



GEORGIA
DEPARTMENT OF NATURAL RESOURCES

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

February 6, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb December 5-17, 2019 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in December 2019. Each of the samples were sent to Eastern Research Group (ERG) for analysis.

The Qualifier code of "LK" was given by ERG to indicate that the sample may be biased high. The qualifier code "U" was given by ERG to indicate that the sample is under the detection limit. Please note that ERG is now providing values for levels below the detection limit.

Date	Qualifier	EtO Concentration (ug/m3)
12/05/2019	LK	0.16
12/08/2019	LK	0.05
12/11/2019	U	0.03
12/14/2019	LK	0.22
12/17/2019	LK	0.15

If you have any questions, please let me know.

DGO/do



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

January 07, 2020

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

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 12/12/19 11:05 through 12/20/19 12:39.

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 #: 4022.00

REPORTED: 01/07/20 14:32

SUBMITTED: 12/12/19 to 12/20/19

AQS SITE CODE:

SITE CODE: GA EtO

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
South Dekalb	9121208-01	Air	12/05/19 23:59	12/12/19 11:05
South Dekalb	9121208-02	Air	12/08/19 23:59	12/12/19 11:05
South Dekalb	9121842-01	Air	12/11/19 23:59	12/18/19 12:19
South Dekalb	9121842-02	Air	12/14/19 23:59	12/18/19 12:19
South Dekalb	9122018-01	Air	12/17/19 23:59	12/20/19 12:39



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AQS SITE CODE:

SITE CODE: GA EIO

Description: South Dekalb

Lab ID: 9121208-01

Sampled: 12/05/19 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 0049

Received: 12/12/19 11:05

Comments:

Analyzed: 12/20/19 04:49

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	0.0899	0.16	LK	0.0250



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AQS SITE CODE:

SITE CODE: GA EIO

Description: South Dekalb

Lab ID: 9121208-02

Sampled: 12/08/19 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: A21054

Received: 12/12/19 11:05

Comments:

Analyzed: 12/20/19 05:53

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0267	0.05	LK	0.0250



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REPORTED: 01/07/20 14:32

SUBMITTED: 12/12/19 to 12/20/19

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 9121842-01

Sampled: 12/11/19 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 18864

Received: 12/18/19 12:19

Comments:

Analyzed: 12/27/19 23:04

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	0.0186	0.03	U	0.0250



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AQS SITE CODE:

SITE CODE: GA EIO

Description: South Dekalb

Lab ID: 9121842-02

Sampled: 12/14/19 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: SAT075

Received: 12/18/19 12:19

Comments:

Analyzed: 12/28/19 00:08

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	0.120	0.22	LK	0.0250



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REPORTED: 01/07/20 14:32

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AQS SITE CODE:

SITE CODE: GA E10

Description: South Dekalb	Lab ID: 9122018-01	Sampled: 12/17/19 23:59
Pressure @ Receipt: 6.00" Hg	Canister #: 5015	Received: 12/20/19 12:39
Comments:		Analyzed: 12/29/19 12:02

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	0.0847	0.15	LK	0.0250



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REPORTED: 01/07/20 14:32

SUBMITTED: 12/12/19 to 12/20/19

AQS SITE CODE:

SITE CODE: GA EtO

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

Batch B9L1707 - Summa Canister Prep

Blank (B9L1707-BLK1)

Prepared: 12/17/19 Analyzed: 12/19/19

Ethylene oxide	ND	ppbv				U
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Batch B9L2703 - Summa Canister Prep

Blank (B9L2703-BLK1)

Prepared & Analyzed: 12/27/19

Ethylene oxide	ND	ppbv				U
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Batch B9L2903 - Summa Canister Prep

Blank (B9L2903-BLK1)

Prepared & Analyzed: 12/29/19

Ethylene oxide	ND	ppbv				U
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Duplicate (B9L2903-DUP1)

Source: 9122018-01

Prepared: 12/17/19 Analyzed: 12/29/19

Ethylene oxide	0.0845	ppbv	0.08	0.236	25	LK
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REPORTED: 01/07/20 14:32

SUBMITTED: 12/12/19 to 12/20/19

AQS SITE CODE:

SITE CODE: GA EIO

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

Sequence 1912038

Calibration Check (1912038-CCV1)

Prepared: 12/17/19 Analyzed: 12/19/19

Ethylene oxide	2.51	ppbv	0.5	30.00
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Sequence 1912058

Calibration Check (1912058-CCV1)

Prepared & Analyzed: 12/27/19

Ethylene oxide	2.26	ppbv	-9.7	30.00
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Sequence 1912062

Calibration Check (1912062-CCV1)

Prepared & Analyzed: 12/29/19

Ethylene oxide	2.07	ppbv	-17.3	30.00
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AQS SITE CODE:
SITE CODE: GA EtO

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.