

September 12, 2022

**MEMORANDUM**

To: Karen Hays, Air Branch Chief *KH*

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Cobb – July 9 – August 14, 2021, Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of July 9 – August 14, 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 “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 “3” was given to samples to indicate that integrity of the field data may have been compromised. The Qualifier code of “LK” was given by ERG to indicate that the sample may be biased high. The samples listed as “AF” indicate that the sample was scheduled but not collected. The samples listed as AF indicate that the sample was scheduled but not collected. As of June 1, 2021, sampling frequency was reduced to once every 12 days. Sampling was discontinued at S4 on July 1, 2021. Sampling was discontinued at site S1 on July 31, 2021.

Location	Date	Qualifier	EtO Concentration (ug/m <sup>3</sup> )
S1	07/09/2021		AF
S1	07/15/2021	2	0.18
S1	07/21/2021		AF
S1	07/27/2021	LK	0.67
S2	07/09/2021		AF
S2	07/15/2021	2, 3	0.17
S2	07/21/2021		AF
S2	07/27/2021	2, 3	0.18
S2	08/02/2021	2, 3	0.33
S2	08/14/2021	2, 3, LK	0.66
S2 QA	07/15/2021	2, 3	0.15
S2 QA	08/14/2021	2, 3, LK	0.52
S3	07/09/2021		AF
S3	07/15/2021		0.23
S3	07/21/2021		AF
S3	07/27/2021	2	0.24
S3	08/02/2021		0.44
S3	08/14/2021	2, LK	0.37

Location		Date		Qualifier		EtO Concentration (ug/m <sup>3</sup> )
S6 SA		07/27/2021		2, LK		0.50
S7 SA		07/27/2021		2		1.31

If you have any questions, please let me know.

DGO/do



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

October 04, 2021

Ms. Jaime Gore  
GA Ambient Monitoring Program  
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 07/29/21 10:58 through 08/27/21 12:14.

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](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 #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

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	1072938-01	Air	07/15/21 23:59	07/29/21 10:58
S2	1072938-02	Air	07/15/21 23:59	07/29/21 10:58
S2-QA	1072938-03	Air	07/15/21 23:59	07/29/21 10:58
S3	1072938-04	Air	07/15/21 23:59	07/29/21 10:58
Cobb FB	1072938-05	Air	07/26/21 23:59	07/29/21 10:58
S1	1080604-01	Air	07/27/21 23:59	08/06/21 11:05
S2	1080604-02	Air	07/27/21 23:59	08/06/21 11:05
S3	1080604-03	Air	07/27/21 23:59	08/06/21 11:05
S7-SA	1080604-04	Air	07/27/21 23:59	08/06/21 11:05
S6-SA	1080604-05	Air	07/27/21 23:59	08/06/21 11:05
S2	1081308-01	Air	08/02/21 23:59	08/13/21 10:42
S3	1081308-02	Air	08/02/21 23:59	08/13/21 10:42
Cobb FB	1090124-01	Air	08/24/21 23:59	08/27/21 12:14
S2	1090124-02	Air	08/14/21 23:59	08/27/21 12:14
S2-QA	1090124-03	Air	08/14/21 23:59	08/27/21 12:14
S3	1090124-04	Air	08/14/21 23:59	08/27/21 12:14



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 1072938-01

Sampled: 07/15/21 23:59

Pressure @ Receipt: 10.0" Hg

Canister #: 33535

Received: 07/29/21 10:58

Comments:

Analyzed: 08/13/21 01:16

### 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	0.0993	0.18		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1072938-02

Sampled: 07/15/21 23:59

Pressure @ Receipt: 8.0" Hg

Canister #: 110258

Received: 07/29/21 10:58

Comments:

Analyzed: 08/13/21 02:17

### 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	0.0925	0.17		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2-QA

Lab ID: 1072938-03

Sampled: 07/15/21 23:59

Pressure @ Receipt: 10.50 "Hg

Canister #: 9570

Received: 07/29/21 10:58

Comments:

Analyzed: 08/13/21 04:20

### 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	0.0833	0.15		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1072938-04

Sampled: 07/15/21 23:59

Pressure @ Receipt: 5.5 " Hg

Canister #: 114348

Received: 07/29/21 10:58

Comments:

Analyzed: 08/13/21 06:23

### 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	0.128	0.23		0.0261





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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: Cobb FB

Lab ID: 1072938-05

Sampled: 07/26/21 23:59

Pressure @ Receipt: 30.0 "Hg

Canister #: 19299

Received: 07/29/21 10:58

Comments: Field Blank

Analyzed: 08/16/21 19:46

### 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	ND	ND	U	0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 1080604-01

Sampled: 07/27/21 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: A21106

Received: 08/06/21 11:05

Comments:

Analyzed: 08/19/21 21:53

### 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	0.372	0.67	LK	0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1080604-02

Sampled: 07/27/21 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: 19282

Received: 08/06/21 11:05

Comments:

Analyzed: 08/19/21 22:53

### 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	0.100	0.18		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1080604-03

