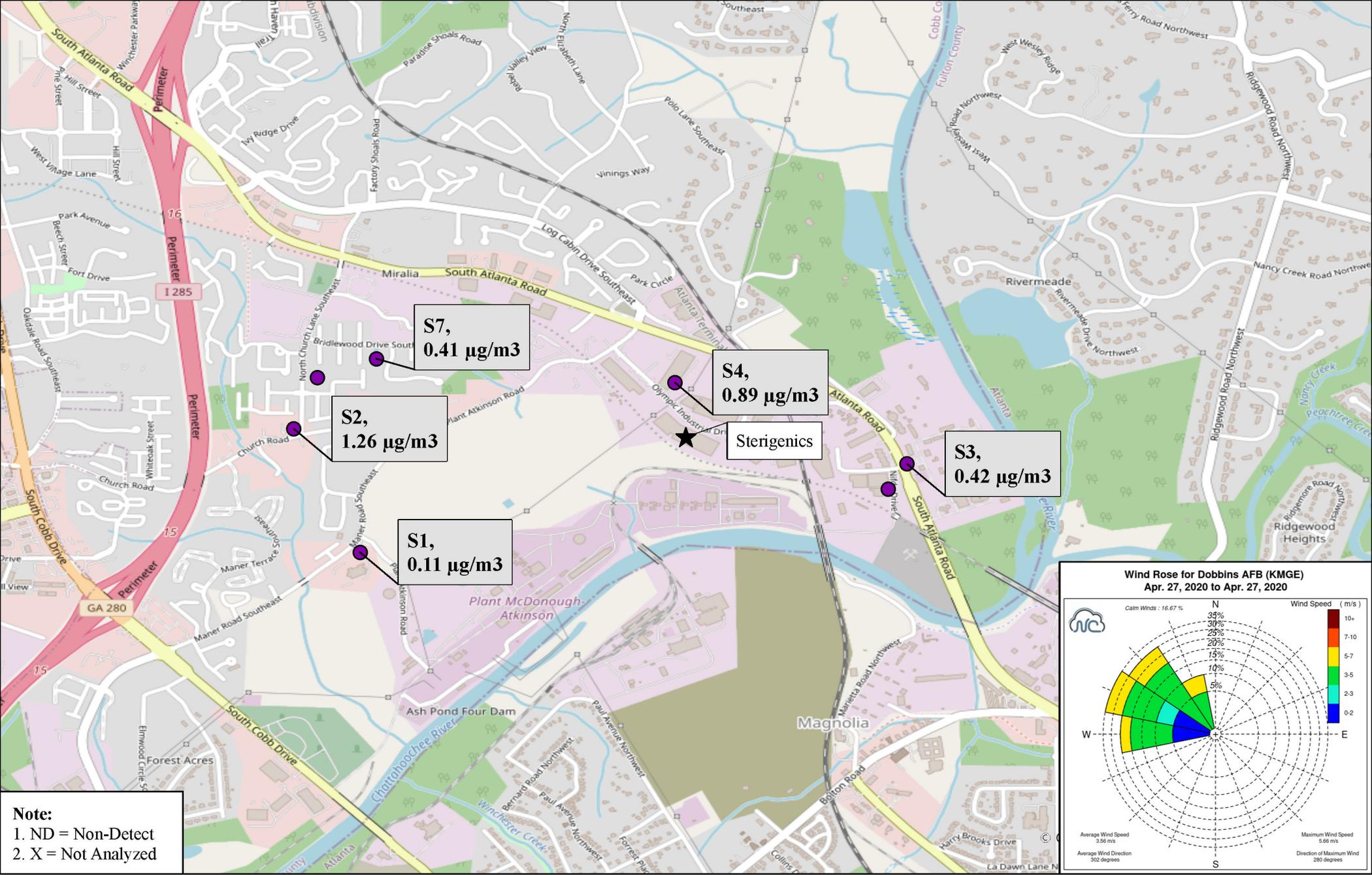


Site ID, Concentration (µg/m³)

Ethylene Oxide Sampling
 Cobb County, GA

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





Site ID, Concentration (µg/m³)

