



**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

May 15, 2020

**MEMORANDUM**

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: General Coffee March 4 - March 28, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected by the Ambient Monitoring Program at our General Coffee monitoring station March 4- March 28, 2020. Each of the samples were sent to Eastern Research Group (ERG) for analysis. The samples listed as AF indicate that the sample was scheduled but not collected. On previous memos, this was listed as an X rather than AF, but we have changed the code to be more consistent with our other documentation. Please note that ERG is now providing values for levels below the detection limit.

| Location       | Date       | Qualifier | EtO Concentration (ug/m <sup>3</sup> ) |
|----------------|------------|-----------|--|
| General Coffee | 03/04/2020 |           | 0.47                                   |
| General Coffee | 03/16/2020 |           | AF                                     |
| General Coffee | 03/22/2020 |           | 0.14                                   |
| General Coffee | 03/28/2020 |           | 0.12                                   |

If you have any questions, please let me know.

DGO/do



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

April 15, 2020

Ms. Jaime Gore  
U.S. Environmental Protection Agency, Region 4  
4244 International Pkwy, Suite 120  
Atlanta, GA 30354  
Project Name: General Coffee

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 03/13/20 12:24 through 04/02/20 11:23.

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:** 04/15/20 15:57

**SUBMITTED:** 03/13/20 to 04/02/20

**AQS SITE CODE:**

**SITE CODE:** General Coffee

## ANALYTICAL REPORT FOR SAMPLES

| <u>SampleName</u> | <u>LabNumber</u> | <u>Matrix</u> | <u>Sampled</u> | <u>Received</u> |
|-------------------|------------------|---------------|----------------|-----------------|
| General Coffee    | 0031322-01       | Air           | 03/04/20 23:59 | 03/13/20 12:24  |
| General Coffee    | 0040215-01       | Air           | 03/22/20 23:59 | 04/02/20 11:23  |
| General Coffee    | 0040215-02       | Air           | 03/28/20 23:59 | 04/02/20 11:23  |



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AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0031322-01

Sampled: 03/04/20 23:59

Pressure @ Receipt: 19.75 psig

Canister #: SAT056

Received: 03/13/20 12:24

Comments:

Analyzed: 03/24/20 06:52

## 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 | 0.258          | 0.47                    |             | 0.0285      |



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REPORTED: 04/15/20 15:57

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AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0040215-01

Sampled: 03/22/20 23:59

Pressure @ Receipt: 19.50 psig

Canister #: 5035

Received: 04/02/20 11:23

Comments:

Analyzed: 04/04/20 05:18

## 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/m<sup>3</sup></u> |             | <u>ppbv</u> |
| Ethylene oxide | 0.0790         | 0.14                    |             | 0.0285      |



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AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0040215-02

Sampled: 03/28/20 23:59

Pressure @ Receipt: 19.75 psig

Canister #: A21072

Received: 04/02/20 11:23

Comments:

Analyzed: 04/04/20 06:13

## 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 | 0.0642         | 0.12                    |             | 0.0285      |



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AQS SITE CODE:

SITE CODE: General Coffee

| Analyte | Result | Units | Source Result | RPD | RPD Limit | Notes |
|---------|--------|-------|---------------|-----|-----------|-------|
|---------|--------|-------|---------------|-----|-----------|-------|

## Air Toxics by EPA Compendium Method TO-15 - Quality Control

*Batch B0C2305 - Summa Canister Prep*

**Blank (B0C2305-BLK1)**

Prepared: 03/09/20 Analyzed: 03/23/20

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

*Batch B0D0302 - Summa Canister Prep*

**Blank (B0D0302-BLK1)**

Prepared & Analyzed: 04/03/20

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



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FILE #: 4222.00

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AQS SITE CODE:

SITE CODE: General Coffee

| Analyte | Result | Units | % Difference | Limit (%) | Notes |
|---------|--------|-------|--------------|-----------|-------|
|---------|--------|-------|--------------|-----------|-------|

## Air Toxics by EPA Compendium Method TO-15 - Quality Control

### Sequence 2003049

#### Calibration Check (2003049-CCV1)

Prepared & Analyzed: 03/23/20

|                |      |      |      |       |  |
|----------------|------|------|------|-------|--|
| Ethylene oxide | 2.72 | ppbv | 10.0 | 30.00 |  |
|----------------|------|------|------|-------|--|

### Sequence 2004013

#### Calibration Check (2004013-CCV1)

Prepared & Analyzed: 04/03/20

|                |      |      |      |       |  |
|----------------|------|------|------|-------|--|
| Ethylene oxide | 2.45 | ppbv | -0.8 | 30.00 |  |
|----------------|------|------|------|-------|--|





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## 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.