

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

April 4, 2022

MEMORANDUM

To: Karen Hays, Air Branch Chief K4

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Cobb – June 15 – June 27, 2021, Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of June 15 – June 27, 2021, 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 Qualifier code of "3" was given to samples to indicate that integrity of the field data may have been compromised. The Qualifier Code "CE" was given to indicate the sample is not reportable due to a co-eluting compound. The Qualifier code of "ND" was given to samples to indicate that the sample is not reportable due to a co-eluting compound. The Qualifier code of "ND" was given to samples to indicate that the sample is not reportable due to a co-eluting compound. The Qualifier code of "ND" was given to samples to indicate that the sample is not reportable due to a co-eluting compound. The Qualifier code of "ND" was given to samples to indicate that the sample is not reportable due to a co-eluting compound. The Qualifier code of "ND" was given by ERG to indicate that the sample is under the detected, zero reported. The Qualifier code "U" was given by ERG to indicate that the sample is under the detection limit.

| Location | Date | Qualifier | EtO Concentration (ug/m ³) |
|----------|------------|--------------|---|
| S1 | 06/15/2021 | 2, U, CE, ND | 0 |
| S1 | 06/27/2021 | | 0.32 |
| S2 | 06/15/2021 | 2, 3 | 0.13 |
| S2 | 06/27/2021 | 3 | 0.12 |
| S2 QA | 06/15/2021 | 3 | 0.20 |
| S3 | 06/15/2021 | | 0.22 |
| S3 | 06/27/2021 | | 0.15 |
| S4 | 06/15/2021 | | 0.15 |
| S4 | 06/27/2021 | | 0.08 |
| S6 | 06/27/2021 | 2 | 0.26 |
| S7 | 06/27/2021 | 2 | 0.98 |
| | | | |

If you have any questions, please let me know.



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

August 25, 2021

Ms. Jaime Gore GA Ambient Monitoring Program 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 07/01/21 11:17 through 07/23/21 11:11.

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

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify <u>julie.swift@erg.com</u> and delete the report without retaining any copies.

NERG

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: 08/25/21 12:14

 SUBMITTED: 07/01/21 to 07/23/21

 AQS SITE CODE:

 SITE CODE:

 Cobb

ANALYTICAL REPORT FOR SAMPLES

| <u>SampleName</u> | LabNumber | <u>Matrix</u> | <u>Sampled</u> | <u>Received</u> |
|-------------------|------------|---------------|----------------|-----------------|
| Cobb FB | 1070113-01 | Air | 06/24/21 23:59 | 07/01/21 11:17 |
| S1 | 1070113-02 | Air | 06/15/21 23:59 | 07/01/21 11:17 |
| S2 | 1070113-03 | Air | 06/15/21 23:59 | 07/01/21 11:17 |
| S3 | 1070113-04 | Air | 06/15/21 23:59 | 07/01/21 11:17 |
| S4 | 1070113-05 | Air | 06/15/21 23:59 | 07/01/21 11:17 |
| S2-QA | 1070208-01 | Air | 06/15/21 23:59 | 07/02/21 10:21 |
| S1 | 1072322-01 | Air | 06/27/21 23:59 | 07/23/21 11:11 |
| S2 | 1072322-02 | Air | 06/27/21 23:59 | 07/23/21 11:11 |
| S3 | 1072322-03 | Air | 06/27/21 23:59 | 07/23/21 11:11 |
| S4 | 1072322-04 | Air | 06/27/21 23:59 | 07/23/21 11:11 |
| S6 | 1072322-05 | Air | 06/27/21 23:59 | 07/23/21 11:11 |
| S7 | 1072322-06 | Air | 06/27/21 23:59 | 07/23/21 11:11 |