Ethylene Oxide Sampling
 Cobb County, GA

04/27/2020

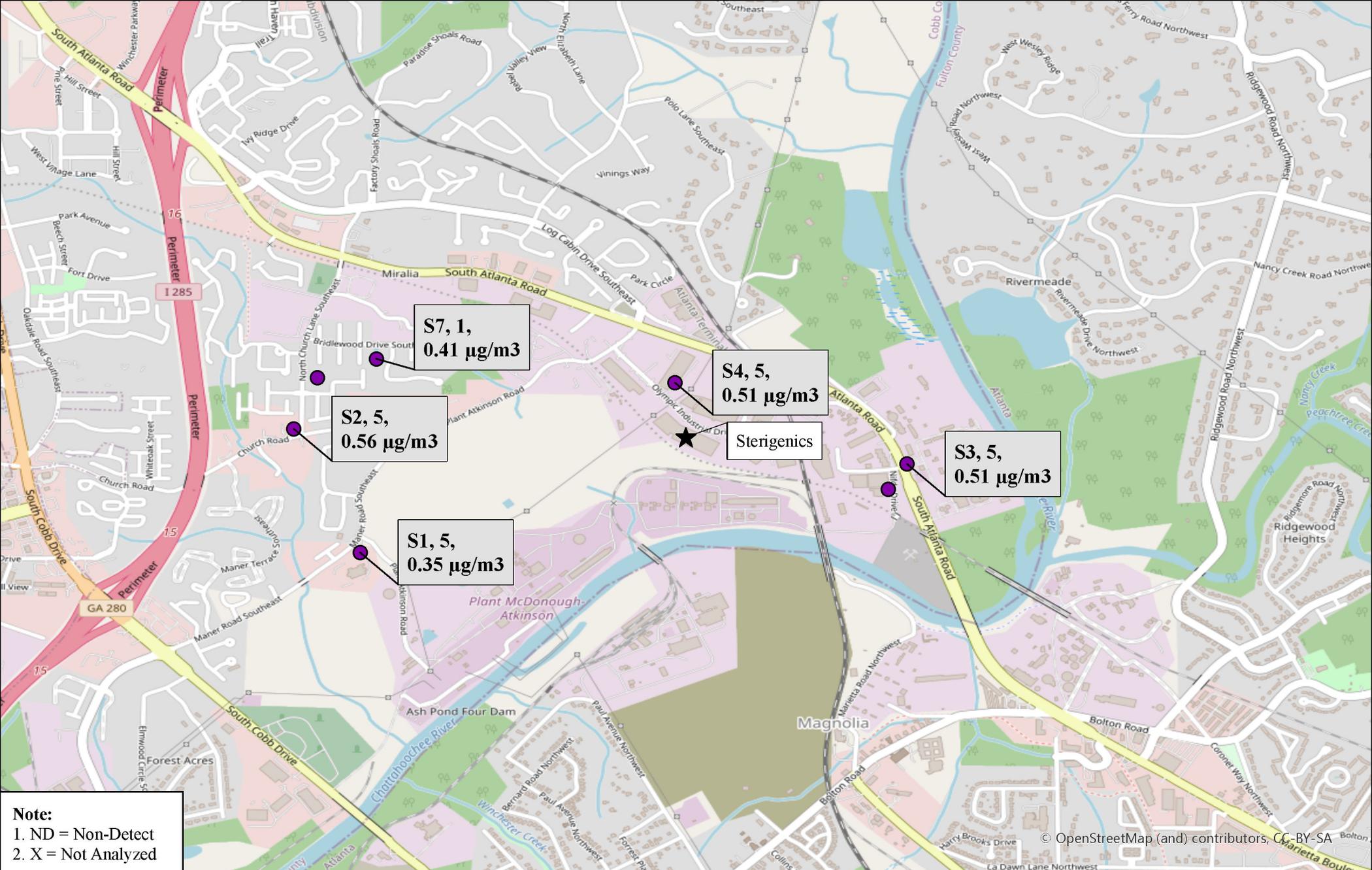
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



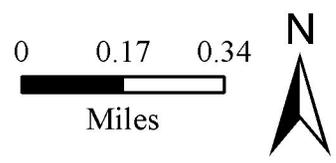
GEORGIA
 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



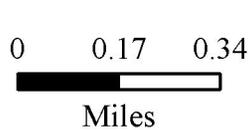
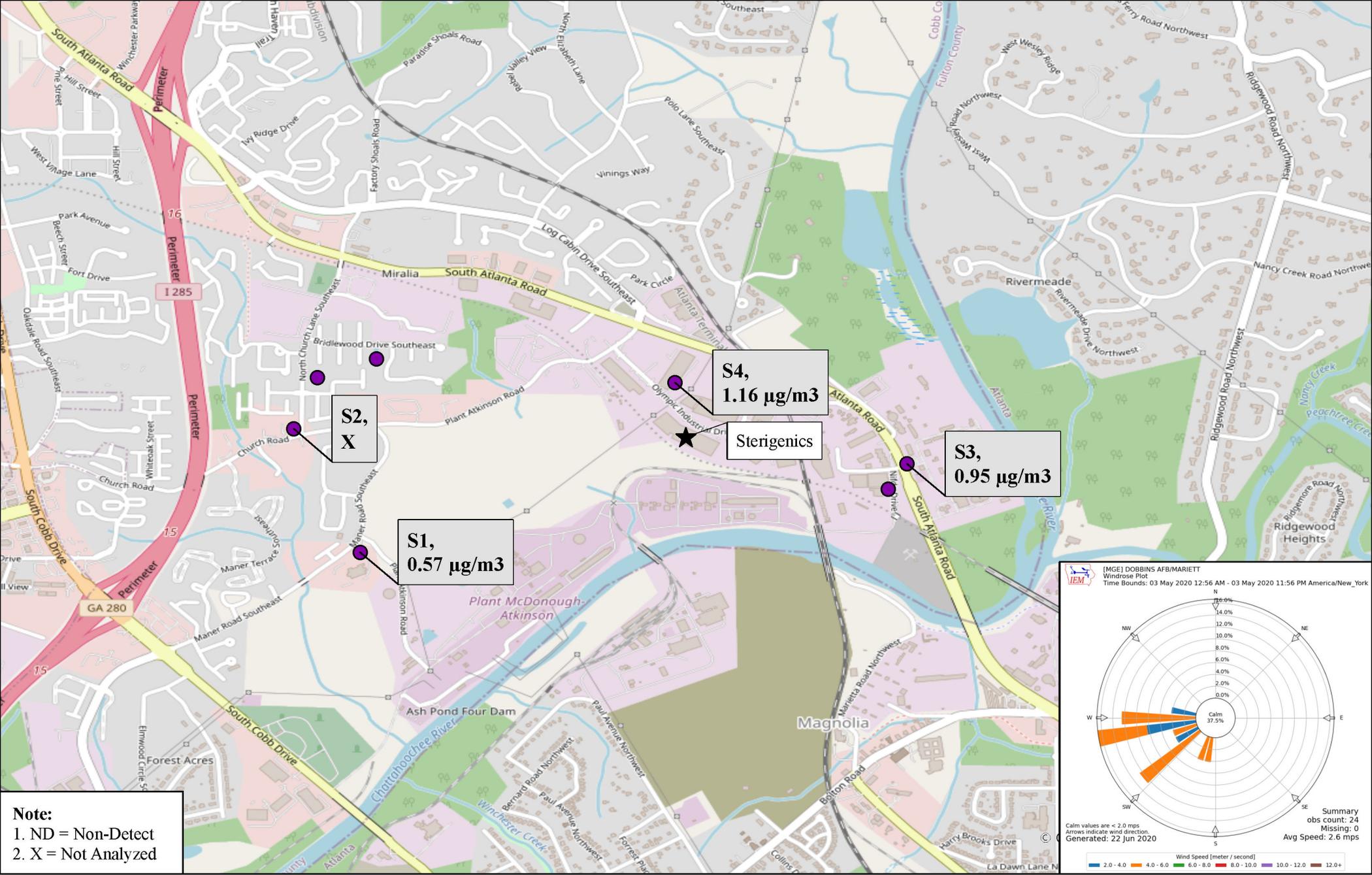
Ethylene Oxide Sampling
 Cobb County, GA

April 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



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





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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