



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 January 28 – February 21, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected by the Ambient Monitoring Program at our General Coffee monitoring station January 28 – February 21, 2020. Each of the samples were sent to Eastern Research Group (ERG) for analysis. Please note that ERG is now providing values for levels below the detection limit. The Qualifier code of "LK" was given by ERG to indicate that the sample may be biased high. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
General Coffee	01/28/2020		0.35
General Coffee	02/09/2020		.080
General Coffee	02/21/2020	LK	.080

If you have any questions, please let me know.

DGO/do



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

March 24, 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 02/10/20 12:46 through 03/02/20 13:30.

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

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 julie.swift@erg.com and delete the report without retaining any copies.



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: 03/24/20 12:44

SUBMITTED: 02/10/20 to 03/02/20

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	0021033-01	Air	01/28/20 23:59	02/10/20 12:46
General Coffee	0021823-01	Air	02/09/20 23:59	02/18/20 15:06
General Coffee	0030237-01	Air	02/21/20 23:59	03/02/20 13:30



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: 03/24/20 12:44

SUBMITTED: 02/10/20 to 03/02/20

AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0021033-01

Sampled: 01/28/20 23:59

Pressure @ Receipt: 21.50 psig

Canister #: SAT168

Received: 02/10/20 12:46

Comments:

Analyzed: 02/21/20 21:01

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	0.192	0.35		0.0250



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: 03/24/20 12:44

SUBMITTED: 02/10/20 to 03/02/20

AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0021823-01

Sampled: 02/09/20 23:59

Pressure @ Receipt: 22.25 psig

Canister #: A21054

Received: 02/18/20 15:06

Comments:

Analyzed: 02/25/20 15:04

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	0.0446	0.08		0.0250



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: 03/24/20 12:44

SUBMITTED: 02/10/20 to 03/02/20

AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0030237-01

Sampled: 02/21/20 23:59

Pressure @ Receipt: 22.00 psig

Canister #: A21035

Received: 03/02/20 13:30

Comments:

Analyzed: 03/14/20 06:23

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0421	0.08	LK	0.0250



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: 03/24/20 12:44

SUBMITTED: 02/10/20 to 03/02/20

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 BOB2006 - Summa Canister Prep

Blank (BOB2006-BLK1)

Prepared: 02/14/20 Analyzed: 02/21/20

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

Batch BOB2408 - Summa Canister Prep

Blank (BOB2408-BLK1)

Prepared: 02/14/20 Analyzed: 02/24/20

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

Batch BOC0910 - Summa Canister Prep

Blank (BOC0910-BLK1)

Prepared: 03/09/20 Analyzed: 03/13/20

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: 03/24/20 12:44

SUBMITTED: 02/10/20 to 03/02/20

AQS SITE CODE:

SITE CODE: General Coffee

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

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

Sequence 2002044

Calibration Check (2002044-CCV1)

Prepared: 02/20/20 Analyzed: 02/21/20

Ethylene oxide	2.66	ppbv	6.3	30.00
----------------	------	------	-----	-------

Sequence 2002051

Calibration Check (2002051-CCV1)

Prepared: 02/19/20 Analyzed: 02/24/20

Ethylene oxide	2.76	ppbv	10.6	30.00
----------------	------	------	------	-------

Sequence 2003022

Calibration Check (2003022-CCV1)

Prepared: 03/09/20 Analyzed: 03/13/20

Ethylene oxide	2.50	ppbv	1.0	30.00
----------------	------	------	-----	-------



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: 03/24/20 12:44

SUBMITTED: 02/10/20 to 03/02/20

AQS SITE CODE:

SITE CODE: General Coffee

Notes and Definitions

U	Under Detection Limit
LK	Analyte identified; Reported value may be biased high.
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.