

May 18, 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 March 28, 2020 – April 03, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in March 2020 and April 2020. Each of the samples were sent to Eastern Research Group (ERG) for analysis.

The Qualifier code of “2” is applied to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
South DeKalb	03/28/2020	2	0.37
South DeKalb	04/03/2020		1.00
South DeKalb QA	04/03/2020	2	0.47

If you have any questions, please let me know.

DGO/do



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

April 30, 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 04/08/20 11:03 through 04/10/20 10:46.

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: 04/30/20 11:47

SUBMITTED: 04/08/20 to 04/10/20

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	0040815-01	Air	03/28/20 23:59	04/08/20 11:03
South Dekalb	0041004-01	Air	04/03/20 23:59	04/10/20 10:46
South Dekalb QA	0041004-02	Air	04/03/20 23:59	04/10/20 10:46



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0040815-01

Sampled: 03/28/20 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 0044

Received: 04/08/20 11:03

Comments:

Analyzed: 04/09/20 23:44

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	0.204	0.37		0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 0041004-02

Sampled: 04/03/20 23:59

Pressure @ Receipt: 0.00 psig

Canister #: SAT042

Received: 04/10/20 10:46

Comments: QA

Analyzed: 04/18/20 05:28

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	0.259	0.47		0.0285



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 AQS SITE CODE:
 SITE CODE: GA EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B0D0805 - Summa Canister Prep</i>						
Blank (B0D0805-BLK1)			Prepared: 04/08/20 Analyzed: 04/09/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0D1701 - Summa Canister Prep</i>						
Blank (B0D1701-BLK1)			Prepared & Analyzed: 04/17/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0D1701-DUP1)			Source: 0041004-01 Prepared: 04/03/20 Analyzed: 04/18/20			
Ethylene oxide	0.522	ppbv	0.55	5.64	25	
Duplicate (B0D1701-DUP2)			Source: 0041004-02 Prepared: 04/03/20 Analyzed: 04/18/20			
Ethylene oxide	0.257	ppbv	0.26	1.05	25	



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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 2004021

Calibration Check (2004021-CCV1)

Prepared: 04/08/20 Analyzed: 04/09/20

Ethylene oxide	2.36	ppbv	-4.4	30.00
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Sequence 2004040

Calibration Check (2004040-CCV1)

Prepared & Analyzed: 04/17/20

Ethylene oxide	2.58	ppbv	3.2	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.