



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 2, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb September 30-October 30, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in September and October 2020. The Qualifier code of “2” was given to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. The Qualifier code of “LK” was given by ERG to indicate that the sample may be biased high. The Qualifier code of “D-F” was given by ERG to indicate that the duplicate exceeds Data Quality Objectives (DQO) criteria. Each of the samples were sent to Eastern Research Group (ERG) for analysis.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
South DeKalb	09/30/2020	LK, 2	0.60
South DeKalb	10/06/2020	LK, D-F	0.53
South DeKalb QA	10/06/2020	LK, D-F, 2	0.70
South DeKalb	10/12/2020		0.24
South DeKalb	10/18/2020	2	0.17
South DeKalb	10/24/2020	2	0.70
South DeKalb	10/30/2020	LK, 2	1.05

If you have any questions, please let me know.

DGO/do



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

December 17, 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 10/08/20 13:36 through 11/11/20 11:58.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). 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: 12/17/20 11:00

SUBMITTED: 10/08/20 to 11/11/20

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	0100835-01	Air	09/30/20 23:59	10/08/20 13:36
South Dekalb	0101531-01	Air	10/06/20 23:59	10/15/20 11:24
South Dekalb QA	0101531-02	Air	10/06/20 23:59	10/15/20 11:24
South Dekalb	0101606-01	Air	10/12/20 23:59	10/16/20 12:05
South Dekalb	0102917-01	Air	10/18/20 23:59	10/29/20 12:14
South Dekalb	0103007-01	Air	10/24/20 23:59	10/30/20 11:13
South Dekalb	0111124-01	Air	10/30/20 23:59	11/11/20 11:58



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb	Lab ID: 0100835-01	Sampled: 09/30/20 23:59
Pressure @ Receipt: 0.00" Hg	Canister #: SAT021	Received: 10/08/20 13:36
Comments: Received at ambient pressure		Analyzed: 10/16/20 20:25

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	0.330	0.60	LK	0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 0101531-02

Sampled: 10/06/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 5066

Received: 10/15/20 11:24

Comments:

Analyzed: 10/17/20 05:33

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	0.388	0.70	D-F, LK	0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0101606-01

Sampled: 10/12/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 18876

Received: 10/16/20 12:05

Comments:

Analyzed: 11/02/20 23:40

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	0.134	0.24		0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb	Lab ID: 0102917-01	Sampled: 10/18/20 23:59
Pressure @ Receipt: 0.00" Hg	Canister #: 114344	Received: 10/29/20 12:14
Comments: Received at ambient pressure		Analyzed: 11/09/20 19:49

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	0.0941	0.17		0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb	Lab ID: 0103007-01	Sampled: 10/24/20 23:59
Pressure @ Receipt: 10.00" Hg	Canister #: A21089	Received: 10/30/20 11:13
Comments:		Analyzed: 11/10/20 02:13

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	0.387	0.70		0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0111124-01

Sampled: 10/30/20 23:59

Pressure @ Receipt: 0" Hg

Canister #: SAT028

Received: 11/11/20 11:58

Comments: Received at ambient

Analyzed: 11/24/20 03:58

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	0.581	1.05	LK	0.0285



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FILE #: 4022.00
 REPORTED: 12/17/20 11:00
 SUBMITTED: 10/08/20 to 11/11/20
 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 B0J1604 - Summa Canister Prep

Blank (B0J1604-BLK1)

Prepared & Analyzed: 10/16/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0J1604-DUP1)**Source: 0101531-01**

Prepared: 10/06/20 Analyzed: 10/17/20

Ethylene oxide	0.326	ppbv	0.30	10.2	25	LK
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Duplicate (B0J1604-DUP2)**Source: 0101531-02**

Prepared: 10/06/20 Analyzed: 10/17/20

Ethylene oxide	0.399	ppbv	0.39	2.67	25	LK
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Batch B0K0204 - Summa Canister Prep

Blank (B0K0204-BLK1)

Prepared & Analyzed: 11/02/20

Ethylene oxide	ND	ppbv				U
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Batch B0K0906 - Summa Canister Prep

Blank (B0K0906-BLK1)

Prepared & Analyzed: 11/09/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0K0906-DUP2)**Source: 0103007-01**

Prepared: 10/24/20 Analyzed: 11/10/20

Ethylene oxide	0.430	ppbv	0.39	10.5	25	
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Batch B0K2310 - Summa Canister Prep

Blank (B0K2310-BLK1)

Prepared & Analyzed: 11/23/20

Ethylene oxide	ND	ppbv				U
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FILE #: 4022.00
REPORTED: 12/17/20 11:00
SUBMITTED: 10/08/20 to 11/11/20
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 2010035

Calibration Check (2010035-CCV1)

Prepared & Analyzed: 10/16/20

Ethylene oxide	3.08	ppbv	24.6	30.00
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Sequence 2011002

Calibration Check (2011002-CCV1)

Prepared & Analyzed: 11/02/20

Ethylene oxide	2.73	ppbv	9.2	30.00
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Sequence 2011016

Calibration Check (2011016-CCV1)

Prepared & Analyzed: 11/09/20

Ethylene oxide	2.94	ppbv	17.6	30.00
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Sequence 2011048

Calibration Check (2011048-CCV1)

Prepared & Analyzed: 11/23/20

Ethylene oxide	2.79	ppbv	13.0	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.
D-F Duplicate exceeds DQO criteria.
ND Analyte NOT DETECTED
NR Not Reported
MDL Method Detection Limit
RPD Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.