



November 4, 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 October 1 – 6, 2019 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of October 1 - 6 by the Ambient Monitoring Program at the South DeKalb monitoring station. Each of the samples were sent to Eastern Research Group (ERG) for analysis. Samples listed in the table below as ND were reported below the method detection limit of 0.0452 ug/m³.

Date	EtO Concentration (ug/m ³)
10/3/2019	0.32
10/6/2019	ND

DGO/do



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

October 11, 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 10/09/19 11:53.

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: 10/11/19 15:14
SUBMITTED: 10/09/19
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	9100923-01	Air	10/03/19 23:59	10/09/19 11:53
South Dekalb	9100923-02	Air	10/06/19 23:59	10/09/19 11:53



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 AQS SITE CODE:
 SITE CODE: GA EtO

Description: South Dekalb **Lab ID:** 9100923-01 **Sampled:** 10/03/19 23:59
Pressure @ Receipt: 4.00" Hg **Canister #:** SAT099 **Received:** 10/09/19 11:53
Comments: **Analyzed:** 10/11/19 03:44

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	0.179	0.32		0.0250 *

* 0.0250 ppbv = 0.0452 ug/m³

PP verified
10/18/19



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FILE #: 4022.00
 REPORTED: 10/11/19 15:14
 SUBMITTED: 10/09/19
 AQS SITE CODE:
 SITE CODE: GA EIO

Description: South Dekalb **Lab ID:** 9100923-02 **Sampled:** 10/06/19 23:59
Pressure @ Receipt: 4.00" Hg **Canister #:** SAT158 **Received:** 10/09/19 11:53
Comments: **Analyzed:** 10/11/19 04:32

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	ND	ND	U	0.0250



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FILE #: 4022.00

REPORTED: 10/11/19 15:14

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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 B9J1004 - Summa Canister Prep

Blank (B9J1004-BLK1)

Prepared: 09/18/19 Analyzed: 10/10/19

Ethylene oxide	ND	ppbv				U
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Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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FILE #: 4022.00
 REPORTED: 10/11/19 15:14
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 AQS SITE CODE:
 SITE CODE: GA EtO

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

Sequence 1910027

Calibration Check (1910027-CCV1)

Prepared & Analyzed: 10/10/19

Ethylene oxide	1.79	ppbv	-27.1	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.