

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: Covington 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 Covington area to characterize the EtO concentration. Each of the samples were sent to Eastern Research Group (ERG) for analysis.

The Qualifier code of "LK" was given by ERG to indicate that the sample may be biased high. The Qualifier code "U" was given by ERG to indicate that the sample is under the detection limit. 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" was given by ERG to indicate that the duplicate exceeds Data Quality Objectives (DQO) criteria. The Qualifier code of "ND" was given to samples to indicate that no value detected, zero reported. The samples listed as AA indicate a sample pressure out of limits. The sample listed as BI indicates the sample was damaged in transit. No samples were taken at location C1, C6, C8, or C9 during this period.

Location	Date	Qualifier	EtO Concentration (ug/m <sup>3</sup> )
C2	1/22/2021	LK, 2	0.37
C2	1/28/2021	LK	0.31
C2	2/03/2021		0.09
C2 QA	2/03/2021	2	0.12
C2	2/09/2021		0.37
C2	2/15/2021	2	0.08
C2	2/21/2021		0.09
C2	2/27/2021		0.12
C3	1/22/2021		0.70
C3	1/28/2021		0.19
C3	2/03/2021	U, ND	0.00
C3	2/09/2021		0.16

Location		Date		Qualifier		EtO Concentration (ug/m <sup>3</sup> )
C3 QA		2/09/2021				0.40
C3		2/15/2021				BI
C3		2/21/2021				0.06
C3		2/27/2021				0.20
C4		1/22/2021				0.63
C4		1/28/2021				AA
C4		2/03/2021				AA
C4		2/09/2021				0.14
C4		2/15/2021		D-F, LK		0.58
C4 QA		2/15/2021		D-F		0.33
C4		2/21/2021				0.40
C4		2/27/2021				0.21
C5		1/22/2021				0.41
C5		1/28/2021		LK		0.30
C5		2/03/2021				0.08
C5		2/09/2021				0.27
C5		2/15/2021		U, ND		0.00
C5		2/21/2021				0.06
C5 QA		2/21/2021				0.18
C5		2/27/2021		U, ND		0.00
C7		1/28/2021				1.37
C7		2/27/2021		2		0.08

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: Covington

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 01/29/21 10:44 through 03/11/21 13:21.

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:** 04/16/21 14:33  
**SUBMITTED:** 01/29/21 to 03/11/21  
**AQS SITE CODE:**  
**SITE CODE:** Covington

### ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
C2	1012903-01	Air	01/22/21 23:59	01/29/21 10:44
C3	1012903-02	Air	01/22/21 23:59	01/29/21 10:44
C4	1012903-03	Air	01/22/21 23:59	01/29/21 10:44
C5	1012903-04	Air	01/22/21 23:59	01/29/21 10:44
Covington FB	1020319-01	Air	01/26/21 23:59	02/03/21 11:26
C2	1020519-01	Air	01/28/21 23:59	02/05/21 11:29
C3	1020519-02	Air	01/28/21 23:59	02/05/21 11:29
C4	1020519-03	Air	01/28/21 23:59	02/05/21 11:29
C5	1020519-04	Air	01/28/21 23:59	02/05/21 11:29
C7 - SA	1020519-05	Air	01/28/21 23:59	02/05/21 11:29
C2	1021208-01	Air	02/03/21 23:59	02/12/21 11:03
C2-QA	1021208-02	Air	02/03/21 23:59	02/12/21 11:03
C3	1021208-03	Air	02/03/21 23:59	02/12/21 11:03
C4	1021208-04	Air	02/03/21 23:59	02/12/21 11:03
C5	1021208-05	Air	02/03/21 23:59	02/12/21 11:03
C3	1021908-01	Air	02/09/21 23:59	02/19/21 13:47
C3 QA	1021908-02	Air	02/09/21 23:59	02/19/21 13:47
C4	1021908-03	Air	02/09/21 23:59	02/19/21 13:47
C5	1021908-04	Air	02/09/21 23:59	02/19/21 13:47
C2	1021908-05	Air	02/09/21 23:59	02/19/21 13:47
C2	1022211-01	Air	02/15/21 23:59	02/22/21 12:20
C4	1022211-03	Air	02/15/21 23:59	02/22/21 12:20



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**AQS SITE CODE:**

**SITE CODE:** Covington

C4-QA	1022211-04	Air	02/15/21 23:59	02/22/21 12:20
C5	1022211-05	Air	02/15/21 23:59	02/22/21 12:20
C2	1030510-01	Air	02/21/21 23:59	03/05/21 12:42
C3	1030510-02	Air	02/21/21 23:59	03/05/21 12:42
C4	1030510-03	Air	02/21/21 23:59	03/05/21 12:42
C5	1030510-04	Air	02/21/21 23:59	03/05/21 12:42
C5 - QA	1030510-05	Air	02/21/21 23:59	03/05/21 12:42
C5	1031029-01	Air	02/27/21 23:59	03/10/21 14:10
C2	1031121-01	Air	02/27/21 23:59	03/11/21 13:21
C3	1031121-02	Air	02/27/21 23:59	03/11/21 13:21
C4	1031121-03	Air	02/27/21 23:59	03/11/21 13:21
C7 - SA	1031121-04	Air	02/27/21 23:59	03/11/21 13:21



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1012903-01

Sampled: 01/22/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: A21056

Received: 01/29/21 10:44

Comments:

Analyzed: 02/18/21 05:58

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.202	0.37	LK	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1012903-02

Sampled: 01/22/21 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: SAT013

Received: 01/29/21 10:44

Comments:

Analyzed: 02/18/21 06:58

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.389	0.70		0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1012903-03

Sampled: 01/22/21 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT012

Received: 01/29/21 10:44

Comments:

Analyzed: 02/18/21 12:38

### 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	0.346	0.63		0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1012903-04

Sampled: 01/22/21 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: SAT003

Received: 01/29/21 10:44

Comments:

Analyzed: 02/18/21 14:37

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.228	0.41		0.0285



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REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: Covington FB

Lab ID: 1020319-01

Sampled: 01/26/21 23:59

Pressure @ Receipt: 29.50" Hg

Canister #: A21011

Received: 02/03/21 11:26

Comments: Field Blank

Analyzed: 02/23/21 19:14

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1020519-01

Sampled: 01/28/21 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: A21033

Received: 02/05/21 11:29

Comments:

Analyzed: 02/23/21 22:35

### 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	0.173	0.31	LK	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1020519-02

Sampled: 01/28/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 0044

Received: 02/05/21 11:29

Comments:

Analyzed: 02/23/21 23:36

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.103	0.19		0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1020519-03

Sampled: 01/28/21 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 5110

Received: 02/05/21 11:29

Comments:

Analyzed: 02/24/21 00:37

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0807	0.15	LK	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1020519-04

Sampled: 01/28/21 23:59

Pressure @ Receipt: 0 psig

Canister #: 5125

Received: 02/05/21 11:29

Comments:

Analyzed: 02/24/21 01:38

### 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	0.165	0.30	LK	0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C7 - SA

