

July 19, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Cobb - January 22 - February 27, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of January 22 - February 27, 2021, 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 "3" was given to samples to indicate that integrity of the field data may have been compromised. 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 D-F indicates that the duplicate exceeds DQO criteria. The Qualifier code of "LK" was given by ERG to indicate that the sample may be biased high. The Qualifier code of "ND" was given to samples to indicate that no value detected, zero reported. The Qualifier code "U" was given by ERG to indicate that the sample is under the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
S1	1/22/2021	2, U, ND	0.00
S1	1/28/2021		0.50
S1	2/03/2021	2	0.39
S1	2/09/2021		0.08
S1	2/15/2021		0.30
S1	2/21/2021	2	0.28
S1	2/27/2021	2	0.13
S1 QA	2/03/2021	2	0.08
S2	1/22/2021	2, 3 U, ND	0.00
S2	1/28/2021	3, U, ND	0.00
S2	2/03/2021	2, 3, U, ND	0.00
S2	2/09/2021	3	0.06
S2	2/15/2021	3, LK	0.14
S2	2/21/2021	2, 3, LK	0.12
S2	2/27/2021	3	0.07
S2 QA	2/09/2021	2, 3, LK	0.37
S3	1/22/2021	2, U, ND	0.00

Location		Date		Qualifier		EtO Concentration (ug/m ³)
S3		1/28/2021		U, ND		0.00
S3		2/03/2021		U, ND		0.00
S3		2/09/2021				0.29
S3		2/15/2021		2, D-F		0.50
S3		2/21/2021				0.56
S3		2/27/2021		LK		0.75
S3 QA		2/15/2021		D-F, LK		0.37
S4		1/22/2021		LK		0.54
S4		1/28/2021		U, ND		0.00
S4		2/03/2021				0.07
S4		2/09/2021				0.24
S4		2/15/2021				0.38
S4		2/21/2021		2, LK		0.29
S4		2/27/2021				0.20
S4 QA		2/21/2021		2		0.37
S4 QA		2/27/2021		2		0.29
S7 SA		1/28/2021		2, U, ND		0.00
S7 SA		2/27/2021				0.09

If you have any questions, please let me know.

DGO/do



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

April 16, 2021

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 02/03/21 11:16 through 03/11/21 13:09.

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

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.



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: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

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	1020318-01	Air	01/22/21 23:59	02/03/21 11:16
S2	1020318-02	Air	01/22/21 23:59	02/03/21 11:16
S3	1020318-03	Air	01/22/21 23:59	02/03/21 11:16
S4	1020318-04	Air	01/22/21 23:59	02/03/21 11:16
Cobb FB	1020318-05	Air	01/27/21 00:00	02/03/21 11:16
S1	1020424-01	Air	01/28/21 23:59	02/04/21 11:25
S2	1020424-02	Air	01/28/21 23:59	02/04/21 11:25
S3	1020424-03	Air	01/28/21 23:59	02/04/21 11:25
S4	1020424-04	Air	01/28/21 23:59	02/04/21 11:25
S7-SA	1020424-05	Air	01/28/21 23:59	02/04/21 11:25
S1	1021021-01	Air	02/03/21 23:59	02/10/21 12:05
S1 QA	1021021-02	Air	02/03/21 23:59	02/10/21 12:05
S2	1021021-03	Air	02/03/21 23:59	02/10/21 12:05
S3	1021021-04	Air	02/03/21 23:59	02/10/21 12:05
S4	1021021-05	Air	02/03/21 23:59	02/10/21 12:05
S1	1021828-01	Air	02/09/21 23:59	02/18/21 11:09
S2	1021828-02	Air	02/09/21 23:59	02/18/21 11:09
S2-QA	1021828-03	Air	02/09/21 23:59	02/18/21 11:09
S3	1021828-04	Air	02/09/21 23:59	02/18/21 11:09
S4	1021828-05	Air	02/09/21 23:59	02/18/21 11:09
S1	1030328-01	Air	02/15/21 23:59	03/03/21 13:52
S2	1030328-02	Air	02/15/21 23:59	03/03/21 13:52

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 #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

S3	1030328-03	Air	02/15/21 23:59	03/03/21 13:52
S3-QA	1030328-04	Air	02/15/21 23:59	03/03/21 13:52
S4	1030328-05	Air	02/15/21 23:59	03/03/21 13:52
S1	1030328-06	Air	02/21/21 23:59	03/03/21 13:52
S2	1030328-07	Air	02/21/21 23:59	03/03/21 13:52
S3	1030328-08	Air	02/21/21 23:59	03/03/21 13:52
S4-QA	1030328-09	Air	02/21/21 23:59	03/03/21 13:52
S4	1030328-10	Air	02/21/21 23:59	03/03/21 13:52
S1	1031031-01	Air	02/27/21 23:59	03/10/21 14:19
S4-QA Void	1031031-02	Air	02/27/21 23:59	03/10/21 14:19
S2	1031120-01	Air	02/27/21 23:59	03/11/21 13:09
S3	1031120-02	Air	02/27/21 23:59	03/11/21 13:09
S4	1031120-03	Air	02/27/21 23:59	03/11/21 13:09
S7-SA	1031120-04	Air	02/27/21 23:59	03/11/21 13:09



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 1020318-01

Sampled: 01/22/21 23:59

Pressure @ Receipt: 0.00 "Hg

Canister #: 19277

Received: 02/03/21 11:16

Comments: Received at ambient pressure

Analyzed: 02/18/21 16:37

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	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1020318-02

Sampled: 01/22/21 23:59

Pressure @ Receipt: 0.00 "Hg

Canister #: A21034

Received: 02/03/21 11:16

Comments: Received at ambient pressure

Analyzed: 02/18/21 17:36

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	ND	ND	U	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1020318-03

Sampled: 01/22/21 23:59

Pressure @ Receipt: 0.00 "Hg

Canister #: 19658

Received: 02/03/21 11:16

Comments: Received at ambient pressure

Analyzed: 02/18/21 18:36

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	ND	ND	U	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 1020318-04

Sampled: 01/22/21 23:59

Pressure @ Receipt: 3.50 "Hg

Canister #: 5040

Received: 02/03/21 11:16

Comments:

Analyzed: 02/18/21 19:36

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	0.297	0.54	LK	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: Cobb FB

Lab ID: 1020318-05

Sampled: 01/27/21 00:00

Pressure @ Receipt: 29.50" Hg

Canister #: 110314

Received: 02/03/21 11:16

Comments: Field Blank

Analyzed: 02/23/21 17:14

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	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 1020424-01

Sampled: 01/28/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: SAT058

Received: 02/04/21 11:25

Comments: Received at ambient pressure

Analyzed: 02/19/21 02:34

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	0.276	0.50		0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1020424-02

Sampled: 01/28/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: SAT151

Received: 02/04/21 11:25

Comments: Received at ambient pressure

Analyzed: 02/19/21 03:33

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	ND	ND	U	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1020424-03

Sampled: 01/28/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: 35119

Received: 02/04/21 11:25

Comments: Received at ambient pressure

Analyzed: 02/23/21 21:13

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	ND	ND	U	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 1020424-04

Sampled: 01/28/21 23:59

Pressure @ Receipt: 2.00 "Hg

Canister #: A21109

Received: 02/04/21 11:25

Comments:

Analyzed: 02/23/21 22:13

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	ND	ND	U	0.0285



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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: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S7-SA

Lab ID: 1020424-05

Sampled: 01/28/21 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 114386

Received: 02/04/21 11:25

Comments: Received at ambient pressure

Analyzed: 02/23/21 23:12

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	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 1021021-01

Sampled: 02/03/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: SAT069

Received: 02/10/21 12:05

Comments: Received at ambient pressure

Analyzed: 02/25/21 18:40

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	0.214	0.39		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S1 QA

Lab ID: 1021021-02

Sampled: 02/03/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: 114336

Received: 02/10/21 12:05

Comments: Received at ambient pressure

Analyzed: 02/25/21 20:42

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	0.0470	0.08		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1021021-03

Sampled: 02/03/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: 114344

Received: 02/10/21 12:05

Comments: Received at ambient pressure

Analyzed: 02/25/21 22:43

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	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1021021-04

Sampled: 02/03/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: 110335

Received: 02/10/21 12:05

Comments: Received at ambient pressure

Analyzed: 02/25/21 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	ND	ND	U	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 1021021-05

Sampled: 02/03/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 110322

Received: 02/10/21 12:05

Comments:

Analyzed: 02/26/21 00:45

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	0.0387	0.07		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 1021828-01

Sampled: 02/09/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 9570

Received: 02/18/21 11:09

Comments:

Analyzed: 02/27/21 00:03

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	0.0456	0.08		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1021828-02

Sampled: 02/09/21 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 111211

Received: 02/18/21 11:09

Comments:

Analyzed: 02/27/21 01:04

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	0.0349	0.06		0.0261



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: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2-QA

Lab ID: 1021828-03

Sampled: 02/09/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: SAT122

Received: 02/18/21 11:09

Comments: Received at ambient pressure

Analyzed: 02/27/21 03:05

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	0.207	0.37	LK	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1021828-04

Sampled: 02/09/21 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: SAT076

Received: 02/18/21 11:09

Comments:

Analyzed: 02/27/21 05:07

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	0.161	0.29		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 1021828-05

Sampled: 02/09/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 213

Received: 02/18/21 11:09

Comments:

Analyzed: 02/27/21 06:08

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	0.130	0.24		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 1030328-01

Sampled: 02/15/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: SAT184

Received: 03/03/21 13:52

Comments: Received at ambient

Analyzed: 03/04/21 01:41

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	0.166	0.30		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1030328-02

Sampled: 02/15/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: AZ41

Received: 03/03/21 13:52

Comments: Received at ambient

Analyzed: 03/04/21 02:42

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	0.0793	0.14	LK	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1030328-03

Sampled: 02/15/21 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: SAT114

Received: 03/03/21 13:52

Comments: Received at ambient

Analyzed: 03/04/21 03:42

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	0.278	0.50	D-F	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3-QA

Lab ID: 1030328-04

Sampled: 02/15/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: SAT150

Received: 03/03/21 13:52

Comments: Received at ambient

Analyzed: 03/04/21 05:44

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	D-F, LK	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 1030328-05

Sampled: 02/15/21 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: SAT145

Received: 03/03/21 13:52

Comments: Received at ambient

Analyzed: 03/04/21 07:45

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	0.208	0.38		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 1030328-06

Sampled: 02/21/21 23:59

Pressure @ Receipt: 0.0 psig

Canister #: SAT039

Received: 03/03/21 13:52

Comments:

Analyzed: 03/04/21 21:55

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	0.155	0.28		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1030328-07

Sampled: 02/21/21 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT028

Received: 03/03/21 13:52

Comments:

Analyzed: 03/04/21 22:56

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	0.0637	0.12	LK	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1030328-08

Sampled: 02/21/21 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: SAT075

Received: 03/03/21 13:52

Comments:

Analyzed: 03/04/21 23:56

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	0.312	0.56		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S4-QA

Lab ID: 1030328-09

Sampled: 02/21/21 23:59

Pressure @ Receipt: 0.00 psig

Canister #: SAT185

Received: 03/03/21 13:52

Comments:

Analyzed: 03/05/21 02:58

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	0.202	0.37		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 1030328-10

Sampled: 02/21/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: A21067

Received: 03/03/21 13:52

Comments:

Analyzed: 03/05/21 00:57

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	0.163	0.29	LK	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 1031031-01

Sampled: 02/27/21 23:59

Pressure @ Receipt: 0.50" Hg

Canister #: 19289

Received: 03/10/21 14:19

Comments: Received at ambient

Analyzed: 03/19/21 21:24

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0710	0.13		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S4-QA Void

Lab ID: 1031031-02

Sampled: 02/27/21 23:59

Pressure @ Receipt: 0.50" Hg

Canister #: A21031

Received: 03/10/21 14:19

Comments: Void- per site

Analyzed: 03/19/21 22:25

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	0.160	0.29		0.0261

per agreement with lab and language in QAPP - if lab measures a vacuum - then the sample can be analyzed. Future samples should not be marked as void if "0 inches Hg" in the field.

DGO 7/20/2021



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1031120-01

Sampled: 02/27/21 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 33235

Received: 03/11/21 13:09

Comments:

Analyzed: 03/20/21 00:26

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	0.0398	0.07		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1031120-02

Sampled: 02/27/21 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: AZ38

Received: 03/11/21 13:09

Comments:

Analyzed: 03/20/21 01:27

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	0.416	0.75	LK	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 1031120-03

Sampled: 02/27/21 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: A21065

Received: 03/11/21 13:09

Comments:

Analyzed: 03/20/21 02:28

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	0.110	0.20		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:30

SUBMITTED: 02/03/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S7-SA

Lab ID: 1031120-04

Sampled: 02/27/21 23:59

Pressure @ Receipt: 0.5" Hg

Canister #: A21074

Received: 03/11/21 13:09

Comments:

Analyzed: 03/20/21 04:30

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	0.0484	0.09		0.0261



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ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
REPORTED: 04/16/21 14:30
SUBMITTED: 02/03/21 to 03/11/21
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 B1B1802 - Summa Canister Prep

Blank (B1B1802-BLK1)

Prepared: 02/11/21 Analyzed: 02/18/21

Ethylene oxide	ND	ppbv				U
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Batch B1B2307 - Summa Canister Prep

Blank (B1B2307-BLK1)

Prepared: 02/18/21 Analyzed: 02/23/21

Ethylene oxide	ND	ppbv				U
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Duplicate (B1B2307-DUP1)

Source: 1020424-05

Prepared: 01/28/21 Analyzed: 02/24/21

Ethylene oxide	ND	ppbv	ND		25	U
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Batch B1B2507 - Summa Canister Prep

Blank (B1B2507-BLK1)

Prepared & Analyzed: 02/25/21

Ethylene oxide	ND	ppbv				U
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Duplicate (B1B2507-DUP1)

Source: 1021021-01

Prepared: 02/03/21 Analyzed: 02/25/21

Ethylene oxide	0.208	ppbv	0.21	2.66	25	
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Duplicate (B1B2507-DUP2)

Source: 1021021-02

Prepared: 02/03/21 Analyzed: 02/25/21

Ethylene oxide	0.0523	ppbv	0.05	10.7	25	
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Batch B1B2603 - Summa Canister Prep

Blank (B1B2603-BLK1)

Prepared & Analyzed: 02/26/21

Ethylene oxide	ND	ppbv				U
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Duplicate (B1B2603-DUP3)

Source: 1021828-02

Prepared: 02/09/21 Analyzed: 02/27/21

Ethylene oxide	0.0280	ppbv	0.03	21.9	25	
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Duplicate (B1B2603-DUP4)

Source: 1021828-03

Prepared: 02/09/21 Analyzed: 02/27/21

Ethylene oxide	0.220	ppbv	0.21	6.09	25	LK
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Batch B1C0309 - Summa Canister Prep

Blank (B1C0309-BLK1)

Prepared & Analyzed: 03/03/21

Ethylene oxide	ND	ppbv				U
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Duplicate (B1C0309-DUP3)

Source: 1030328-03

Prepared: 02/15/21 Analyzed: 03/04/21

Ethylene oxide	0.284	ppbv	0.28	2.35	25	
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Duplicate (B1C0309-DUP4)

Source: 1030328-04

Prepared: 02/15/21 Analyzed: 03/04/21

Ethylene oxide	0.202	ppbv	0.20	0.837	25	LK
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Batch B1C0408 - Summa Canister Prep

Blank (B1C0408-BLK1)

Prepared & Analyzed: 03/04/21

Ethylene oxide	ND	ppbv				U
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Duplicate (B1C0408-DUP1)

Source: 1030328-10

Prepared: 02/21/21 Analyzed: 03/05/21

Ethylene oxide	0.178	ppbv	0.16	8.61	25	LK
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Duplicate (B1C0408-DUP2)

Source: 1030328-09

Prepared: 02/21/21 Analyzed: 03/05/21

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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ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
REPORTED: 04/16/21 14:30
SUBMITTED: 02/03/21 to 03/11/21
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 B1C0408 - Summa Canister Prep

Duplicate (B1C0408-DUP2) Continued **Source: 1030328-09** Prepared: 02/21/21 Analyzed: 03/05/21

Ethylene oxide	0.207	ppbv	0.20	2.15	25
----------------	-------	------	------	------	----

Batch B1C1902 - Summa Canister Prep

Blank (B1C1902-BLK1) Prepared & Analyzed: 03/19/21

Ethylene oxide	ND	ppbv			U
----------------	----	------	--	--	---

Duplicate (B1C1902-DUP1) **Source: 1031031-02** Prepared: 02/27/21 Analyzed: 03/19/21

Ethylene oxide	0.166	ppbv	0.16	3.62	25
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Duplicate (B1C1902-DUP2) **Source: 1031120-03** Prepared: 02/27/21 Analyzed: 03/20/21

Ethylene oxide	0.102	ppbv	0.11	7.07	25
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Duplicate (B1C1902-DUP3) **Source: 1031120-04** Prepared: 02/27/21 Analyzed: 03/20/21

Ethylene oxide	0.0494	ppbv	0.05	2.04	25
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PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
REPORTED: 04/16/21 14:30
SUBMITTED: 02/03/21 to 03/11/21
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 2102038

Calibration Check (2102038-CCV1)

Prepared & Analyzed: 02/18/21

Ethylene oxide	2.88	ppbv	18.9	30.00
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Sequence 2102046

Calibration Check (2102046-CCV1)

Prepared & Analyzed: 02/23/21

Ethylene oxide	3.06	ppbv	26.7	30.00
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Sequence 2102052

Calibration Check (2102052-CCV1)

Prepared & Analyzed: 02/25/21

Ethylene oxide	2.34	ppbv	-6.5	30.00
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Sequence 2102057

Calibration Check (2102057-CCV1)

Prepared & Analyzed: 02/26/21

Ethylene oxide	2.35	ppbv	-6.0	30.00
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Sequence 2103017

Calibration Check (2103017-CCV1)

Prepared & Analyzed: 03/03/21

Ethylene oxide	2.58	ppbv	3.1	30.00
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Sequence 2103021

Calibration Check (2103021-CCV1)

Prepared & Analyzed: 03/04/21

Ethylene oxide	2.48	ppbv	-0.9	30.00
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Sequence 2103056

Calibration Check (2103056-CCV1)

Prepared & Analyzed: 03/19/21

Ethylene oxide	2.06	ppbv	-17.7	30.00
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CERTIFICATE OF ANALYSIS

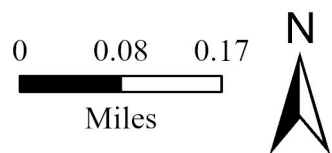
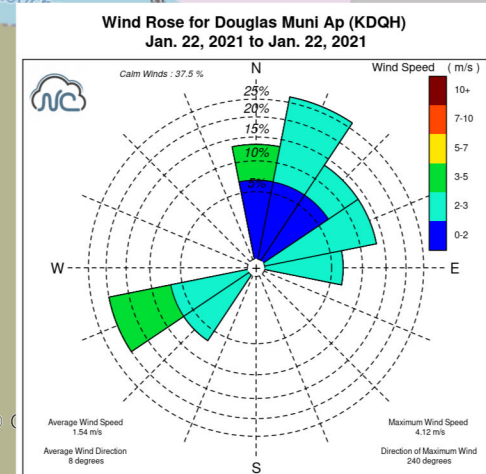
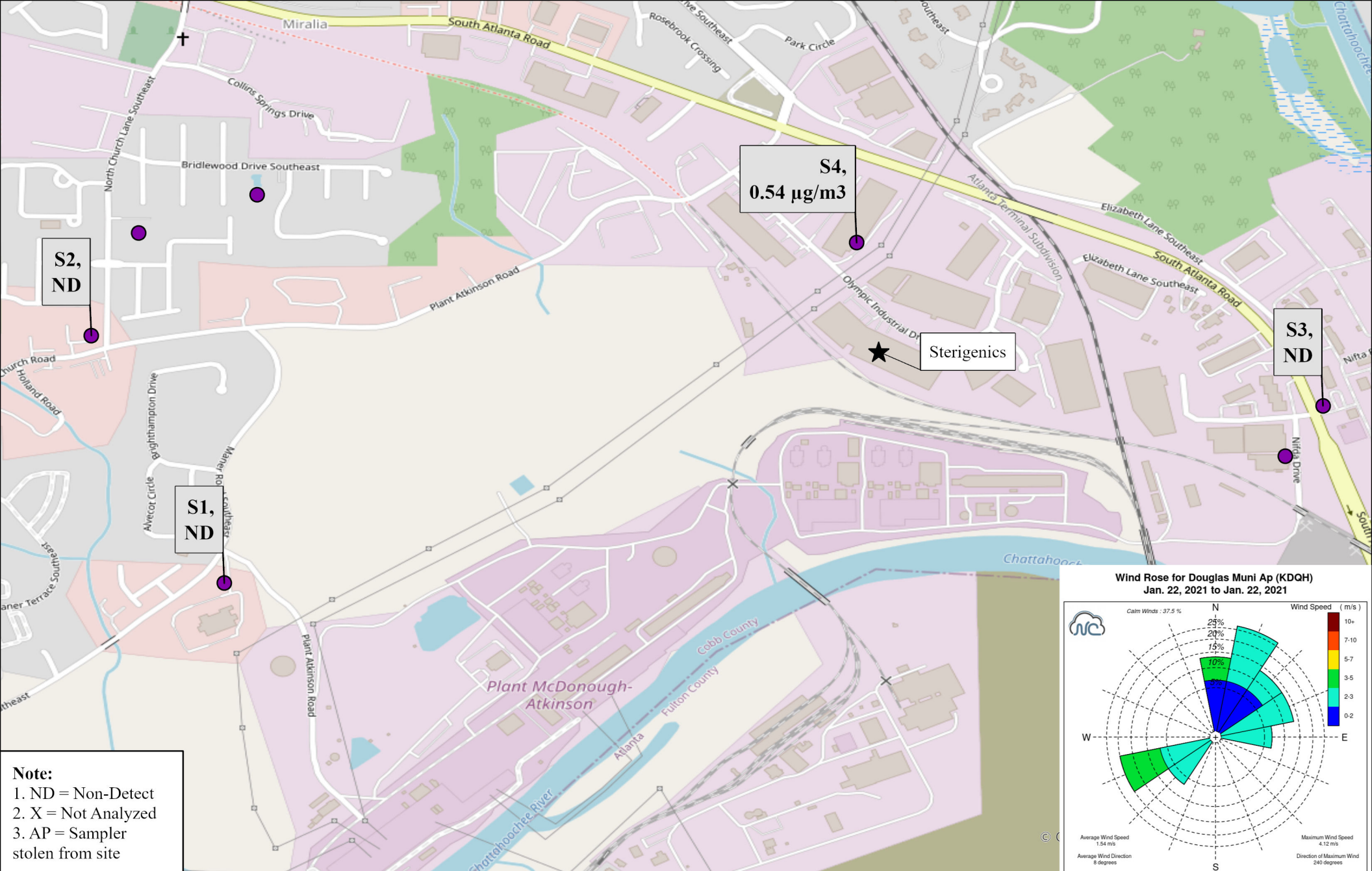
U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
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SITE CODE: Cobb

Notes and Definitions

U	Under Detection Limit
D-F	Duplicate exceeds DQO criteria.
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference
LK	Analyte Identified: Reported Value May Be Biased High

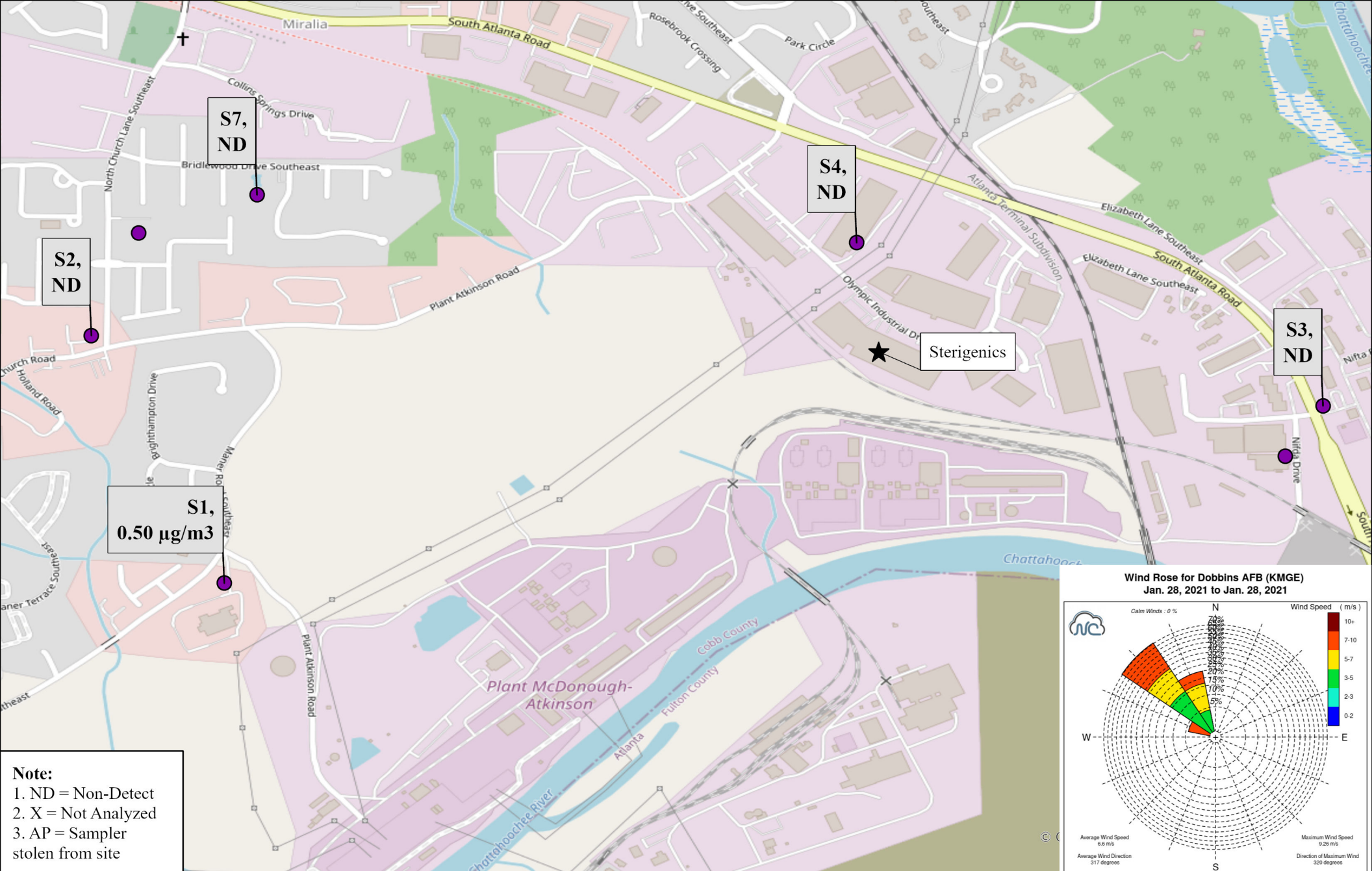
Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.



