



# 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

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: South DeKalb August 13 – October 30, 2019 Revised Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of August 13 through October 30, 2019 by the Ambient Monitoring Program at the South DeKalb 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 South DeKalb monitoring station.

The code LK indicates that the concentration may be biased high. The samples listed as X indicate that the sample was not collected properly. The sample listed as QA is a sample taken side by side during the same time period to compare the precision of the measurement.

Date	Qualifier	EtO Concentration (ug/m3)
8/13/2019		0.10
8/16/2019		0.11
8/16/2019	QA, LK	0.20
9/04/2019		0.10
9/19/2019		0.09
9/20/2019		0.16
9/24/2019		0.35
9/26/2019		0.33
9/30/2019		0.24
10/03/2019	LK	0.29
10/06/2019		0.14
10/12/2019	LK	0.33

Mrs. Hays  
December 16, 2019  
Page 1 of 2

10/19/2019		0.10
10/24/2019		X
10/27/2019		X
10/30/2019		0.13

If you have any questions, please let me know.

DGO/do



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

December 04, 2019

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 08/22/19 10:10.

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](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 #: 4022.00  
REPORTED: 12/04/19 11:28  
SUBMITTED: 08/22/19  
AQ5 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 Primary	9082209-01	Air	08/16/19 23:59	08/22/19 10:10
South Dekalb Co-lo	9082209-02	Air	08/16/19 23:59	08/22/19 10:10
South Dekalb Primary	9082209-03	Air	08/13/19 23:59	08/22/19 10:10



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 AQS SITE CODE:  
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<b>Description:</b> South Dekalb Primary	<b>Lab ID:</b> 9082209-01	<b>Sampled:</b> 08/16/19 23:59
<b>Pressure @ Receipt:</b> 12.50 psig	<b>Canister #:</b> S/N00013	<b>Received:</b> 08/22/19 10:10
<b>Comments:</b> C1		<b>Analyzed:</b> 08/22/19 22:12

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### 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	0.0617	0.11		0.0250



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 AQS SITE CODE:  
 SITE CODE: GA EtO

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<b>Description:</b> South Dekalb Co-lo	<b>Lab ID:</b> 9082209-02	<b>Sampled:</b> 08/16/19 23:59
<b>Pressure @ Receipt:</b> 14.50 psig	<b>Canister #:</b> S/N00012	<b>Received:</b> 08/22/19 10:10
<b>Comments:</b> C2		<b>Analyzed:</b> 08/22/19 23:48

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### 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	0.108	0.20	LK	0.0250



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 AQS SITE CODE:  
 SITE CODE: GA EtO

**Description:** South Dekalb Primary  
**Pressure @ Receipt:** 14.00 psig  
**Comments:**

**Lab ID:** 9082209-03  
**Canister #:** 114308

**Sampled:** 08/13/19 23:59  
**Received:** 08/22/19 10:10  
**Analyzed:** 08/23/19 01:24

### 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	0.0530	0.10		0.0250



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FILE #: 4022.00  
 REPORTED: 12/04/19 11:28  
 SUBMITTED: 08/22/19  
 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 B9H2202 - Summa Canister Prep

**Blank (B9H2202-BLK1)**

Prepared: 08/19/19 Analyzed: 08/22/19

Ethylene oxide	ND	ppbv				U
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**Duplicate (B9H2202-DUP1)**

Source: 9082209-01

Prepared: 08/16/19 Analyzed: 08/22/19

Ethylene oxide	0.0554	ppbv	0.06	10.8	25	
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**Duplicate (B9H2202-DUP2)**

Source: 9082209-02

Prepared: 08/16/19 Analyzed: 08/23/19

Ethylene oxide	0.120	ppbv	0.11	10.4	25	LK
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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 1908062

#### Calibration Check (1908062-CCV1)

Prepared & Analyzed: 08/22/19

Ethylene oxide	2.63	ppbv	5.1	30.00	
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SUBMITTED: 08/22/19  
AQS SITE CODE:  
SITE CODE: GA EIO

### 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.