Lab ID: 1020519-05

Sampled: 01/28/21 23:59

Pressure @ Receipt: 0 psig

Canister #: SAT166

Received: 02/05/21 11:29

Comments:

Analyzed: 02/24/21 02:39

### 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	0.759	1.37		0.0285



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1021208-01

Sampled: 02/03/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 110305

Received: 02/12/21 11:03

Comments:

Analyzed: 02/26/21 01:45

### 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	0.0513	0.09		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2-QA

Lab ID: 1021208-02

Sampled: 02/03/21 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 110252

Received: 02/12/21 11:03

Comments: Received at ambient

Analyzed: 02/26/21 03:47

### 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	0.0649	0.12		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1021208-03

Sampled: 02/03/21 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 110258

Received: 02/12/21 11:03

Comments:

Analyzed: 02/26/21 05:48

### 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	ND	ND	U	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1021208-04

Sampled: 02/03/21 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 111219

Received: 02/12/21 11:03

Comments:

Analyzed: 02/26/21 06:49

### 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	0.0423	0.08		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1021208-05

Sampled: 02/03/21 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 114366

Received: 02/12/21 11:03

Comments:

Analyzed: 02/26/21 07:50

### 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	0.0421	0.08		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1021908-01

Sampled: 02/09/21 23:59

Pressure @ Receipt: 3.5" Hg

Canister #: SAT117

Received: 02/19/21 13:47

Comments:

Analyzed: 03/01/21 16:56

### 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	0.0905	0.16		0.0261



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REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3 QA

Lab ID: 1021908-02

Sampled: 02/09/21 23:59

Pressure @ Receipt: 1.6" Hg

Canister #: SAT097

Received: 02/19/21 13:47

Comments:

Analyzed: 03/01/21 18:58

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.224	0.40		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 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1021908-03

Sampled: 02/09/21 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 110306

Received: 02/19/21 13:47

Comments:

Analyzed: 03/01/21 20:59

### 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	0.0763	0.14		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1021908-04

Sampled: 02/09/21 23:59

Pressure @ Receipt: 2.0" Hg

Canister #: 110257

Received: 02/19/21 13:47

Comments:

Analyzed: 03/01/21 22:00

### 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	0.148	0.27		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1021908-05

Sampled: 02/09/21 23:59

Pressure @ Receipt: 2.5" Hg

Canister #: SAT016

Received: 02/19/21 13:47

Comments:

Analyzed: 03/01/21 23:00

### 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	0.202	0.37		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1022211-01

Sampled: 02/15/21 23:59

Pressure @ Receipt: 9.5" Hg

Canister #: 19649

Received: 02/22/21 12:20

Comments:

Analyzed: 03/03/21 02:14

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0436	0.08		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1022211-03

Sampled: 02/15/21 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: SAT073

Received: 02/22/21 12:20

Comments:

Analyzed: 03/03/21 03:14

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.321	0.58	D-F, LK	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4-QA

Lab ID: 1022211-04

Sampled: 02/15/21 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: A21086

Received: 02/22/21 12:20

Comments: Received at ambient

Analyzed: 03/03/21 05:16

### 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	0.181	0.33	D-F	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1022211-05

Sampled: 02/15/21 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 19293

Received: 02/22/21 12:20

Comments: Received at ambient

Analyzed: 03/03/21 07:17

### 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	ND	ND	U	0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1030510-01

Sampled: 02/21/21 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: 33240

Received: 03/05/21 12:42

Comments:

Analyzed: 03/05/21 21:36

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0505	0.09		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1030510-02

Sampled: 02/21/21 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 18876

Received: 03/05/21 12:42

Comments:

Analyzed: 03/05/21 22:37

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0355	0.06		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1030510-03

Sampled: 02/21/21 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: A21078

Received: 03/05/21 12:42

Comments:

Analyzed: 03/05/21 23:38

### 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	0.221	0.40		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1030510-04

Sampled: 02/21/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 19657

Received: 03/05/21 12:42

Comments:

Analyzed: 03/06/21 00:38

### 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	0.0319	0.06		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5 - QA

Lab ID: 1030510-05

Sampled: 02/21/21 23:59

Pressure @ Receipt: 0.90" Hg

Canister #: SAT118

Received: 03/05/21 12:42

Comments:

Analyzed: 03/06/21 02:40

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.100	0.18		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1031029-01

Sampled: 02/27/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 19284

Received: 03/10/21 14:10

Comments:

Analyzed: 03/19/21 18:21

### 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: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1031121-01

Sampled: 02/27/21 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 19294

Received: 03/11/21 13:21

Comments:

Analyzed: 03/20/21 06:32

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0673	0.12		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1031121-02

Sampled: 02/27/21 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: SAT151

Received: 03/11/21 13:21

Comments:

Analyzed: 03/20/21 07:33

### 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	0.110	0.20		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1031121-03

Sampled: 02/27/21 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 18831

Received: 03/11/21 13:21

Comments:

Analyzed: 03/20/21 08:34

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.114	0.21		0.0261



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FILE #: 4222.00

REPORTED: 04/16/21 14:33

SUBMITTED: 01/29/21 to 03/11/21

AQS SITE CODE:

SITE CODE: Covington

Description: C7 - SA

Lab ID: 1031121-04

Sampled: 02/27/21 23:59

Pressure @ Receipt: 0.4" Hg

Canister #: 33533

Received: 03/11/21 13:21

Comments:

Analyzed: 03/20/21 09:35

### 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	0.0442	0.08		0.0261



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**FILE #:** 4222.00  
**REPORTED:** 04/16/21 14:33  
**SUBMITTED:** 01/29/21 to 03/11/21  
**AQS SITE CODE:**  
**SITE CODE:** Covington

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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#### Duplicate (B1B1802-DUP1)

**Source: 1012903-03**

Prepared: 01/22/21 Analyzed: 02/18/21

Ethylene oxide	0.320	ppbv	0.35	7.60	25	
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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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### Batch B1B2308 - Summa Canister Prep

#### Blank (B1B2308-BLK1)

Prepared & Analyzed: 02/23/21

Ethylene oxide	ND	ppbv				U
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#### Duplicate (B1B2308-DUP1)

**Source: 1020519-05**

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

Ethylene oxide	0.736	ppbv	0.76	3.09	25	
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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-DUP3)

**Source: 1021208-01**

Prepared: 02/03/21 Analyzed: 02/26/21

Ethylene oxide	0.0571	ppbv	0.05	10.7	25	
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#### Duplicate (B1B2507-DUP4)

**Source: 1021208-02**

Prepared: 02/03/21 Analyzed: 02/26/21

Ethylene oxide	0.0655	ppbv	0.06	0.920	25	
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### Batch B1C0110 - Summa Canister Prep

#### Blank (B1C0110-BLK1)

Prepared & Analyzed: 03/01/21

Ethylene oxide	ND	ppbv				U
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#### Duplicate (B1C0110-DUP1)