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

Ethylene Oxide Sampling
Cobb County, GA

01/22/2021
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



Ethylene Oxide Sampling
 Cobb County, GA

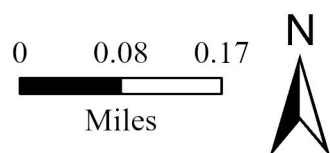
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 Analyzed By: Eastern Research Group



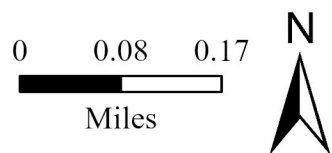
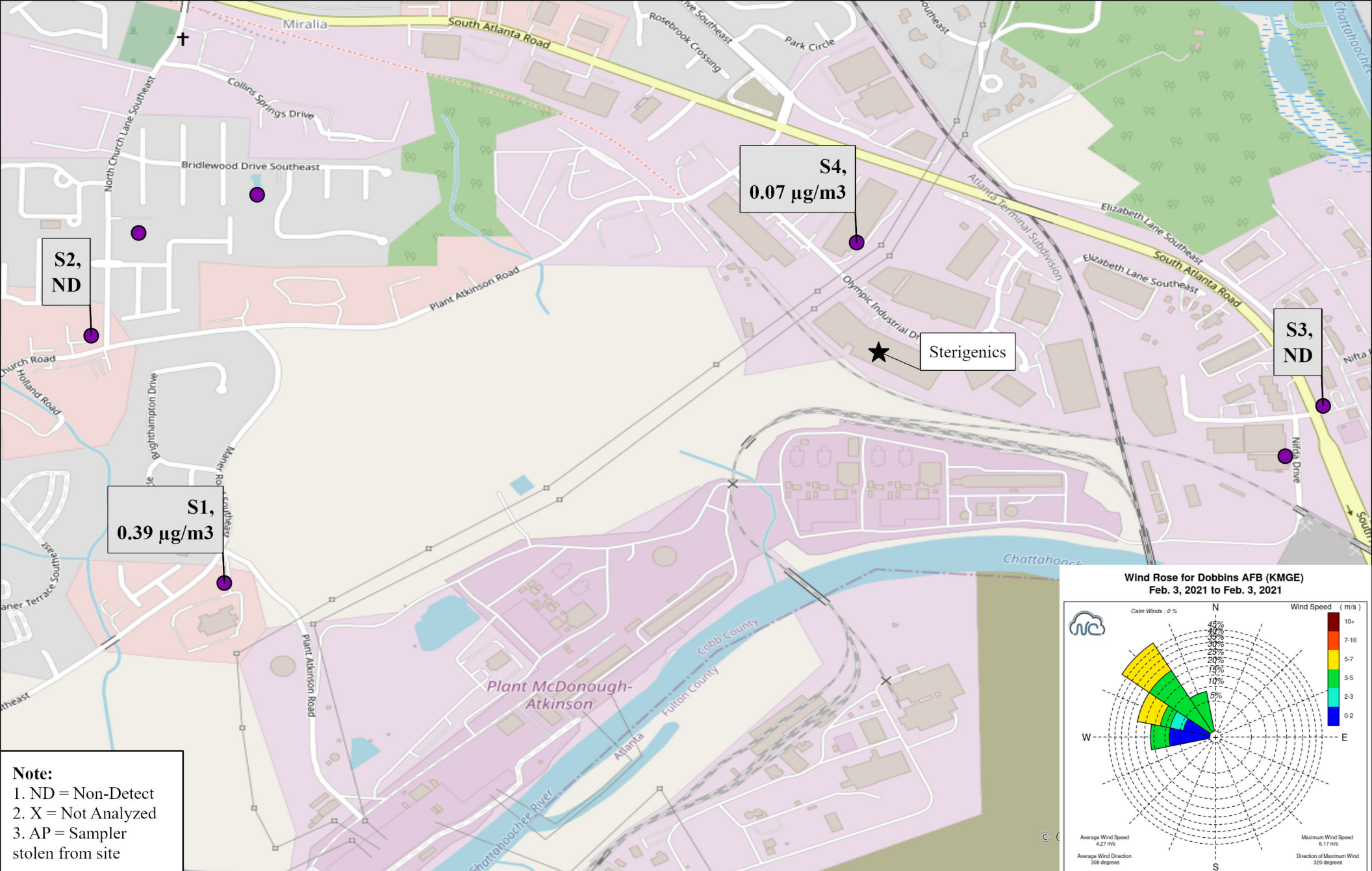
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Ethylene Oxide Sampling Cobb County, GA

January 2021 Site Average Values
Note: Not detectable values were included in average calculations as a value of 0.
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