Sampled: 07/27/21 23:59

Pressure @ Receipt: 8.00 " Hg

Canister #: 33478

Received: 08/06/21 11:05

Comments:

Analyzed: 08/19/21 23:54

### 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	0.133	0.24		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S7-SA

Lab ID: 1080604-04

Sampled: 07/27/21 23:59

Pressure @ Receipt: 11.0" Hg

Canister #: 35135

Received: 08/06/21 11:05

Comments:

Analyzed: 08/20/21 00:55

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.726	1.31		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S6-SA

Lab ID: 1080604-05

Sampled: 07/27/21 23:59

Pressure @ Receipt: 8.00" Hg

Canister #: A21097

Received: 08/06/21 11:05

Comments:

Analyzed: 08/20/21 01:56

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.275	0.50	LK	0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1081308-01

Sampled: 08/02/21 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 33534

Received: 08/13/21 10:42

Comments:

Analyzed: 08/20/21 08:59

### 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	0.180	0.33		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1081308-02

Sampled: 08/02/21 23:59

Pressure @ Receipt: 5.50 " Hg

Canister #: A21053

Received: 08/13/21 10:42

Comments:

Analyzed: 08/20/21 18:33

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.243	0.44		0.0261





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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: Cobb FB

Lab ID: 1090124-01

Sampled: 08/24/21 23:59

Pressure @ Receipt: 27.5 "Hg

Canister #: 110314

Received: 08/27/21 12:14

Comments: Field Blank

Analyzed: 09/15/21 17:49

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 1090124-02

Sampled: 08/14/21 23:59

Pressure @ Receipt: 8.00" Hg

Canister #: SAT137

Received: 08/27/21 12:14

Comments:

Analyzed: 09/02/21 06:48

### 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	0.364	0.66	LK	0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S2-QA

Lab ID: 1090124-03

Sampled: 08/14/21 23:59

Pressure @ Receipt: 6.00 "Hg

Canister #: SAT081

Received: 08/27/21 12:14

Comments:

Analyzed: 09/02/21 07:48

### 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	0.286	0.52	LK	0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:42

SUBMITTED: 07/29/21 to 08/27/21

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 1090124-04

Sampled: 08/14/21 23:59

Pressure @ Receipt: 8.00 " Hg

Canister #: SAT030

Received: 08/27/21 12:14

Comments:

Analyzed: 09/01/21 21:45

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.204	0.37	LK	0.0261



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4244 International Pkwy, Suite 120  
Atlanta, GA 30354  
**ATTN:** Ms. Jaime Gore  
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**FILE #:** 4222.00  
**REPORTED:** 10/04/21 13:42  
**SUBMITTED:** 07/29/21 to 08/27/21  
**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 B1H1105 - Summa Canister Prep

##### Blank (B1H1105-BLK1)

Prepared: 08/11/21 Analyzed: 08/12/21

Ethylene oxide	ND	ppbv				U
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##### Duplicate (B1H1105-DUP5)

Source: 1072938-02

Prepared: 07/15/21 Analyzed: 08/13/21

Ethylene oxide	0.0950	ppbv	0.09	2.67	25	
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##### Duplicate (B1H1105-DUP6)

Source: 1072938-03

Prepared: 07/15/21 Analyzed: 08/13/21

Ethylene oxide	0.0719	ppbv	0.08	14.7	25	
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#### Batch B1H1609 - Summa Canister Prep

##### Blank (B1H1609-BLK1)

Prepared & Analyzed: 08/16/21

Ethylene oxide	ND	ppbv				U
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#### Batch B1H1907 - Summa Canister Prep

##### Blank (B1H1907-BLK1)

Prepared & Analyzed: 08/19/21

Ethylene oxide	ND	ppbv				U
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#### Batch B1H2003 - Summa Canister Prep

##### Blank (B1H2003-BLK1)

Prepared & Analyzed: 08/20/21

Ethylene oxide	ND	ppbv				U
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#### Batch B1I0109 - Summa Canister Prep

##### Blank (B1I0109-BLK1)

Prepared: 08/16/21 Analyzed: 09/01/21

Ethylene oxide	ND	ppbv				U
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##### Duplicate (B1I0109-DUP3)

Source: 1090124-02

Prepared: 08/14/21 Analyzed: 09/02/21

Ethylene oxide	0.356	ppbv	0.36	2.31	25	LK
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##### Duplicate (B1I0109-DUP4)

Source: 1090124-03

Prepared: 08/14/21 Analyzed: 09/02/21

Ethylene oxide	0.291	ppbv	0.29	1.80	25	LK
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**FILE #:** 4222.00  
**REPORTED:** 10/04/21 13:42  
**SUBMITTED:** 07/29/21 to 08/27/21  
**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 2108032

##### Calibration Check (2108032-CCV1)

Prepared & Analyzed: 08/12/21

Ethylene oxide	2.86	ppbv	14.2	30.00
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#### Sequence 2108043

##### Calibration Check (2108043-CCV1)

Prepared & Analyzed: 08/16/21

Ethylene oxide	2.65	ppbv	6.1	30.00
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#### Sequence 2108059