**Source: 1021908-01**

Prepared: 02/09/21 Analyzed: 03/01/21

Ethylene oxide	0.0961	ppbv	0.09	6.00	25	
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#### Duplicate (B1C0110-DUP2)

**Source: 1021908-02**

Prepared: 02/09/21 Analyzed: 03/01/21

Ethylene oxide	0.232	ppbv	0.22	3.64	25	
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### Batch B1C0205 - Summa Canister Prep

#### Blank (B1C0205-BLK1)

Prepared & Analyzed: 03/02/21

Ethylene oxide	ND	ppbv				U
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#### Duplicate (B1C0205-DUP1)

**Source: 1022211-03**

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

Ethylene oxide	0.325	ppbv	0.32	1.39	25	
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#### Duplicate (B1C0205-DUP2)

**Source: 1022211-04**

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

Ethylene oxide	0.161	ppbv	0.18	11.5	25	
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### Batch B1C0506 - Summa Canister Prep

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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4244 International Pkwy, Suite 120  
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**FILE #:** 4222.00  
**REPORTED:** 04/16/21 14:33  
**SUBMITTED:** 01/29/21 to 03/11/21  
**AQS SITE CODE:**  
**SITE CODE:** Covington

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

#### Batch B1C0506 - Summa Canister Prep

##### Blank (B1C0506-BLK1)

Prepared & Analyzed: 03/05/21

Ethylene oxide	ND	ppbv				U
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##### Duplicate (B1C0506-DUP1)

**Source: 1030510-04**

Prepared: 02/21/21 Analyzed: 03/06/21

Ethylene oxide	ND	ppbv	0.03		25	U, LK
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##### Duplicate (B1C0506-DUP2)

**Source: 1030510-05**

Prepared: 02/21/21 Analyzed: 03/06/21

Ethylene oxide	0.0914	ppbv	0.10	9.19	25	
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#### Batch B1C1902 - Summa Canister Prep

##### Blank (B1C1902-BLK1)

Prepared & Analyzed: 03/19/21

Ethylene oxide	ND	ppbv				U
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##### Duplicate (B1C1902-DUP4)

**Source: 1031121-04**

Prepared: 02/27/21 Analyzed: 03/20/21

Ethylene oxide	0.0541	ppbv	0.04	20.1	25	
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**FILE #:** 4222.00  
**REPORTED:** 04/16/21 14:33  
**SUBMITTED:** 01/29/21 to 03/11/21  
**AQS SITE CODE:**  
**SITE CODE:** Covington

Analyte	Result	Units	% Difference	Limit (%)	Notes
<b>Air Toxics by EPA Compendium Method TO-15 - Quality Control</b>					
<i>Sequence 2102036</i>					
<b>Calibration Check (2102036-CCV1)</b>			Prepared & Analyzed: 02/17/21		
Ethylene oxide	2.91	ppbv	20.6	30.00	
<i>Sequence 2102038</i>					
<b>Calibration Check (2102038-CCV1)</b>			Prepared & Analyzed: 02/18/21		
Ethylene oxide	2.88	ppbv	18.9	30.00	
<i>Sequence 2102046</i>					
<b>Calibration Check (2102046-CCV1)</b>			Prepared & Analyzed: 02/23/21		
Ethylene oxide	3.06	ppbv	26.7	30.00	
<i>Sequence 2102047</i>					
<b>Calibration Check (2102047-CCV1)</b>			Prepared & Analyzed: 02/23/21		
Ethylene oxide	2.27	ppbv	-9.0	30.00	
<i>Sequence 2102052</i>					
<b>Calibration Check (2102052-CCV1)</b>			Prepared & Analyzed: 02/25/21		
Ethylene oxide	2.34	ppbv	-6.5	30.00	
<i>Sequence 2103006</i>					
<b>Calibration Check (2103006-CCV1)</b>			Prepared & Analyzed: 03/01/21		
Ethylene oxide	2.41	ppbv	-3.6	30.00	
<i>Sequence 2103009</i>					
<b>Calibration Check (2103009-CCV1)</b>			Prepared & Analyzed: 03/02/21		
Ethylene oxide	2.52	ppbv	0.7	30.00	
<i>Sequence 2103026</i>					
<b>Calibration Check (2103026-CCV1)</b>			Prepared & Analyzed: 03/05/21		
Ethylene oxide	2.68	ppbv	7.1	30.00	
<i>Sequence 2103056</i>					
<b>Calibration Check (2103056-CCV1)</b>			Prepared & Analyzed: 03/19/21		
Ethylene oxide	2.06	ppbv	-17.7	30.00	



## CERTIFICATE OF ANALYSIS

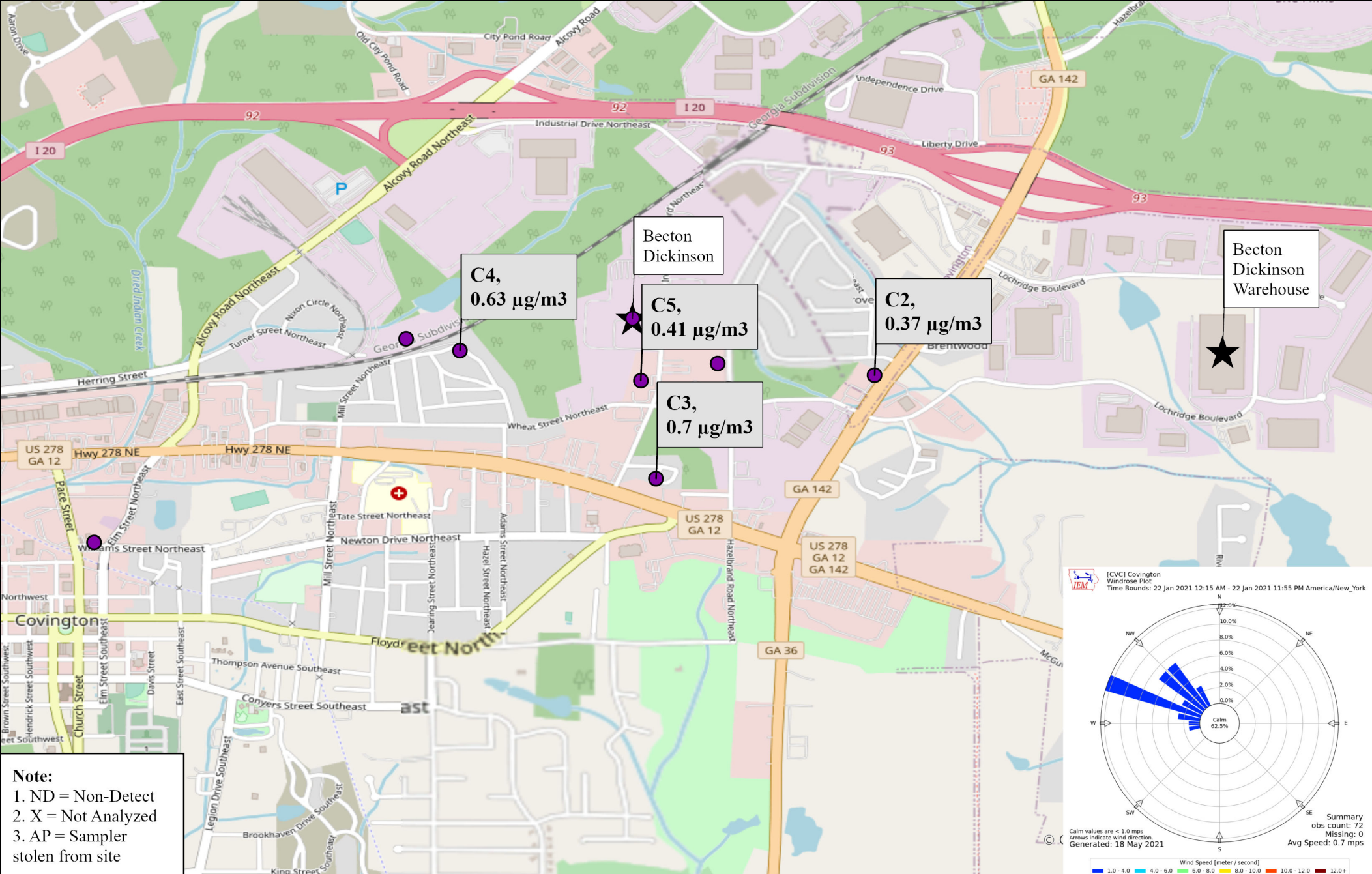
U.S. Environmental Protection Agency, Region 4  
4244 International Pkwy, Suite 120  
Atlanta, GA 30354  
**ATTN:** Ms. Jaime Gore  
**PHONE:** (404) 362-4912 **FAX:** (919) 541-0516

**FILE #:** 4222.00  
**REPORTED:** 04/16/21 14:33  
**SUBMITTED:** 01/29/21 to 03/11/21  
**AQS SITE CODE:**  
**SITE CODE:** Covington

### 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.



0 0.17 0.34  
 Miles



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

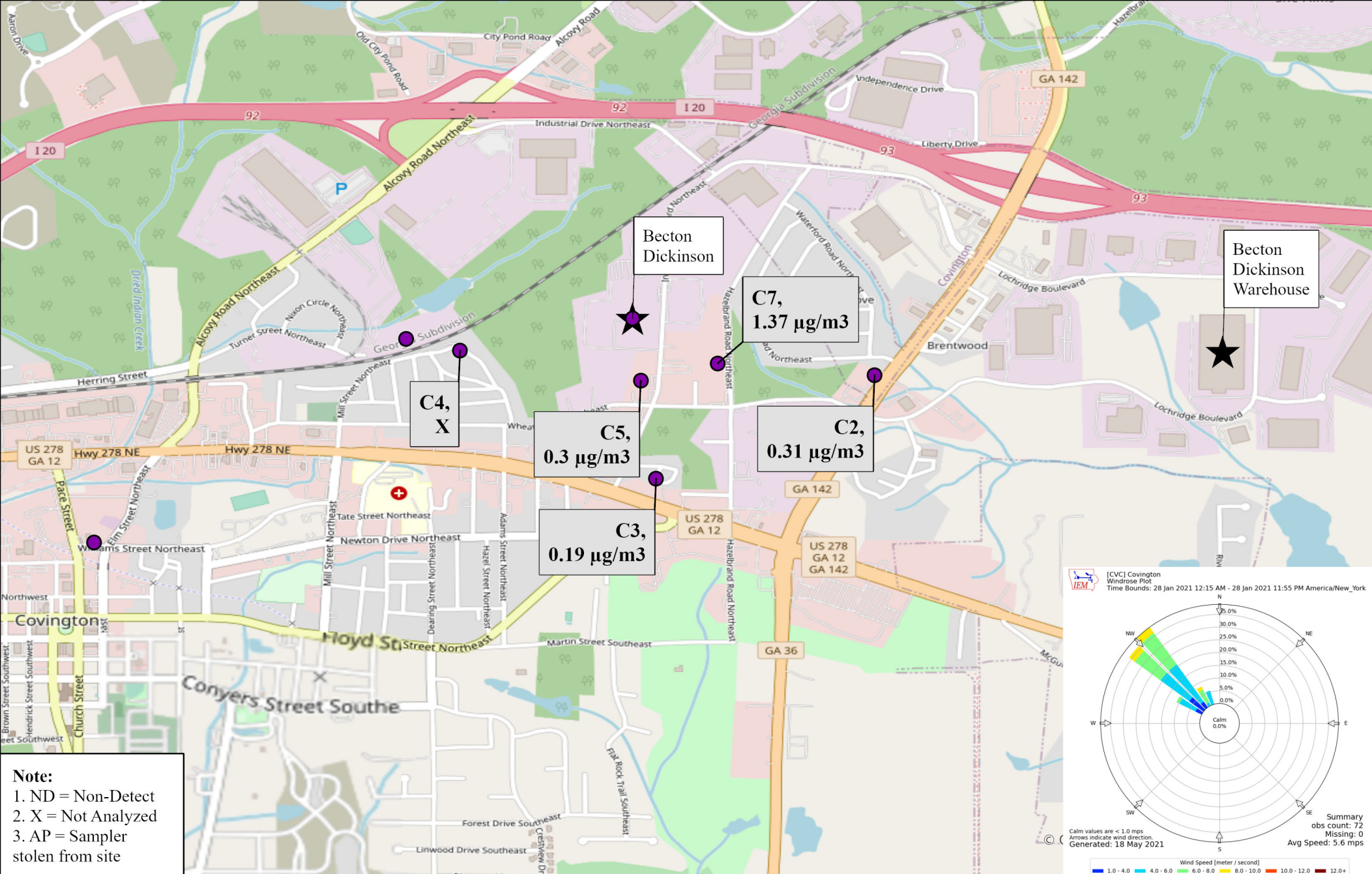
Ethylene Oxide Sampling  
 Covington, GA

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



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 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



