



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

June 1, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*
Through: Dika Kuoh, Assistant Branch Chief
From: DeAnna Oser, Ambient Monitoring Program Manager
RE: Cobb April 9, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of April 9, 2020 by the Ambient Monitoring Program in the Cobb area to characterize the EtO concentration. Each of the samples were sent to Eastern Research Group (ERG) for analysis. 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. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
S1	04/09/20		0.44
S2	04/09/20		0.54
S3	04/09/20	2	0.19
S4	04/09/20		0.68
S4 QA	04/09/20	2	0.72

If you have any questions, please let me know.

DGO/do



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

May 19, 2020

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

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 04/16/20 12:56.

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 #: 4222.00

REPORTED: 05/19/20 11:09

SUBMITTED: 04/16/20

AQS SITE CODE:

SITE CODE: Cobb

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
S1	0041620-01	Air	04/09/20 23:59	04/16/20 12:56
S2	0041620-02	Air	04/09/20 23:59	04/16/20 12:56
S3	0041620-03	Air	04/09/20 23:59	04/16/20 12:56
S4	0041620-04	Air	04/09/20 23:59	04/16/20 12:56
S4 QA	0041620-05	Air	04/09/20 23:59	04/16/20 12:56



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FILE #: 4222.00

REPORTED: 05/19/20 11:09

SUBMITTED: 04/16/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0041620-01

Sampled: 04/09/20 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: SAT082

Received: 04/16/20 12:56

Comments:

Analyzed: 04/27/20 14:56

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	0.244	0.44		0.0285



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REPORTED: 05/19/20 11:09

SUBMITTED: 04/16/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0041620-02

Sampled: 04/09/20 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 5023

Received: 04/16/20 12:56

Comments:

Analyzed: 04/28/20 05:41

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	0.301	0.54		0.0285



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FILE #: 4222.00

REPORTED: 05/19/20 11:09

SUBMITTED: 04/16/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0041620-03

Sampled: 04/09/20 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 19282

Received: 04/16/20 12:56

Comments:

Analyzed: 04/28/20 06:36

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	0.107	0.19		0.0285



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FILE #: 4222.00

REPORTED: 05/19/20 11:09

SUBMITTED: 04/16/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4	Lab ID: 0041620-04	Sampled: 04/09/20 23:59
Pressure @ Receipt: 2.50" Hg	Canister #: A21017	Received: 04/16/20 12:56
Comments:		Analyzed: 04/27/20 15:51

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	0.378	0.68		0.0285



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FILE #: 4222.00

REPORTED: 05/19/20 11:09

SUBMITTED: 04/16/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4 QA

Lab ID: 0041620-05

Sampled: 04/09/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: SAT081

Received: 04/16/20 12:56

Comments:

Analyzed: 04/27/20 17:41

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	0.398	0.72		0.0285



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FILE #: 4222.00

REPORTED: 05/19/20 11:09

SUBMITTED: 04/16/20

AQS SITE CODE:

SITE CODE: Cobb

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

Batch B0D2706 - Summa Canister Prep

Blank (B0D2706-BLK1)

Prepared: 04/09/20 Analyzed: 04/27/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0D2706-DUP1)

Source: 0041620-04

Prepared: 04/09/20 Analyzed: 04/27/20

Ethylene oxide	0.380	ppbv	0.38	0.369	25	
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Duplicate (B0D2706-DUP2)

Source: 0041620-05

Prepared: 04/09/20 Analyzed: 04/27/20

Ethylene oxide	0.392	ppbv	0.40	1.42	25	
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FILE #: 4222.00

REPORTED: 05/19/20 11:09

SUBMITTED: 04/16/20

AQS SITE CODE:

SITE CODE: Cobb

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

Sequence 2004060

Calibration Check (2004060-CCV1)