##### Calibration Check (2108059-CCV1)

Prepared & Analyzed: 08/19/21

Ethylene oxide	2.40	ppbv	-0.6	30.00
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#### Sequence 2108062

##### Calibration Check (2108062-CCV1)

Prepared & Analyzed: 08/20/21

Ethylene oxide	2.46	ppbv	1.8	30.00
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#### Sequence 2109007

##### Calibration Check (2109007-CCV1)

Prepared & Analyzed: 09/01/21

Ethylene oxide	2.36	ppbv	-5.6	30.00
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## CERTIFICATE OF ANALYSIS

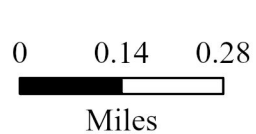
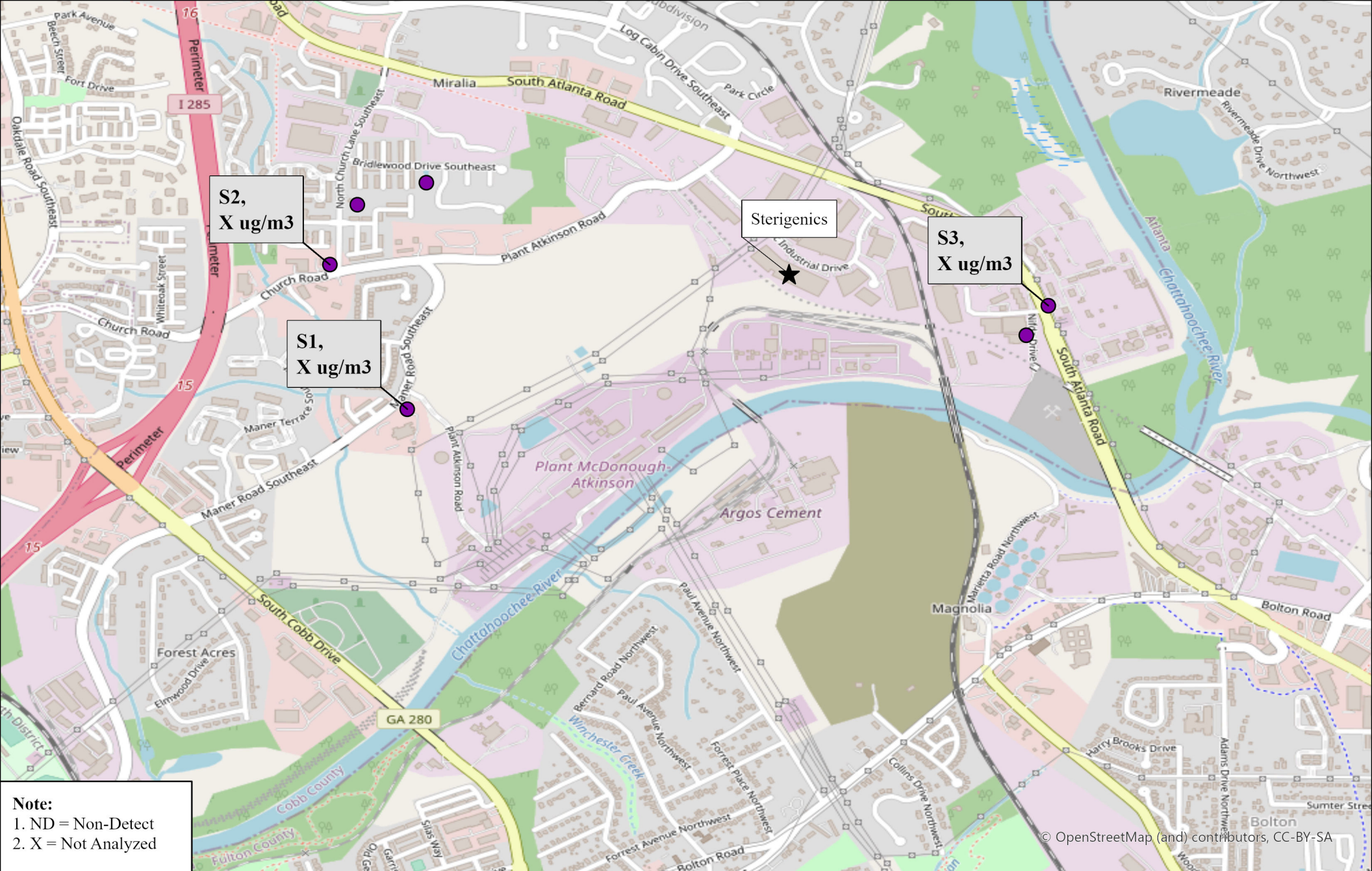
U.S. Environmental Protection Agency, Region 4  
4244 International Pkwy, Suite 120  
Atlanta, GA 30354  
**ATTN:** Ms. Jaime Gore  
**PHONE:** (404) 362-4912 **FAX:** (919) 541-0516

**FILE #:** 4222.00  
**REPORTED:** 10/04/21 13:42  
**SUBMITTED:** 07/29/21 to 08/27/21  
**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  
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 (µg/m³)

