



December 13, 2019

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*
Through: Dika Kuoh, Assistant Branch Chief
From: DeAnna Oser, Ambient Monitoring Program Manager
RE: General Coffee September 19 – October 24, 2019 Revised Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of September 19 through October 24, 2019 by the Ambient Monitoring Program at the General Coffee monitoring station. All samples were sent for analysis to Eastern Research Group (ERG), a contract laboratory used both by Georgia EPD and US EPA. ERG has revised the sampling results previously reported to Georgia EPD upon request by the US EPA (reasons provided in the attached December 3, 2019 email from Ken Mitchell, Acting Director of the Air and Radiation Division at US EPA Region 4). The values below reflect the revised concentrations for the EtO project to date at the General Coffee monitoring station.

Date	EtO Concentration (ug/m3)
09/19/2019	0.62
10/12/2019	0.06
10/24/2019	0.07

If you have any questions, please let me know.

DGO/do



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

December 02, 2019

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 09/27/19 12:15 through 11/01/19 11:15.

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: 12/02/19 10:57
SUBMITTED: 09/27/19 to 11/01/19
AQ5 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	9092734-01	Air	09/19/19 23:59	09/27/19 12:15
General Coffee	9101529-01	Air	10/12/19 23:59	10/15/19 11:01
General Coffee	9110120-01	Air	10/24/19 23:59	11/01/19 11:15



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 AQS SITE CODE:
 SITE CODE: General Coffee

Description: General Coffee	Lab ID: 9092734-01	Sampled: 09/19/19 23:59
Pressure @ Receipt: 17.75" Hg	Canister #: N4075	Received: 09/27/19 12:15
Comments:		Analyzed: 10/03/19 22:45

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	0.342	0.62		0.0250



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 AQS SITE CODE:
 SITE CODE: General Coffee

Description: General Coffee	Lab ID: 9101529-01	Sampled: 10/12/19 23:59
Pressure @ Receipt: 18.00 psig	Canister #: 2767	Received: 10/15/19 11:01
Comments:		Analyzed: 10/15/19 16:26

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	0.0329	0.06		0.0250



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 AQS SITE CODE:
 SITE CODE: General Coffee

Description: General Coffee	Lab ID: 9110120-01	Sampled: 10/24/19 23:59
Pressure @ Receipt: 18.75 psig	Canister #: A21071	Received: 11/01/19 11:15
Comments:		Analyzed: 11/06/19 08:08

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	0.0415	0.07		0.0250



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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						
<i>Batch B9J0305 - Summa Canister Prep</i>						
Blank (B9J0305-BLK1)			Prepared: 09/26/19 Analyzed: 10/03/19			
Ethylene oxide	ND	ppbv				U
<i>Batch B9J1507 - Summa Canister Prep</i>						
Blank (B9J1507-BLK1)			Prepared: 10/09/19 Analyzed: 10/15/19			
Ethylene oxide	ND	ppbv				U
<i>Batch B9K0506 - Summa Canister Prep</i>						
Blank (B9K0506-BLK1)			Prepared: 10/21/19 Analyzed: 11/05/19			
Ethylene oxide	ND	ppbv				U



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FILE #: 4222.00
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 SUBMITTED: 09/27/19 to 11/01/19
 AQS SITE CODE:
 SITE CODE: General Coffee

Analyte	Result	Units	% Difference	Limit (%)	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 1910010

Calibration Check (1910010-CCV1)

Prepared & Analyzed: 10/03/19

Ethylene oxide	2.26	ppbv	-9.5	30.00
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Sequence 1910035

Calibration Check (1910035-CCV1)

Prepared & Analyzed: 10/15/19

Ethylene oxide	1.97	ppbv	-19.9	30.00
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Sequence 1911008

Calibration Check (1911008-CCV1)

Prepared & Analyzed: 11/05/19

Ethylene oxide	2.26	ppbv	-9.4	30.00
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FILE #: 4222.00
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SUBMITTED: 09/27/19 to 11/01/19
AQS SITE CODE:
SITE CODE: General Coffee

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.