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The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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| NERG | CERTIFICATE OF | ANALYSIS |
|--|---|---------------------------------|
| U.S. Environmental Protection Agency, | Region 4 | FILE #: 4222.00 |
| 4244 International Pkwy, Suite 120 | | REPORTED: 08/25/21 12:14 |
| Atlanta, GA 30354 | | SUBMITTED: 07/01/21 to 07/23/21 |
| ATTN: Ms. Jaime Gore | | AQS SITE CODE: |
| PHONE: (404) 362-4912 FAX: (919) | 541-0516 | SITE CODE: Cobb |
| Description: Cobb FB | Lab ID: 1070113-0 | 01 Sampled: 06/24/21 23:59 |
| Pressure @ Receipt: 30.0 "Hg | Canister #: 111217 | Received: 07/01/21 11:17 |
| Comments: Field Blank | | Analyzed: 07/20/21 14:51 |
| | Air Toxics by EPA Compen- esults MDL | |

ResultsMDLAnalyteppbv ug/m³FlagppbvEthylene oxideNDNDU0.0261

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| NERG | CERTIFICATE OF | ANALYSIS | | |
|--|------------------------------|--------------------|--------------------------|--|
| U.S. Environmental Protection Agency, I | Region 4 | FILE #: 4222.0 | 00 | |
| 4244 International Pkwy, Suite 120 | | REPORTED: 0 | 8/25/21 12:14 | |
| Atlanta, GA 30354 | | SUBMITTED: | 07/01/21 to 07/23/21 | |
| ATTN: Ms. Jaime Gore | | AQS SITE COD |)E: | |
| PHONE: (404) 362-4912 FAX: (919) | 541-0516 | SITE CODE: | Cobb | |
| Description: S1 | Lab ID: 1070113 | 3-02 | Sampled: 06/15/21 23:59 | |
| Pressure @ Receipt: 8.00" Hg | Canister #: A2107 | 0 | Received: 07/01/21 11:17 | |
| Comments: | | | Analyzed: 07/02/21 17:16 | |
| R | Air Toxics by EPA Compension | | 0-15 | |

<u>ppbv</u>

0.0261

<u>Flag</u>

CE, U

ppbv ug/m³

ND

ND

Eastern Research Group

<u>Analyte</u>

Ethylene oxide

| U.S. Environmental Protection Agency, Region 4 | | FILE #: 4222.00 | |
|--|---------------------------|-----------------|--------------------------|
| 4244 International Pkwy, Suite 12 | 20 | REPORTED: (| 08/25/21 12:14 |
| Atlanta, GA 30354 | | SUBMITTED: | 07/01/21 to 07/23/21 |
| ATTN: Ms. Jaime Gore | | AQS SITE CO | DE: |
| PHONE: (404) 362-4912 FAX: | : (919) 541-0516 | SITE CODE: | Cobb |
| Description: S2 | Lab ID: 1070113-0 | 3 | Sampled: 06/15/21 23:59 |
| Pressure @ Receipt: 8.00" Hg | Canister #: 110322 | | Received: 07/01/21 11:17 |
| Comments: | | | Analyzed: 07/09/21 04:13 |
| | Air Toxics by EPA Compen | dium Method | TO-15 |
| | <u>Results</u> MDL | | |
| <u>Analyte</u> | ppbv_ug/m³Flagppbv | <u>I</u> | |

0.0261

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NERG

Ethylene oxide

0.0737

0.13

| 4244 International Pkwy, Suite 120 Atlanta, GA 30354 | | FILE #: 4222.00 | FILE #: 4222.00 | |
|---|--------------------------|-------------------|--------------------------|--|
| | | REPORTED: 08/2 | 25/21 12:14 | |
| | | SUBMITTED: 07 | 7/01/21 to 07/23/21 | |
| | | AQS SITE CODE: | | |
| PHONE: (404) 362-4912 FAX | X: (919) 541-0516 | SITE CODE: | Cobb | |
| Description: S3 | Lab ID: 10701 | 113-04 | Sampled: 06/15/21 23:59 | |
| Pressure @ Receipt: 4.0" Hg | Canister #: 110 | 305 | Received: 07/01/21 11:17 | |
| Comments: | | | Analyzed: 07/02/21 18:16 | |
| | Air Toxics by EPA Com | pendium Method TO | -15 | |
| | <u>Results</u> | <u>MDL</u> | | |
| <u>Analyte</u> | <u>ppbv_ug/m³Flag</u> | <u>ppbv</u> | | |
| Ethylene oxide | 0.123 0.22 0 | 0.0261 | | |

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| U.S. Environmental Protection Agency, Region 4 | | FILE #: 4222.00 | |
|--|-----------------------------|---------------------------------|--|
| 4244 International Pkwy, Suite 12 | 20 | REPORTED: 08/25/21 12:14 | |
| Atlanta, GA 30354 | | SUBMITTED: 07/01/21 to 07/23/21 | |
| ATTN: Ms. Jaime Gore | | AQS SITE CODE: | |
| PHONE: (404) 362-4912 FAX: | (919) 541-0516 | SITE CODE: Cobb | |
| Description: S4 | Lab ID: 1070113-0 | Sampled: 06/15/21 23:59 | |
| Pressure @ Receipt: 6.00" Hg | Canister #: 110257 | Received: 07/01/21 11:17 | |
| Comments: | | Analyzed: 07/02/21 19:17 | |
| | Air Toxics by EPA Compend | ium Method TO-15 | |
| | <u>Results</u> <u>MDL</u> | | |
| <u>Analyte</u> | <u>ppbv ug/m³ Flag ppbv</u> | | |

0.0261

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Ethylene oxide

0.0843

0.15

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| 4244 International Pkwy, Suite 120 Atlanta, GA 30354 | | FILE #: 4222.00 | |
|---|---------------------------|-------------------------------------|--|
| | | REPORTED: 08/25/21 12:14 | |
| | | SUBMITTED: 07/01/21 to 07/23/21 | |
| | | AQS SITE CODE: | |
| PHONE: (404) 362-4912 F. | AX: (919) 541-0516 | SITE CODE: Cobb | |
| Description: S2-QA | Lab ID: 10702 | 08-01 Sampled: 06/15/21 23:59 | |
| Pressure @ Receipt: 7.00 " | 'Hg Canister #: 111 | 219 Received: 07/02/21 10:21 | |
| Comments: | | Analyzed: 07/09/21 11:14 | |
| | Air Toxics by EPA Com | pendium Method TO-15 | |
| | <u>Results</u> | MDL | |
| <u>Analyte</u> | <u>ppbv_ug/m³Flag</u> j | <u>opbv</u> | |
| Ethylene oxide | 0.112 0.20 0 | .0261 | |

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| 4244 International Pkwy, Suite 120 Atlanta, GA 30354 | | FILE #: 4222.00 | FILE #: 4222.00 | |
|---|--------------------------|-------------------|--------------------------|--|
| | | REPORTED: 08/ | /25/21 12:14 | |
| | | SUBMITTED: 0 | 07/01/21 to 07/23/21 | |
| | | AQS SITE CODE | E: | |
| PHONE: (404) 362-4912 FA | X: (919) 541-0516 | SITE CODE: | Cobb | |
| Description: S1 | Lab ID: 107 | /2322-01 | Sampled: 06/27/21 23:59 | |
| Pressure @ Receipt: 7.50" H | lg Canister #: A | 21000 | Received: 07/23/21 11:11 | |
| Comments: | | | Analyzed: 07/24/21 00:07 | |
| | Air Toxics by EPA Co | mpendium Method T | 0-15 | |
| | <u>Results</u> | <u>MDL</u> | | |
| <u>Analyte</u> | <u>ppbv_ug/m³Flag</u> | <u>ppbv</u> | | |
| Ethylene oxide | 0.175 0.32 | 0.0261 | | |

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V.S. Environmental Protection Agency, Region 4FILE #: 4222.004244 International Pkwy, Suite 120REPORTED: 08/25/21 12:14Atlanta, GA 30354SUBMITTED: 07/01/21 to 07/23/21ATTN: Ms. Jaime GoreAQS SITE CODE:PHONE: (404) 362-4912FAX: (919) 541-0516SITE CODE:Cobb

| Description: S2 | La | b ID: 1 | 072322-02 | Sampled: 06/27/21 23:59 |
|------------------------------|-------------------|----------------|-----------------|--------------------------|
| Pressure @ Receipt: 7.50" Hg | Ca | nister #: | 19279 | Received: 07/23/21 11:11 |
| Comments: | | | | Analyzed: 07/24/21 01:08 |
| | Air Toxics | by EPA C | Compendium Meth | nod TO-15 |
| | <u>Results</u> | | <u>MDL</u> | |
| Analyte | <u>ppbv_ug/m³</u> | <u>Flag</u> | <u>ppbv</u> | |
| Ethylene oxide | 0.0683 0.12 | | 0.0261 | |

| | | FILE #: 4222.00 | |
|----------------------------|---------------------------|---------------------------------|--|
| | | REPORTED: 08/25/21 12:14 | |
| Atlanta, GA 30354 | | SUBMITTED: 07/01/21 to 07/23/21 | |
| ATTN: Ms. Jaime Gore | | AQS SITE CODE: | |
| PHONE: (404) 362-4912 F | AX: (919) 541-0516 | SITE CODE: Cobb | |
| Description: S3 | Lab ID: 10723 | 22-03 Sampled: 06/27/21 23:59 | |
| Pressure @ Receipt: 6.0" H | g Canister #: 1882 | Received: 07/23/21 11:11 | |
| Comments: | | Analyzed: 07/24/21 02:08 | |
| | Air Toxics by EPA Com | pendium Method TO-15 | |
| | | <u>MDL</u> | |
| <u>Analyte</u> | <u>ppbv_ug/m³Flagp</u> | p <u>bv</u> | |
| Ethylene oxide | 0.0808 0.15 0. | 0261 | |

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| 4244 International Pkwy, Suite 120 Atlanta, GA 30354 | | FILE #: 42 | FILE #: 4222.00 | |
|---|---------------------------|-------------------|--------------------------------|--|
| | | REPORTEI | D: 08/25/21 12:14 | |
| | | SUBMITTE | D: 07/01/21 to 07/23/21 | |
| | | AQS SITE | CODE: | |
| PHONE: (404) 362-4912 FA | AX: (919) 541-0516 | SITE CODE | E: Cobb | |
| Description: S4 | Lab ID: | 1072322-04 | Sampled: 06/27/21 23:59 | |
| Pressure @ Receipt: 6.00" | Hg Canister # | t: 33490 | Received: 07/23/21 11:11 | |
| Comments: | | | Analyzed: 07/24/21 03:09 | |
| | | A Compendium Meth | od TO-15 | |
| | <u>Results</u> | MDL | | |
| <u>Analyte</u> | <u>ppbv_ug/m³Flag</u> | ppbv | | |
| Ethylene oxide | 0.0430 0.08 | 0.0261 | | |

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| U.S. Environmental Protection Agency, Region 4 | | FILE #: 4222.00 | | | |
|--|---------------------------|---------------------------------|------|--|--|
| 4244 International Pkwy, Suite | 120 | REPORTED: 08/25/21 12:14 | | | |
| Atlanta, GA 30354 | | SUBMITTED: 07/01/21 to 07/23/21 | | | |
| ATTN: Ms. Jaime Gore | | AQS SITE CODE: | | | |
| PHONE: (404) 362-4912 FAX | X: (919) 541-0516 | SITE CODE: Cobb | | | |
| Description: S6 | Lab ID: 10723 | 22-05 Sampled: 06/27/21 23 | 3:59 | | |
| Pressure @ Receipt: 8.00" H | g Canister #: 3353 | 2 Received: 07/23/21 1 | 1:11 | | |
| Comments: | | Analyzed: 07/24/21 0 | 4:10 | | |
| | Air Toxics by EPA Comp | | | | |
| | | | | | |
| <u>Analyte</u> | <u>ppbv_ug/m³Flagp</u> | pbv | | | |
| Ethylene oxide | 0.141 0.26 0. | 0261 | | | |

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| U.S. Environmental Protection Agency, Region 4 | | FILE #: 4222.00 | | | |
|--|-----------------------------|------------------------------------|--|--|--|
| 4244 International Pkwy, Suite | ÷120 | REPORTED: 08/25/21 12:14 | | | |
| Atlanta, GA 30354 | | SUBMITTED: 07/01/21 to 07/23/21 | | | |
| ATTN: Ms. Jaime Gore | | AQS SITE CODE: | | | |
| PHONE: (404) 362-4912 FA | AX: (919) 541-0516 | SITE CODE: Cobb | | | |
| Description: S7 | Lab ID: 1072322 | 2-06 Sampled: 06/27/21 23:59 | | | |
| Pressure @ Receipt: 7.50 " | Hg Canister #: A2110 | 05 Received: 07/23/21 11:11 | | | |
| Comments: | | Analyzed: 07/24/21 05:10 | | | |
| | Air Toxics by EPA Compe | endium Method TO-15 | | | |
| | | IDL . | | | |
| <u>Analyte</u> | <u>ppbv_ug/m³Flagpp</u> | <u>pbv</u> | | | |
| Ethylene oxide | 0.545 0.98 0.02 | 261 | | | |

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U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

NERG

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00 REPORTED: 08/25/21 12:14 SUBMITTED: 07/01/21 to 07/23/21 AQS SITE CODE:

SITE CODE: Cobb

| Analyte | Result | Units | Source Result | RPD | RPD Limit | Notes |
|--|---------|---------------|---------------------|--------------------|--------------|-------|
| Air Toxics by EPA Compendium Batch B1G0203 - Summa Canister | | - Quality Con | trol | | | |
| Blank (B1G0203-BLK1) | | | Prepared & Analyzed | 1: 07/02/21 | | |
| Ethylene oxide | ND | ppbv | | | | U |
| Batch B1G0811 - Summa Canister | Prep | | | | | |
| Blank (B1G0811-BLK1) | | | Prepared & Analyzed | 1: 07/08/21 | | |
| Ethylene oxide | ND | ppbv | | | | U |
| Duplicate (B1G0811-DUP3) | Source: | : 1070113-03 | Prepared: 06/15/21 | Analyzed: 07/09/21 | | |
| Ethylene oxide | 0.0731 | ppbv | 0.07 | 0.817 | 25 | |
| Duplicate (B1G0811-DUP4) | Source: | : 1070208-01 | Prepared: 06/15/21 | Analyzed: 07/09/21 | | |
| Ethylene oxide | 0.114 | ppbv | 0.11 | 1.78 | 25 | |
| Batch B1G1308 - Summa Canister | ' Prep | | | | | |
| Blank (B1G1308-BLK1) | | | Prepared: 07/13/21 | Analyzed: 07/20/21 | | |
| Ethylene oxide | ND | ppbv | | | | U |
| Batch B1G2304 - Summa Canister | Prep | | | | | |
| Blank (B1G2304-BLK1) | | | Prepared & Analyzed | d: 07/23/21 | | |
| Ethylene oxide | ND | ppbv | | | | U |
| | | | | | | |

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| U.S. Environmental Protection Agency, Region 4 | FILE #: 4222.00 |
|---|---------------------------------|
| 4244 International Pkwy, Suite 120 | REPORTED: 08/25/21 12:14 |
| Atlanta, GA 30354 | SUBMITTED: 07/01/21 to 07/23/21 |
| ATTN: Ms. Jaime Gore | AQS SITE CODE: |
| PHONE: (404) 362-4912 FAX: (919) 541-0516 | SITE CODE: Cobb |
| | |