Ethylene Oxide Sampling  
Cobb County, GA

7/09/2021

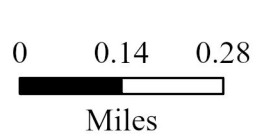
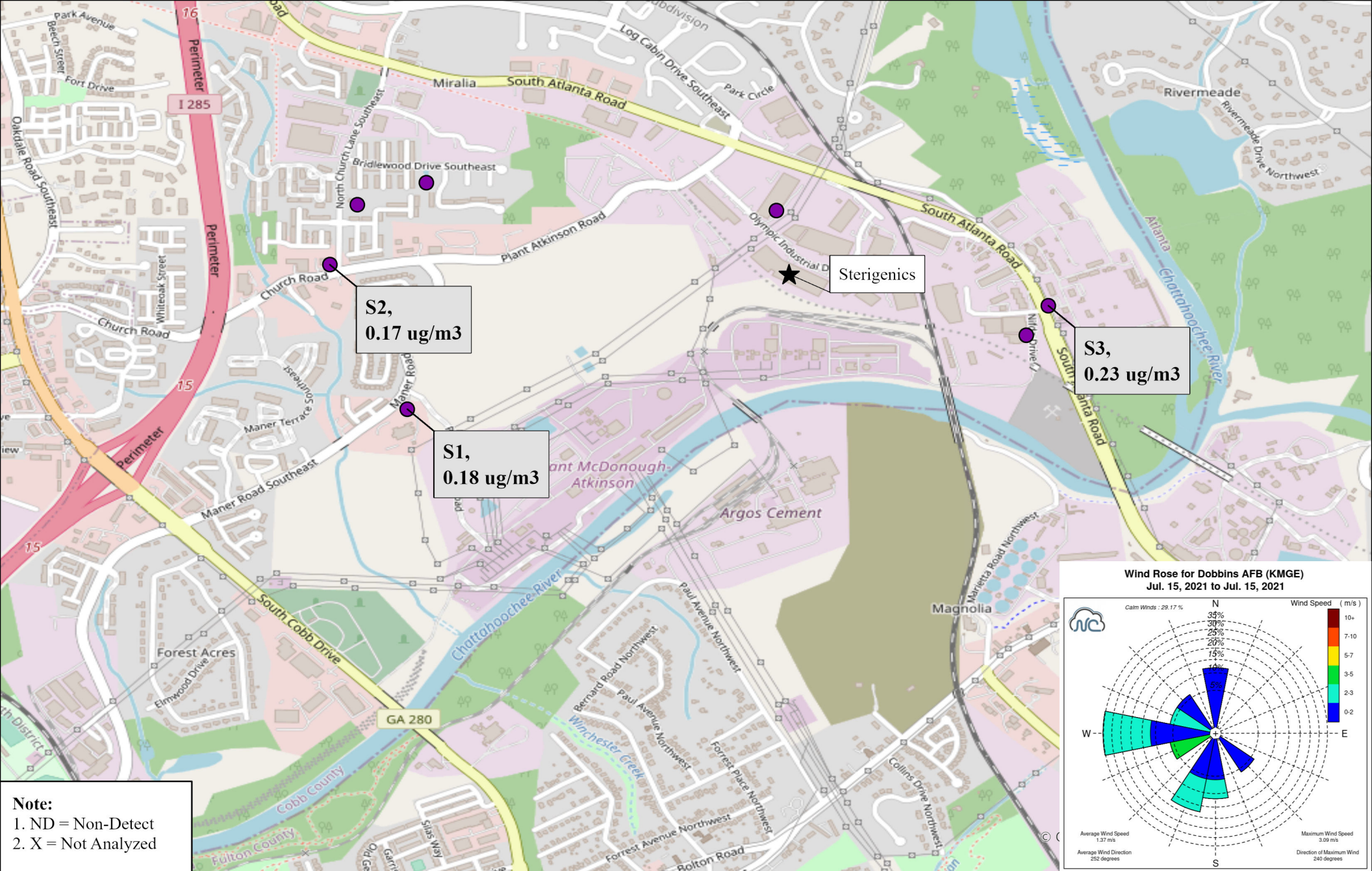
Sampled By: Georgia Environmental Protection Division  
Analyzed By: Eastern Research Group



**GEORGIA**  
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION





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

Ethylene Oxide Sampling  
 Cobb County, GA

7/15/2021

Sampled By: Georgia Environmental Protection Division

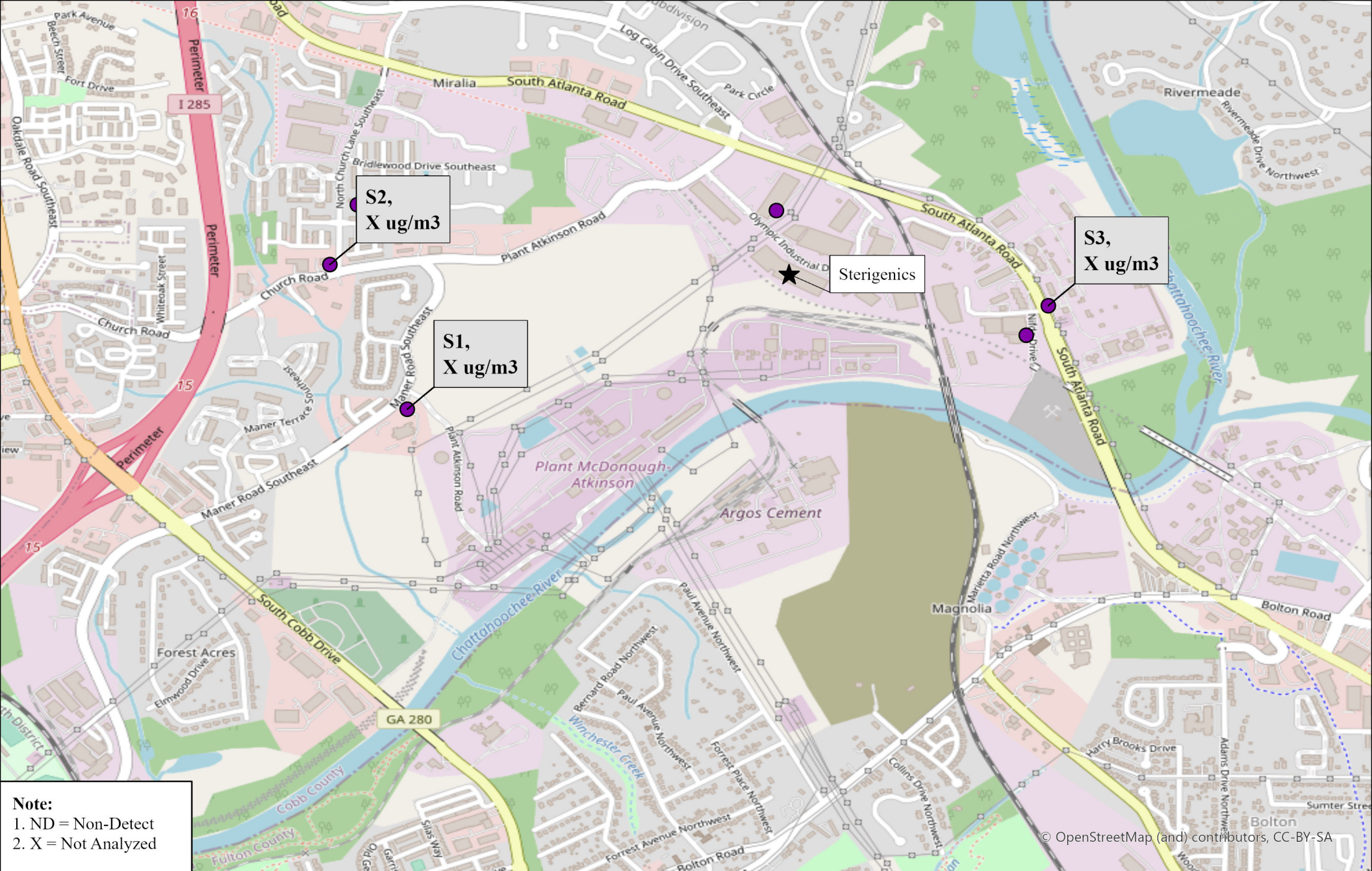
Analyzed By: Eastern Research Group



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ENVIRONMENTAL PROTECTION DIVISION





Ethylene Oxide Sampling  
 Cobb County, GA

7/21/2021

Sampled By: Georgia Environmental Protection Division

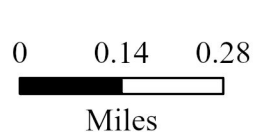
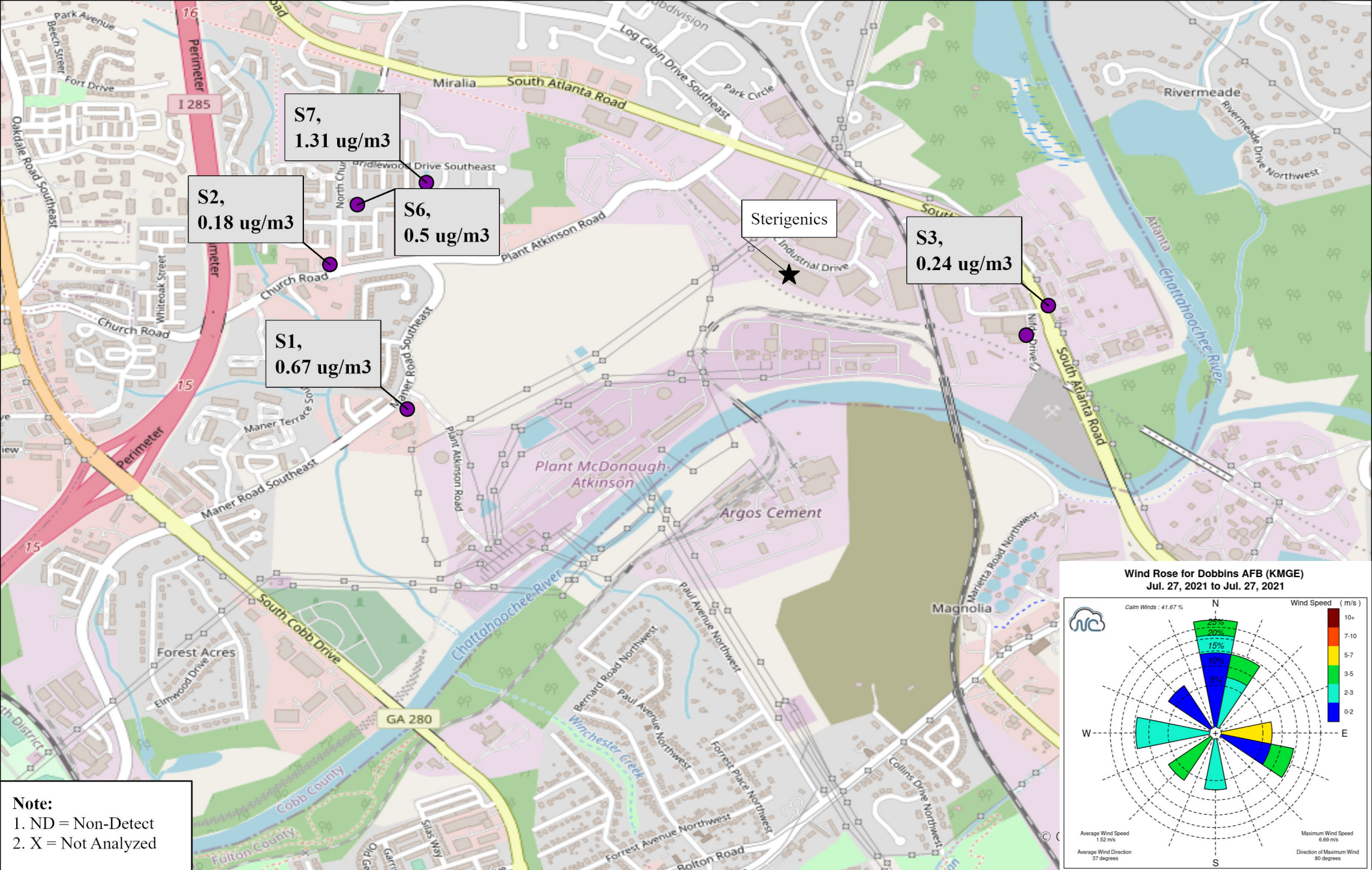
Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling  
 Cobb County, GA