0 0.17 0.34  
Miles



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

Ethylene Oxide Sampling  
Covington, GA

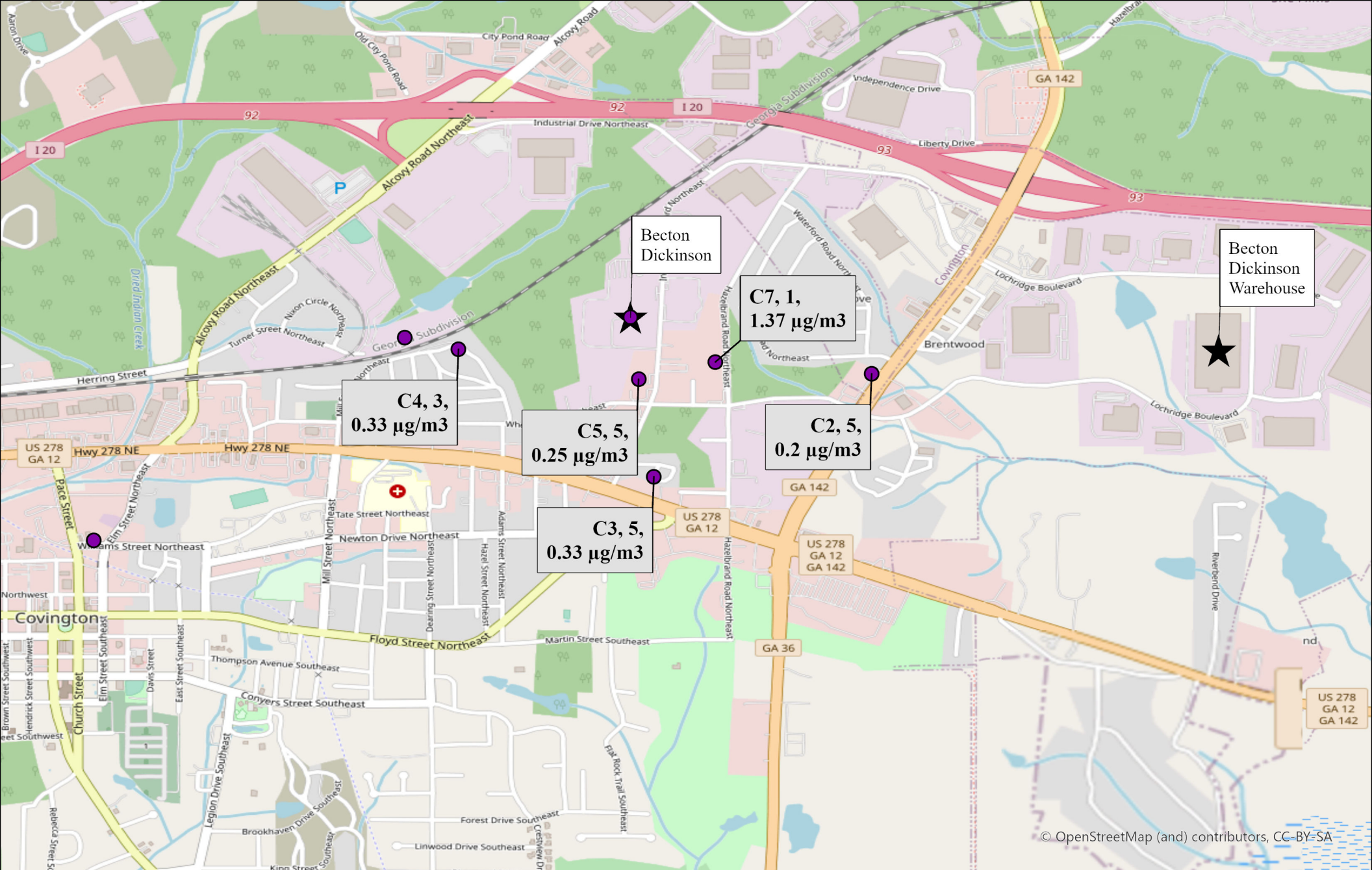
01/28/2021

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



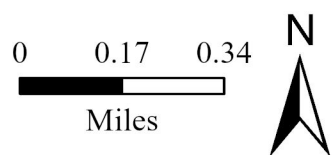
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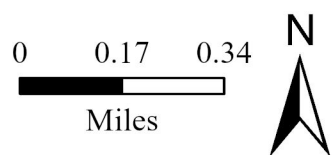
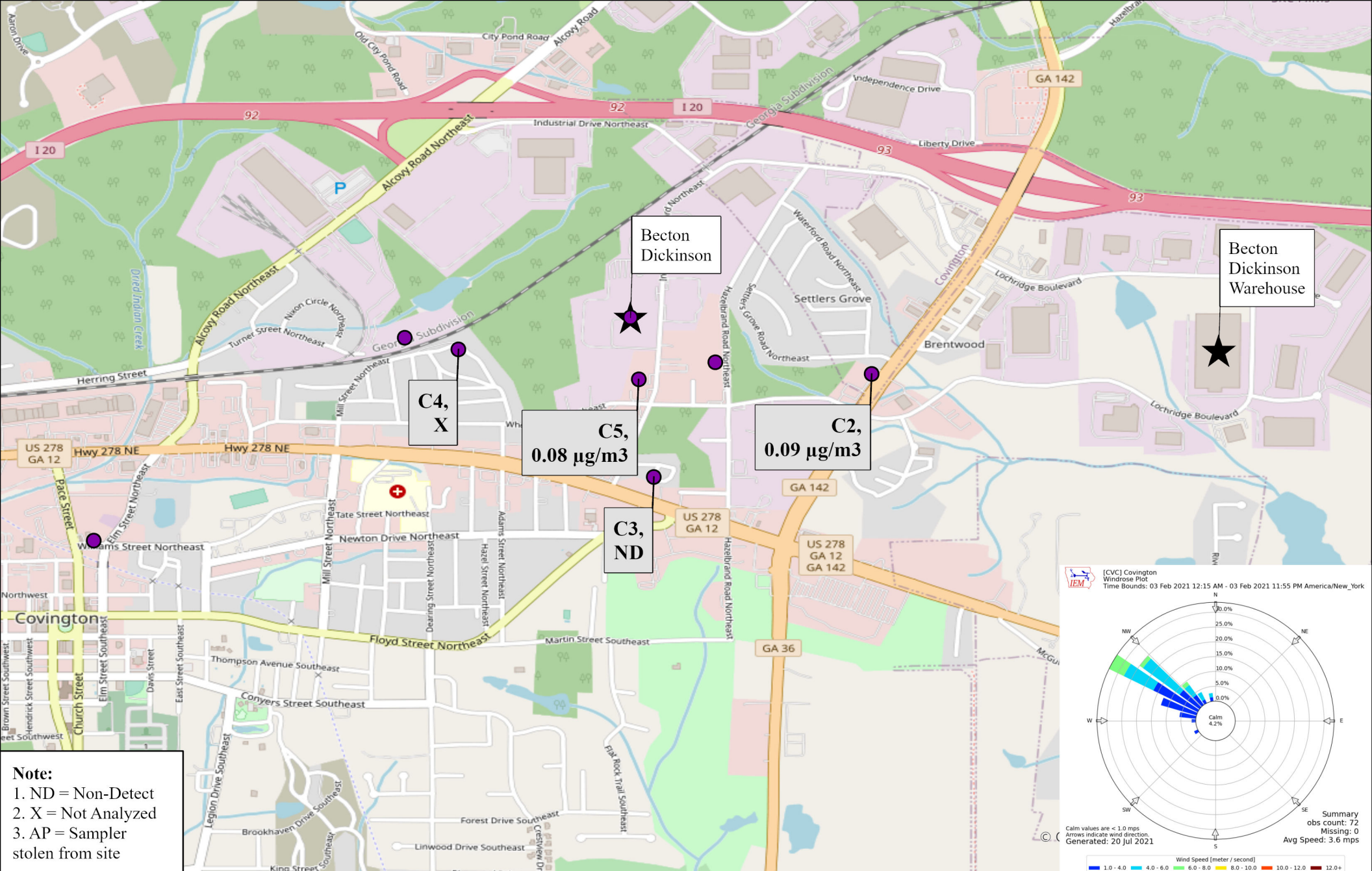