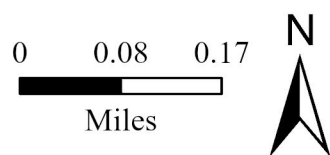
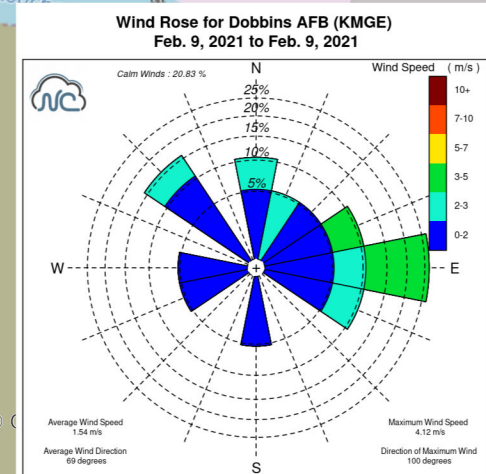
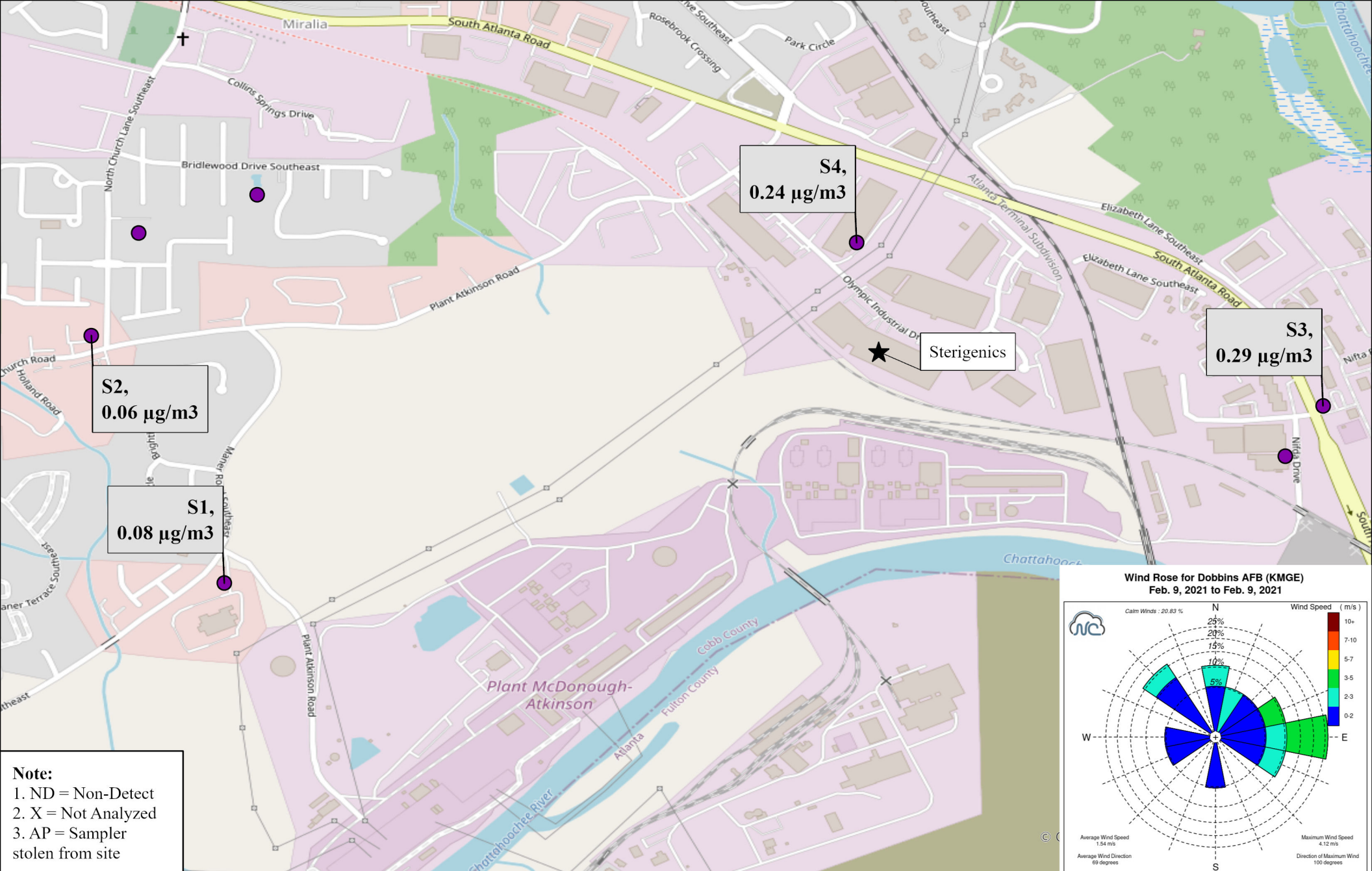
Site ID, Number of Samples,
Concentration ($\mu\text{g}/\text{m}^3$)



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

Ethylene Oxide Sampling
 Cobb County, GA

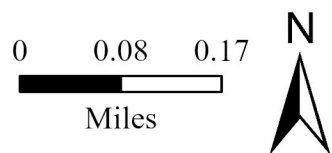
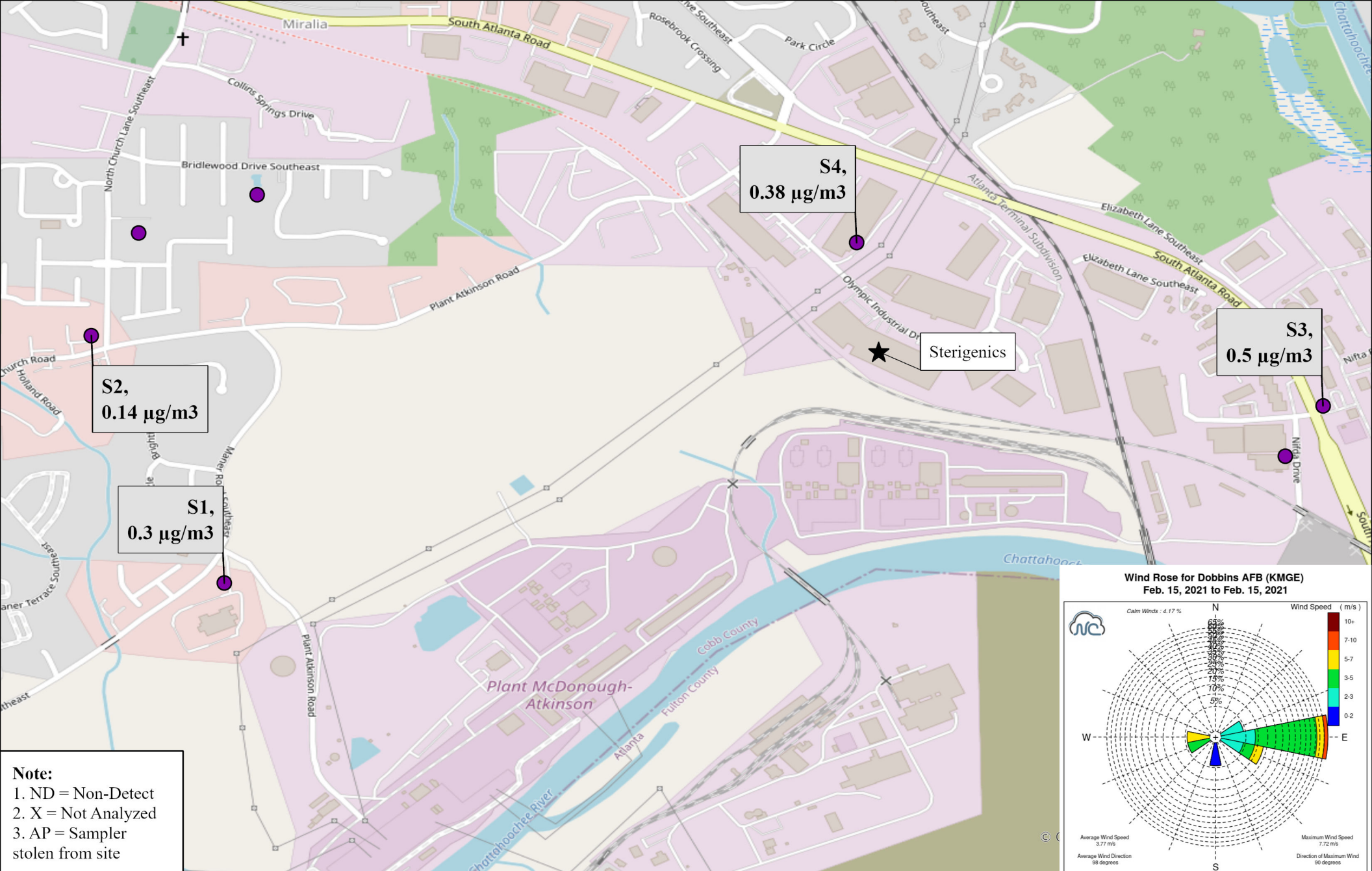
02/03/2021
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



Site ID, Concentration (µg/m³)

Ethylene Oxide Sampling
 Cobb County, GA

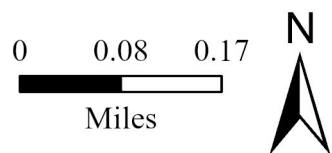
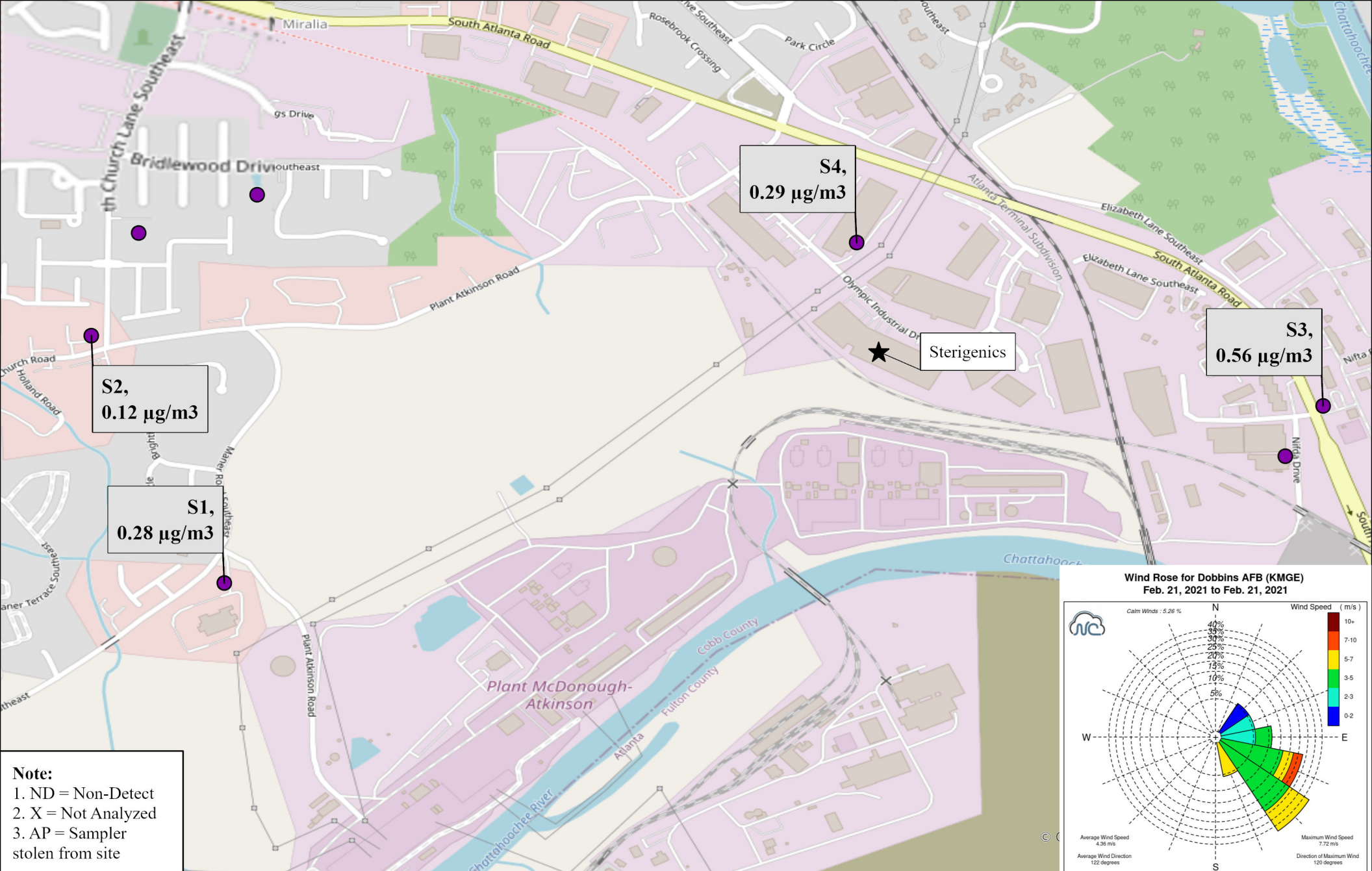
02/09/2021
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling
 Cobb County, GA

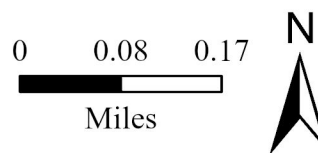
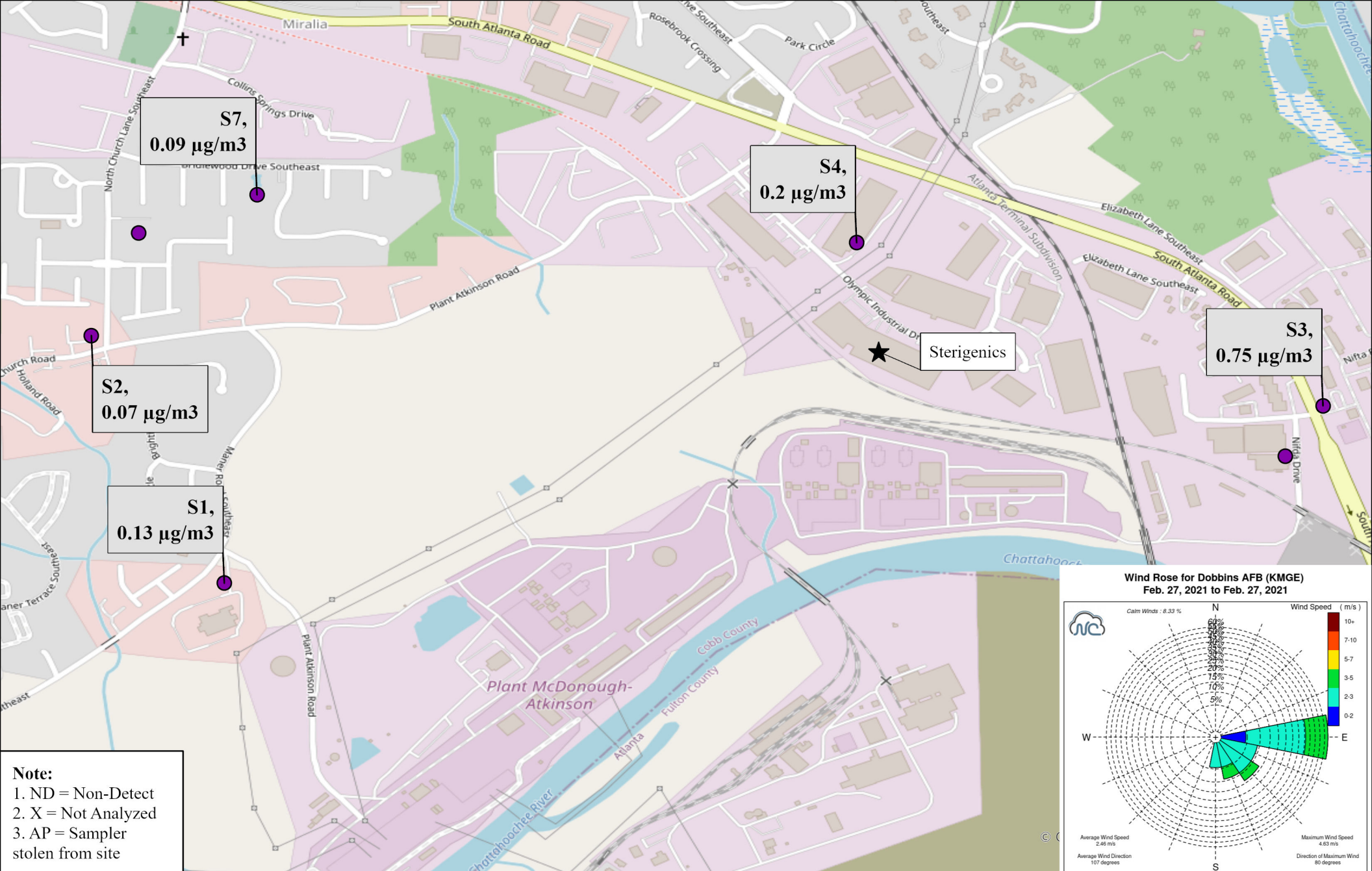
02/15/2021
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling
 Cobb County, GA

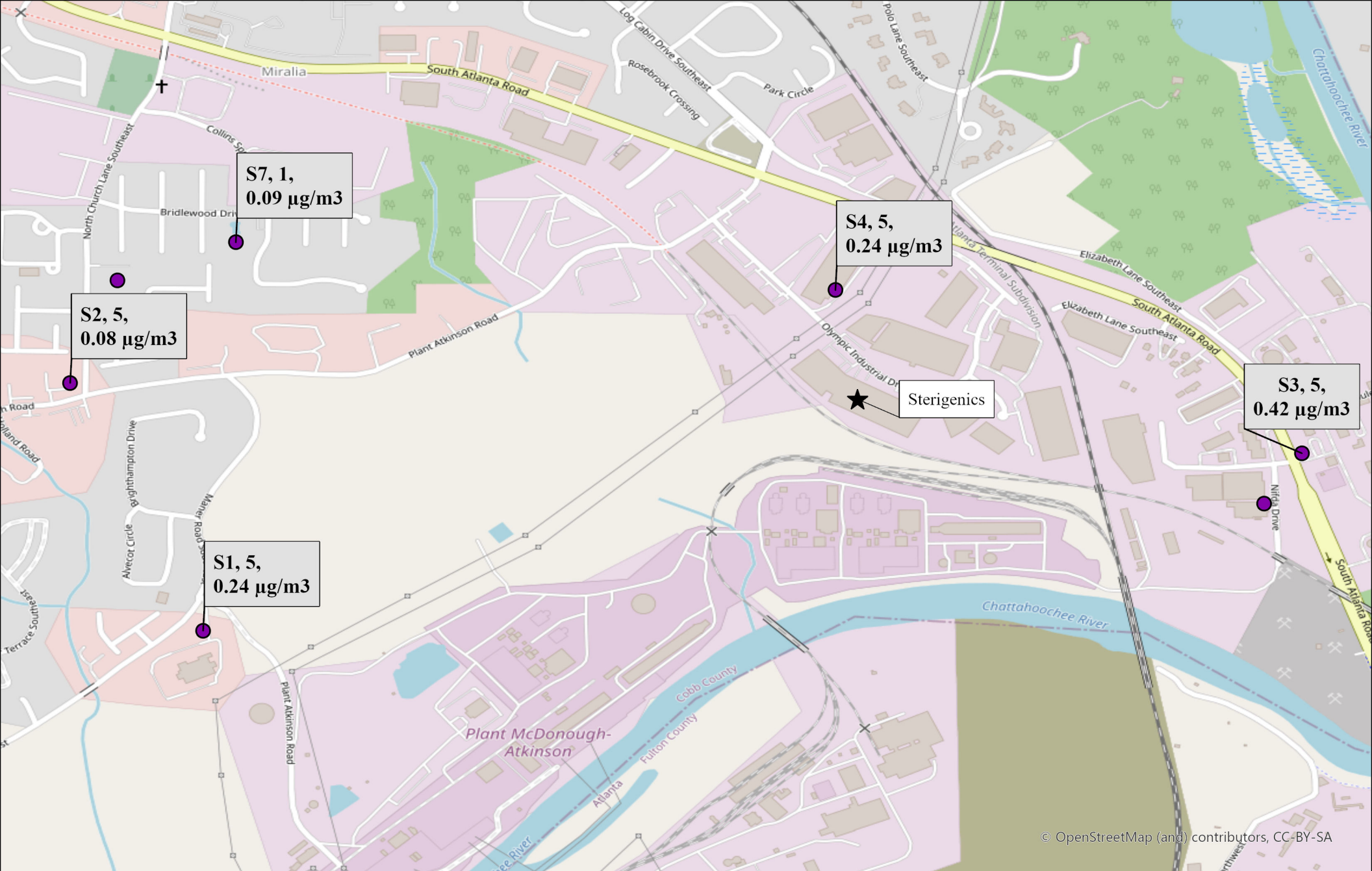
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 Analyzed By: Eastern Research Group



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

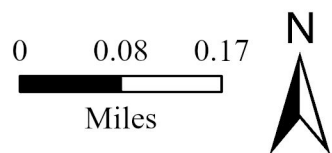
Ethylene Oxide Sampling
 Cobb County, GA

02/27/2021
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



Ethylene Oxide Sampling
Cobb County, GA

February 2021 Site Average Values
Note: Not detectable values were included in average calculations as a value of 0.
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



Site ID, Number of Samples,
Concentration (µg/m3)