7/27/2021

Sampled By: Georgia Environmental Protection Division

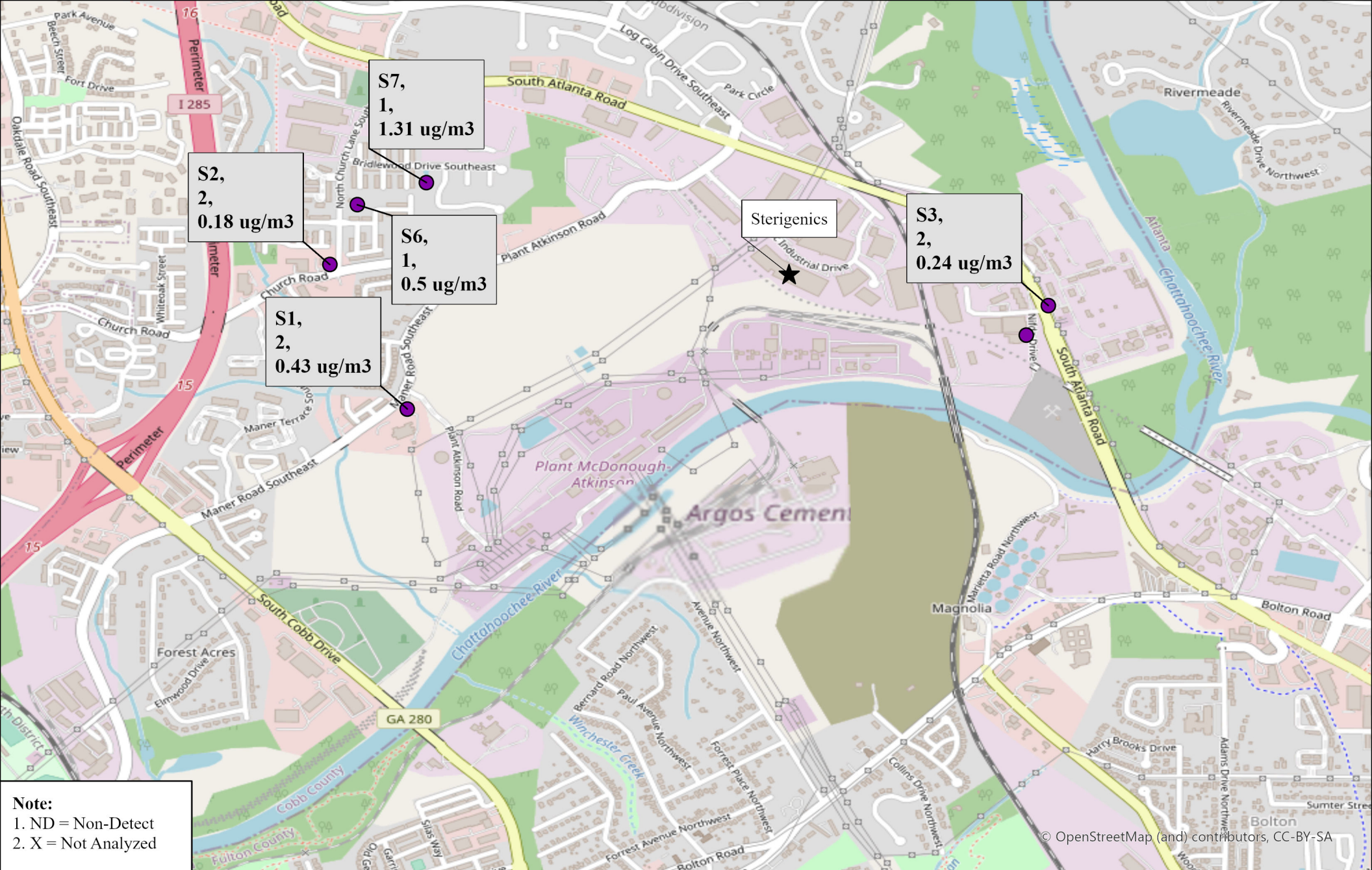
Analyzed By: Eastern Research Group



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Ethylene Oxide Sampling  
 Cobb County, GA

July 2021 Site Average Value

Note: Not detectable value were included in average calculations as a value of 0.