# Ethylene Oxide Sampling Covington, GA

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



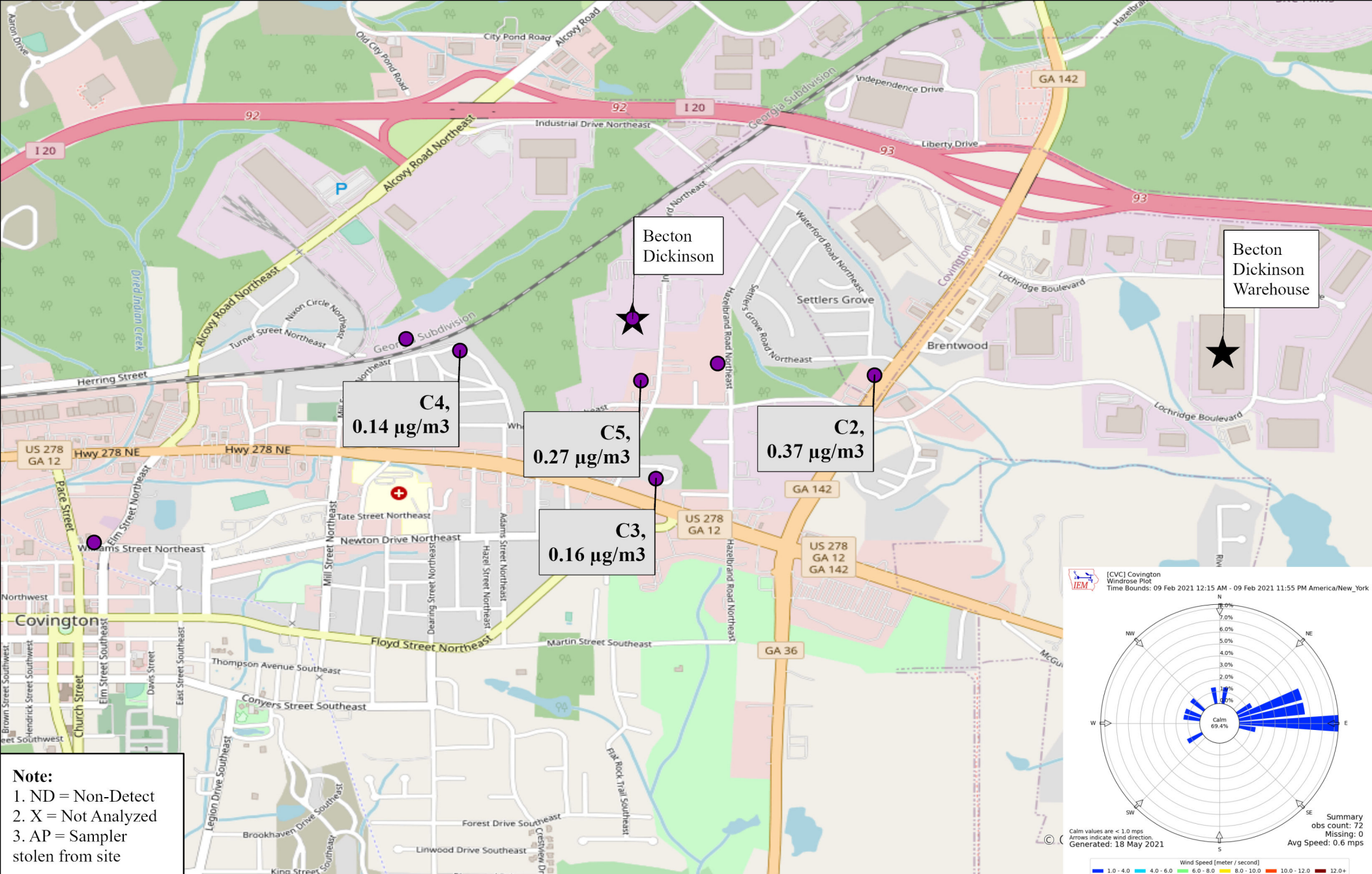
**Site ID, Number of Samples,  
Concentration ( $\mu\text{g}/\text{m}^3$ )**



**Site ID, Concentration (µg/m3)**

Ethylene Oxide Sampling  
Covington, GA

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



0 0.17 0.34  
Miles



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

Ethylene Oxide Sampling  
Covington, GA

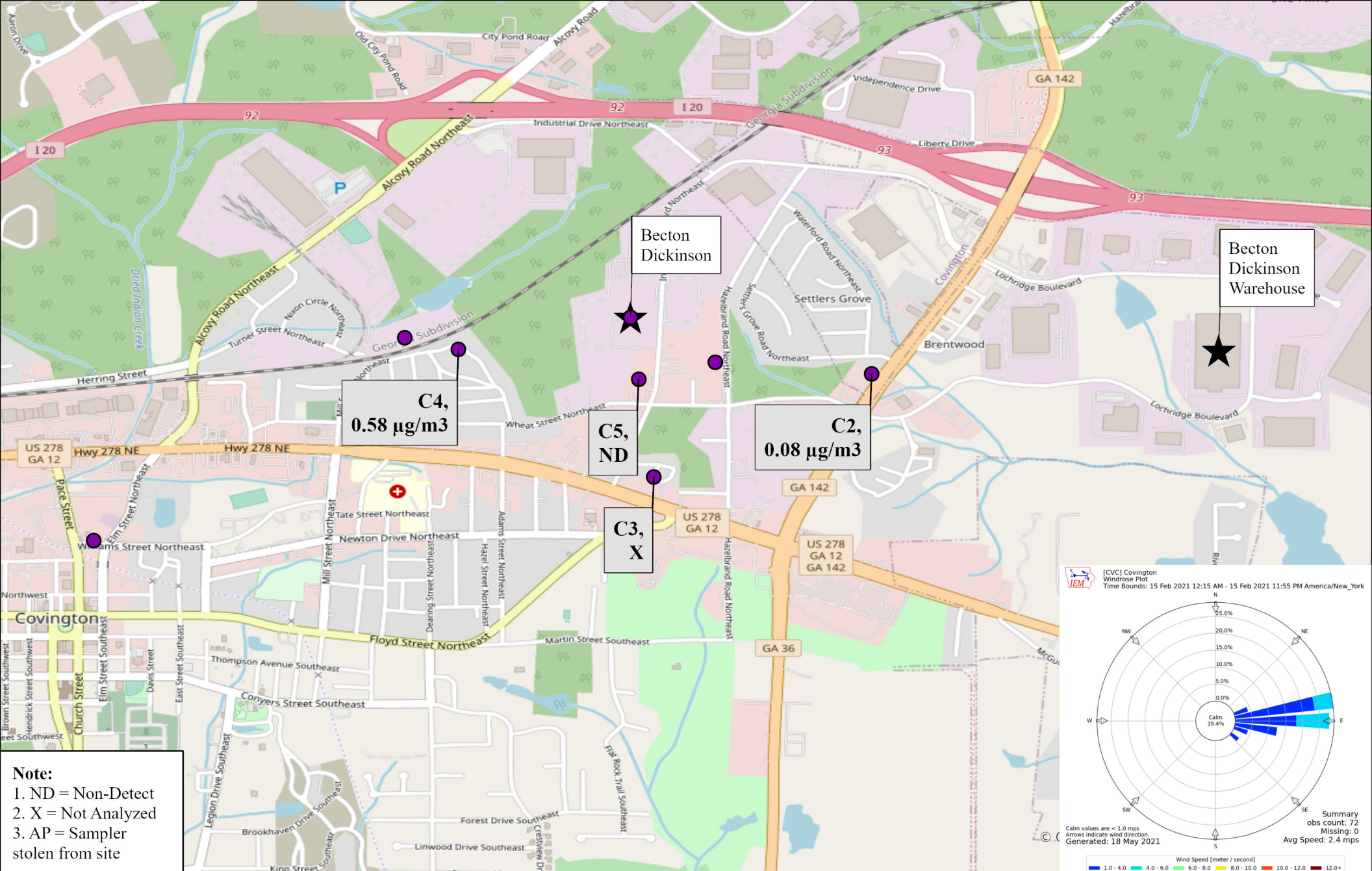
02/09/2021

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



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ENVIRONMENTAL PROTECTION DIVISION



0 0.17 0.34  
 Miles



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

Ethylene Oxide Sampling  
 Covington, GA

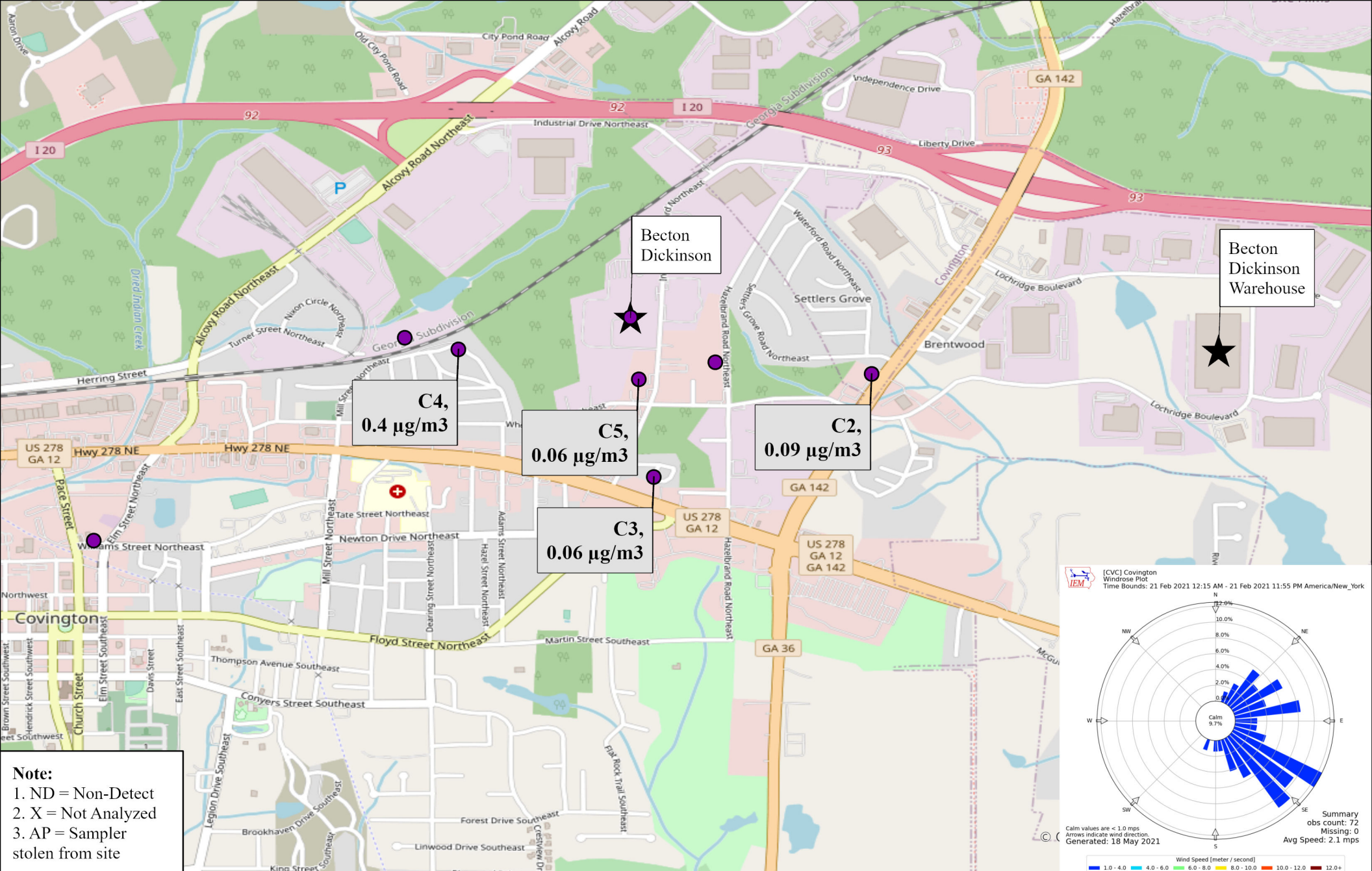
02/15/2021

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



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0 0.17 0.34  
 Miles



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

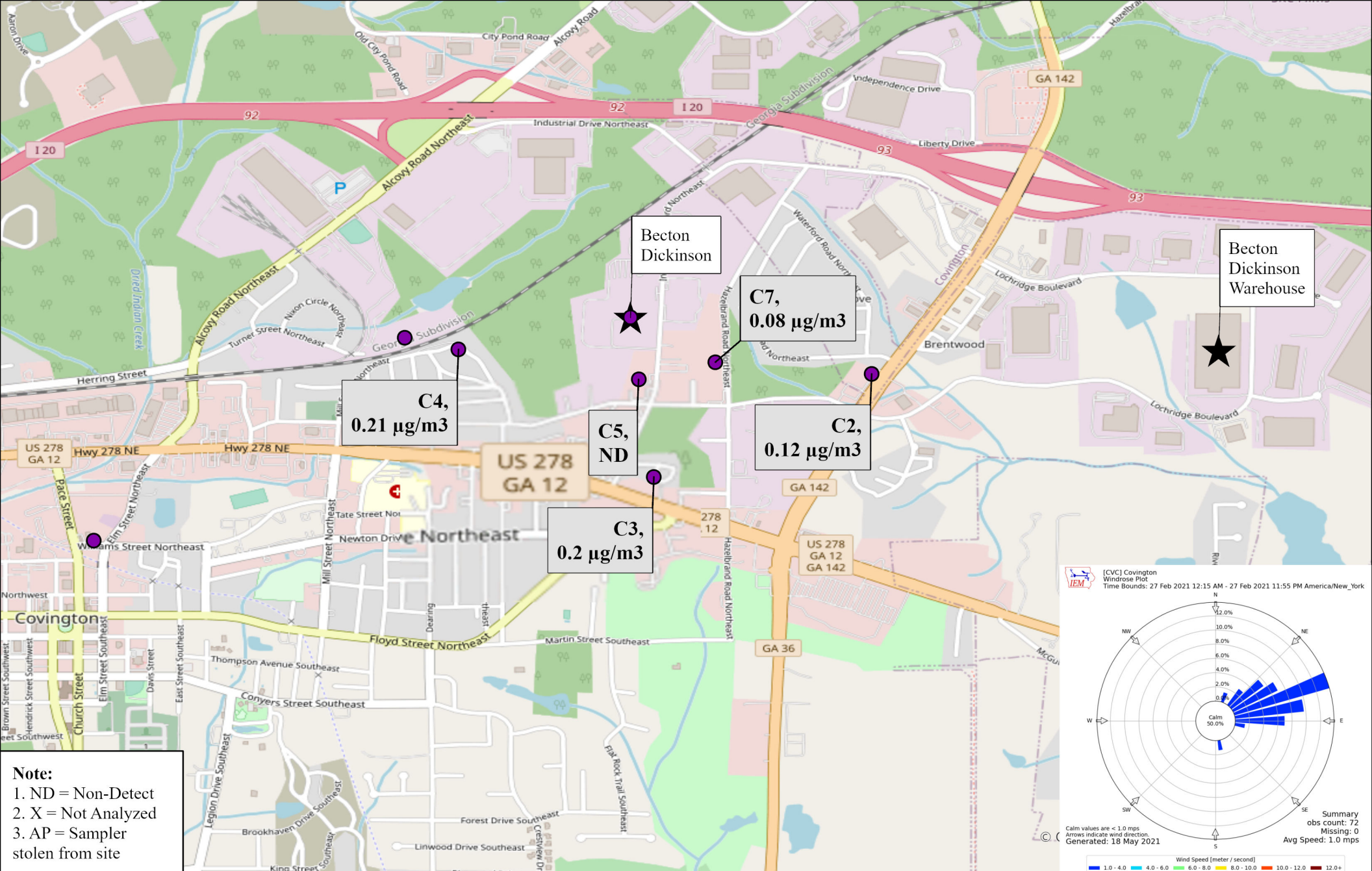
Ethylene Oxide Sampling  
 Covington, GA

02/21/2021  
 Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group



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 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



0 0.17 0.34  
 Miles



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

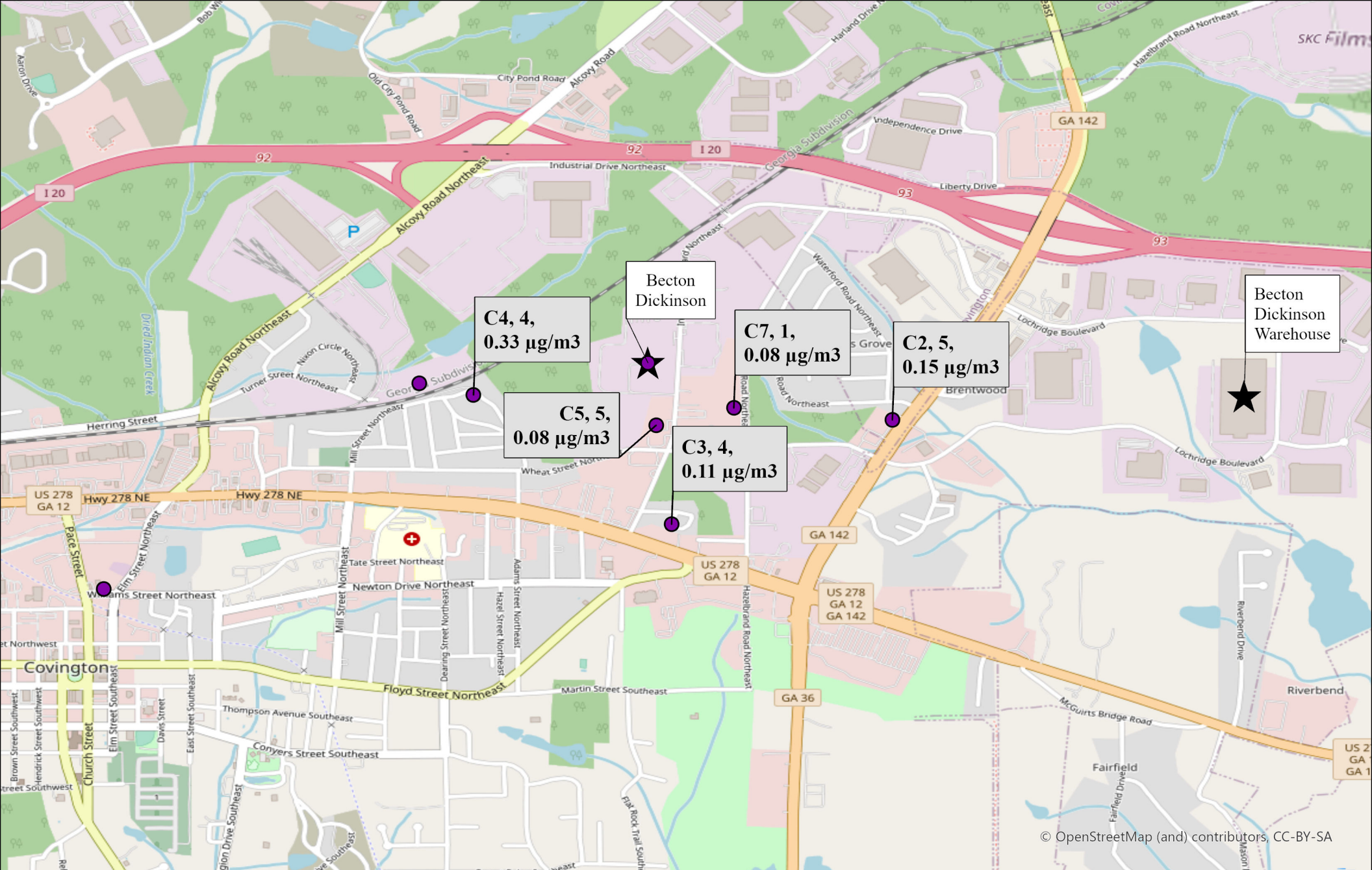
Ethylene Oxide Sampling  
 Covington, GA

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



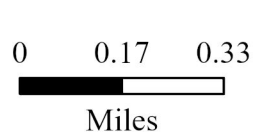
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 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



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# Ethylene Oxide Sampling Covington, GA



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

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