| Analyte | Result | Units | % Difference | Limit (%) | Notes |
|--|-------------|---------------|--------------------|--------------|-------|
| Air Toxics by EPA Compendium M Sequence 2107010 | ethod TO-15 | - Quality Cor | ntrol | | |
| Calibration Check (2107010-CCV1) | | ſ | Prepared & Analyze | vd· 07/02/21 | |
| Ethylene oxide | 2.17 | ppbv | -13.3 | 30.00 | |
| Sequence 2107022 | | | | | |
| Calibration Check (2107022-CCV1) | | I | Prepared & Analyze | ed: 07/08/21 | |
| Ethylene oxide | 2.20 | ppbv | -11.9 | 30.00 | |
| Sequence 2107033 | | | | | |
| Calibration Check (2107033-CCV1) | | I | Prepared & Analyze | ed: 07/20/21 | |
| Ethylene oxide | 2.36 | ppbv | -5.6 | 30.00 | |
| Sequence 2107070 | | | | | |
| Calibration Check (2107070-CCV1) | | I | Prepared & Analyze | ed: 07/23/21 | |
| Ethylene oxide | 2.44 | ppbv | -2.3 | 30.00 | |

NERG

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U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

NERG

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00 REPORTED: 08/25/21 12:14 SUBMITTED: 07/01/21 to 07/23/21 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

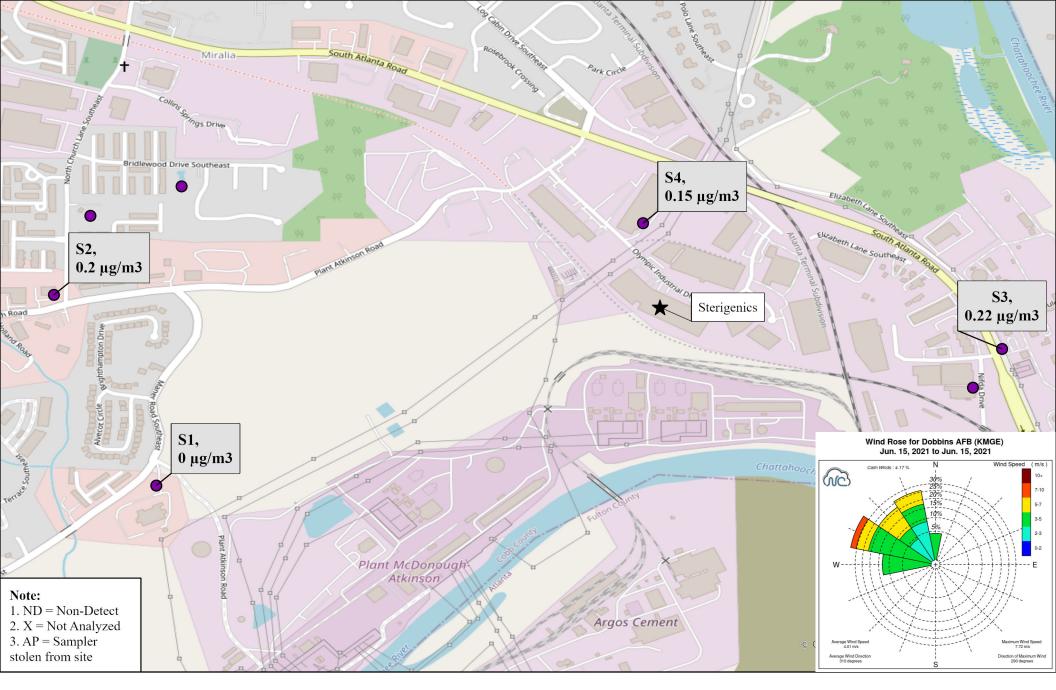
CE Not reportable due to a co-eluting compound.

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.

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Ethylene Oxide Sampling Cobb County, GA

June 15, 2021 Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group



ENVIRONMENTAL PROTECTION DIVISION





Ethylene Oxide Sampling Cobb County, GA

Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group



ENVIRONMENTAL PROTECTION DIVISION



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

Miles

June 2021 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



ENVIRONMENTAL PROTECTION DIVISION