Sampled By: Georgia Environmental Protection Division

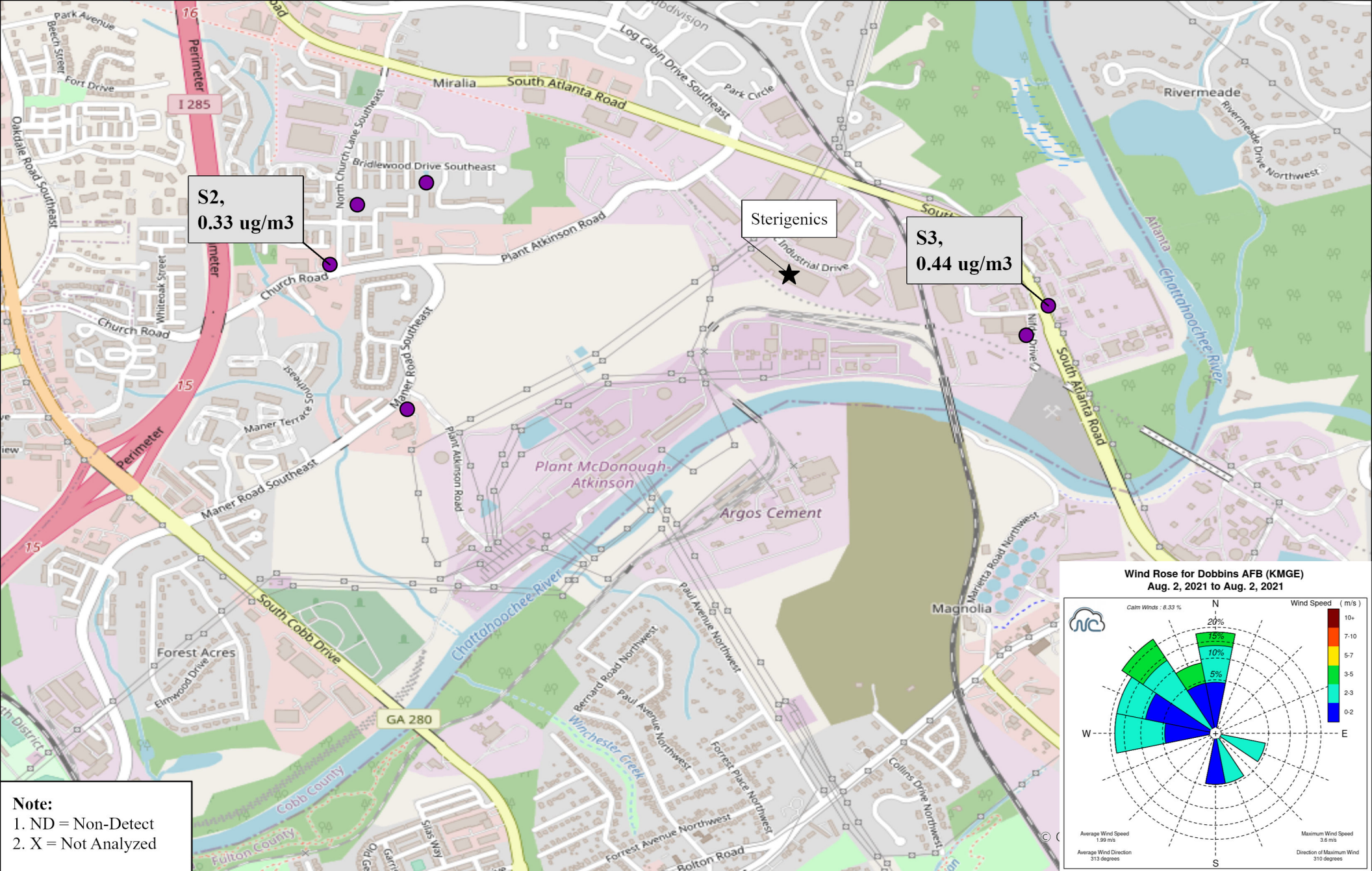
Analyzed By: Eastern Research Group



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0 0.14 0.28  
 Miles



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

Ethylene Oxide Sampling  
 Cobb County, GA

8/02/2021

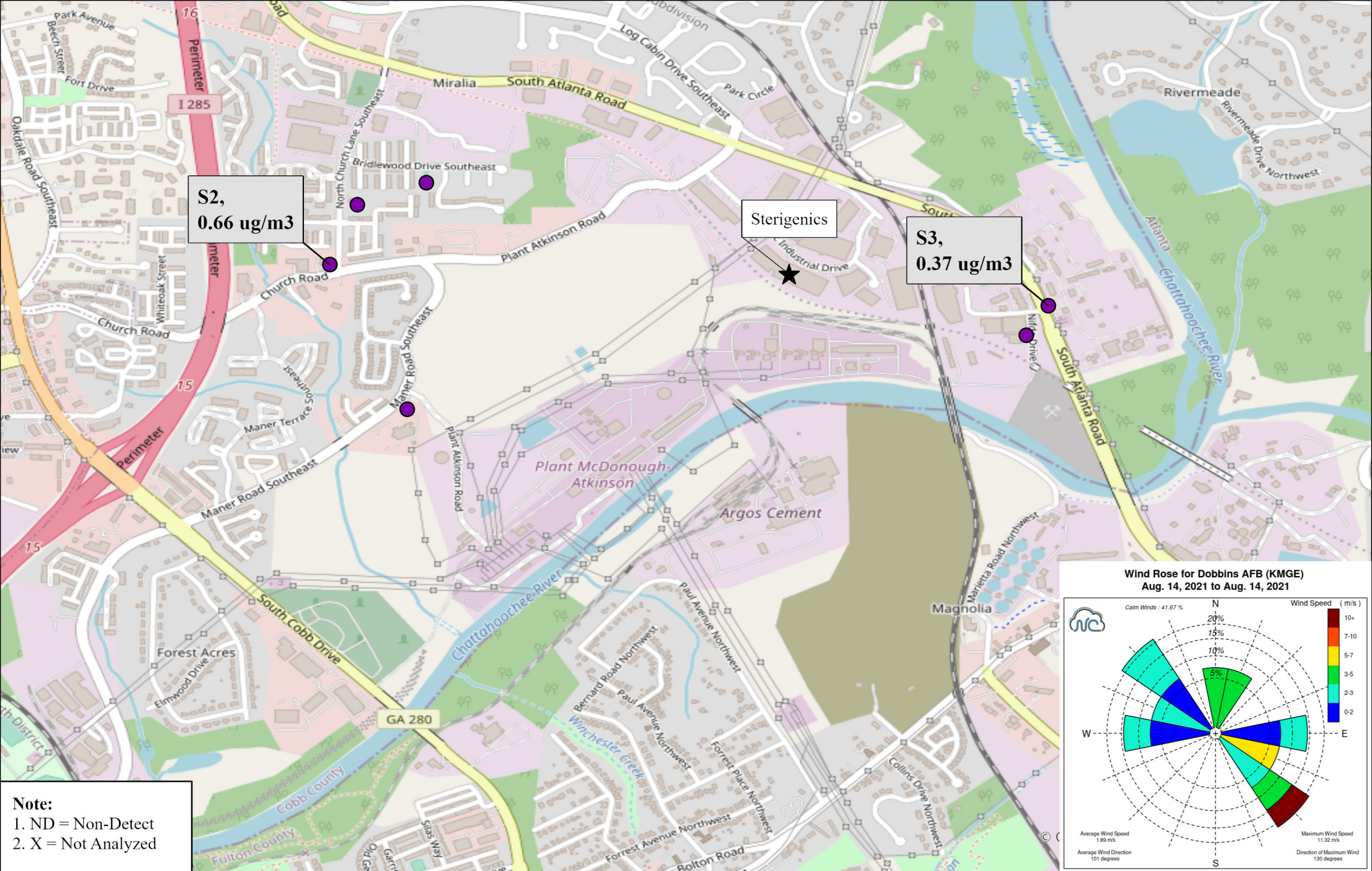
Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group



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0 0.14 0.28  
 Miles



Site ID, Concentration (ug/m3)

Ethylene Oxide Sampling  
 Cobb County, GA

8/14/2021

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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