



**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

July 21, 2021

**MEMORANDUM**

To: Karen Hays, Air Branch Chief *KH*

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: General Coffee January 22 -February 27, 2021- Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected by the Ambient Monitoring Program at our General Coffee monitoring station January 22 - February 27, 2021. 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 “LK” was given by ERG to indicate that the sample may be biased high. The Qualifier code of “U” was given by ERG to indicate that the sample was under the detection limit. The Qualifier code of “ND” was given to samples to indicate that no value was detected and a concentration of zero was reported. The sample listed as AN indicates that sample was voided due to a machine malfunction. The sample listed as AF indicates that sample was scheduled but not collected. 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	1/22/2021	2, LK	0.99
General Coffee	2/03/2021		AF
General Coffee	2/09/2021		AN
General Coffee	2/15/2021		AF
General Coffee	2/21/2021		0.19
General Coffee	2/27/2021	2, ND, U	0.00

If you have any questions, please let me know.

DGO/do



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

April 16, 2021

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 01/29/21 10:34 through 03/04/21 14:29.

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](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:** 04/16/21 14:45  
**SUBMITTED:** 01/29/21 to 03/04/21  
**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	1012901-02	Air	01/22/21 23:59	01/29/21 10:34
General Coffee	1030427-01	Air	02/21/21 23:59	03/04/21 14:29
General Coffee	1030427-02	Air	02/27/21 23:59	03/04/21 14:29



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AQS SITE CODE:

SITE CODE: General Coffee

<b>Description:</b> General Coffee	<b>Lab ID:</b> 1012901-02	<b>Sampled:</b> 01/22/21 23:59
<b>Pressure @ Receipt:</b> 20.50 psig	<b>Canister #:</b> SAT101	<b>Received:</b> 01/29/21 10:34
<b>Comments:</b>		<b>Analyzed:</b> 02/18/21 02:59

## 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	0.546	0.99	LK	0.0285



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REPORTED: 04/16/21 14:45

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AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 1030427-01

Sampled: 02/21/21 23:59

Pressure @ Receipt: 18.75 psig

Canister #: SAT109

Received: 03/04/21 14:29

Comments:

Analyzed: 03/05/21 06:00

## 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	0.103	0.19		0.0261



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AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 1030427-02

Sampled: 02/27/21 23:59

Pressure @ Receipt: 19.25 psig

Canister #: 19647

Received: 03/04/21 14:29

Comments:

Analyzed: 03/05/21 07:00

## 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	ND	ND	U	0.0261



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REPORTED: 04/16/21 14:45

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AQS SITE CODE:

SITE CODE: General Coffee

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

Batch B1C0408 - Summa Canister Prep

### Blank (B1C0408-BLK1)

Prepared & Analyzed: 03/04/21

Ethylene oxide	ND	ppbv				U
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Analyte	Result	Units	% Difference	Limit (%)	Notes
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## Air Toxics by EPA Compendium Method TO-15 - Quality Control

*Sequence 2102036*

**Calibration Check (2102036-CCV1)**

Prepared & Analyzed: 02/17/21

Ethylene oxide	2.91	ppbv	20.6	30.00	
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*Sequence 2103021*

**Calibration Check (2103021-CCV1)**

Prepared & Analyzed: 03/04/21

Ethylene oxide	2.48	ppbv	-0.9	30.00	
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## Notes and Definitions

U Under Detection Limit  
D-F Duplicate exceeds DQO criteria.  
ND Analyte NOT DETECTED  
NR Not Reported  
MDL Method Detection Limit  
RPD Relative Percent Difference  
LK Analyte Identified: Reported Value May Be Biased High

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.