Prepared & Analyzed: 04/27/20

Ethylene oxide	2.90	ppbv	15.8	30.00	
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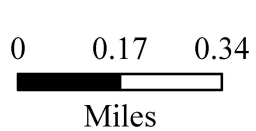
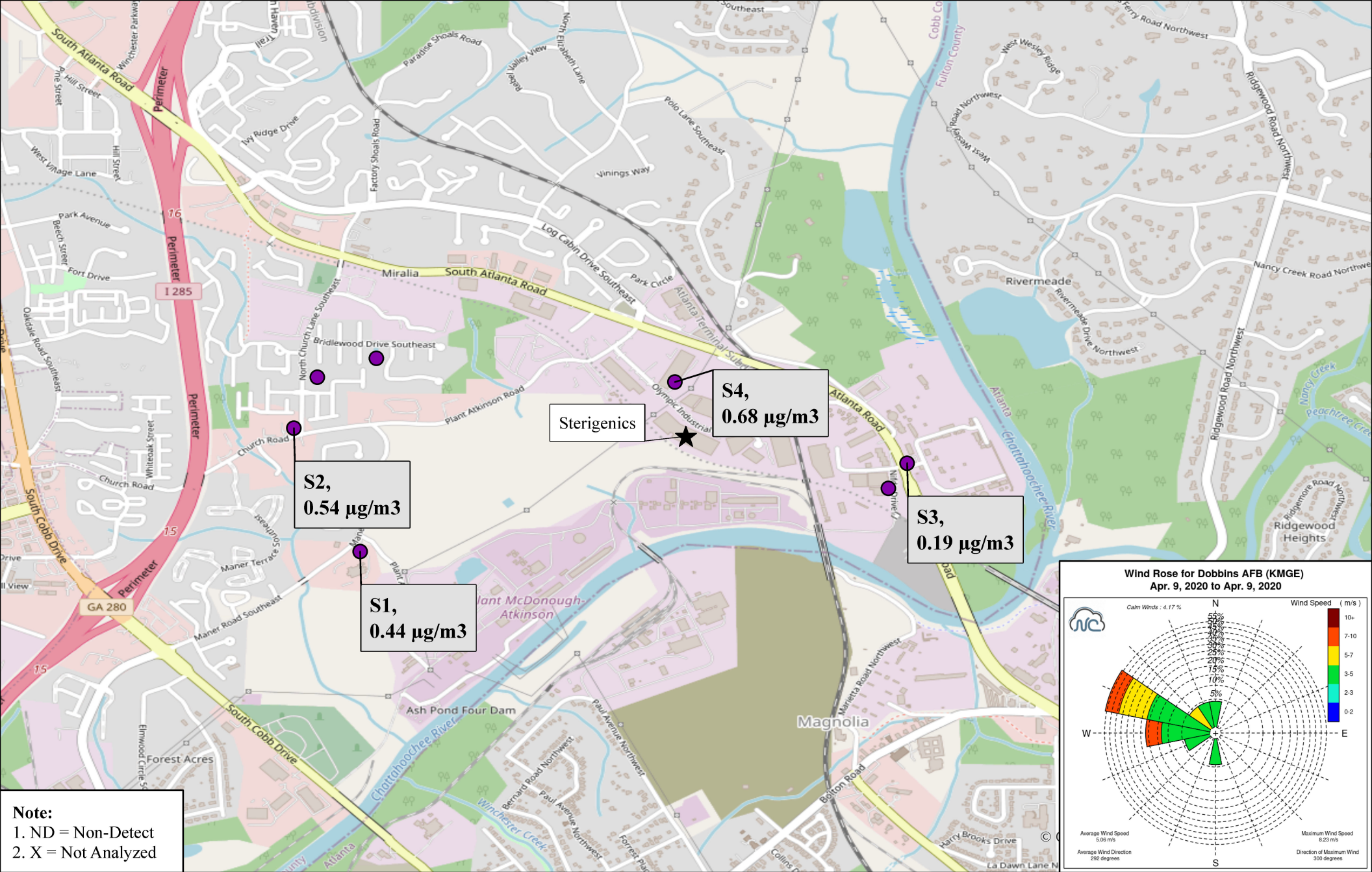
AQS SITE CODE:

SITE CODE: Cobb

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.



Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

Ethylene Oxide Sampling
 Cobb County, GA

04/09/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



GEORGIA
 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION