

June 19, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington April 15, 2020 – May 3, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of April 15, 2020 – May 3, 2020 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 “2” was given to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. The samples listed as AA indicate a sample pressure out of limits. The samples listed as TS indicate that the holding time of the sample was out of limits. No samples were taken at location C1, C6, C8, or C9 during this period.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
C2	04/15/2020		0.74
C2	04/21/2020	2	1.31
C2	04/27/2020	2	0.98
C2	05/03/2020		0.67
C3	04/15/2020	2	0.40
C3	04/21/2020	2	0.15
C3	04/27/2020		0.45
C3	05/03/2020		0.28
C4	04/15/2020	2	0.29
C4	04/21/2020	2	0.68
C4 QA	04/21/2020	2	0.44
C4	04/27/2020	2	0.09
C4	05/03/2020		AA
C5	04/15/2020		0.34
C5	04/21/2020	2	0.70

Location		Date		Qualifier		EtO Concentration (ug/m ³)
C5		04/27/2020		2		0.35
C5		05/03/2020				0.36
C7		04/27/2020				0.87

If you have any questions, please let me know.

DGO/do



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

June 05, 2020

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 04/22/20 10:07 through 05/13/20 12:05.

The test results in this report are in compliance with NELAC accreditation requirements for the certified parameters. All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

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	0042218-01	Air	04/15/20 23:59	04/22/20 10:07
C3	0042218-02	Air	04/15/20 23:59	04/22/20 10:07
C4	0042218-03	Air	04/15/20 23:59	04/22/20 10:07
C5	0042218-04	Air	04/15/20 23:59	04/22/20 10:07
C2	0050114-01	Air	04/21/20 23:59	05/01/20 12:43
C3	0050114-02	Air	04/21/20 23:59	05/01/20 12:43
C4	0050114-03	Air	04/21/20 23:59	05/01/20 12:43
C4 QA	0050114-04	Air	04/21/20 23:59	05/01/20 12:43
C5	0050114-05	Air	04/21/20 23:59	05/01/20 12:43
Covington FB	0050114-06	Air	04/24/20 00:00	05/01/20 12:43
C2	0050615-01	Air	04/27/20 23:59	05/06/20 11:00
C3	0050615-02	Air	04/27/20 23:59	05/06/20 11:00
C4	0050615-03	Air	04/27/20 23:59	05/06/20 11:00
C5	0050615-04	Air	04/27/20 23:59	05/06/20 11:00
C7 - SA	0050615-05	Air	04/27/20 23:59	05/06/20 11:00
C2	0051324-01	Air	05/03/20 23:59	05/13/20 12:05
C3	0051324-02	Air	05/03/20 23:59	05/13/20 12:05
C4	0051324-03	Air	05/03/20 23:59	05/13/20 12:05
C5	0051324-04	Air	05/03/20 23:59	05/13/20 12:05



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0042218-01

Sampled: 04/15/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: AZ38

Received: 04/22/20 10:07

Comments:

Analyzed: 05/01/20 02:52

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	0.408	0.74		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0042218-02

Sampled: 04/15/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 5145

Received: 04/22/20 10:07

Comments:

Analyzed: 05/01/20 03:48

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.224	0.40		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0042218-03

Sampled: 04/15/20 23:59

Pressure @ Receipt: 9.00" Hg

Canister #: SAT089

Received: 04/22/20 10:07

Comments:

Analyzed: 05/01/20 15:27

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	0.160	0.29		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0042218-04

Sampled: 04/15/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 19662

Received: 04/22/20 10:07

Comments:

Analyzed: 05/01/20 16:22

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	0.189	0.34		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0050114-01

Sampled: 04/21/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 5089

Received: 05/01/20 12:43

Comments:

Analyzed: 05/17/20 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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.724	1.31		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0050114-02

Sampled: 04/21/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 19665

Received: 05/01/20 12:43

Comments:

Analyzed: 05/17/20 01:32

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0849	0.15		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0050114-03

Sampled: 04/21/20 23:59

Pressure @ Receipt: 9.50" Hg

Canister #: A21067

Received: 05/01/20 12:43

Comments:

Analyzed: 05/17/20 02:27

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	0.374	0.68		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4 QA

Lab ID: 0050114-04

Sampled: 04/21/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 0049

Received: 05/01/20 12:43

Comments:

Analyzed: 05/17/20 04:18

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	0.243	0.44		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0050114-05

Sampled: 04/21/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT164

Received: 05/01/20 12:43

Comments:

Analyzed: 05/17/20 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	0.390	0.70		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: Covington FB

Lab ID: 0050114-06

Sampled: 04/24/20 00:00

Pressure @ Receipt: 30.00" Hg

Canister #: SAT008

Received: 05/01/20 12:43

Comments: Field Blank

Analyzed: 05/21/20 21:10

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	0.0175	0.03	U	0.0285



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ATTN: Ms. Jaime Gore

PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0050615-01

Sampled: 04/27/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 19656

Received: 05/06/20 11:00

Comments:

Analyzed: 05/22/20 01:49

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.544	0.98		0.0285



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PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0050615-02

Sampled: 04/27/20 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: SAT107

Received: 05/06/20 11:00

Comments:

Analyzed: 05/22/20 20:27

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	0.247	0.45		0.0285



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PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0050615-03

Sampled: 04/27/20 23:59

Pressure @ Receipt: 9.00" Hg

Canister #: 19648

Received: 05/06/20 11:00

Comments:

Analyzed: 05/22/20 03:39

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0513	0.09		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0050615-04

Sampled: 04/27/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: A21005

Received: 05/06/20 11:00

Comments:

Analyzed: 05/22/20 04:34

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	0.191	0.35		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C7 - SA

Lab ID: 0050615-05

Sampled: 04/27/20 23:59

Pressure @ Receipt: 2.00 " Hg

Canister #: SAT157

Received: 05/06/20 11:00

Comments:

Analyzed: 05/22/20 05:30

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	0.482	0.87		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0051324-01

Sampled: 05/03/20 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: 5045

Received: 05/13/20 12:05

Comments:

Analyzed: 05/23/20 08:26

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	0.371	0.67		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0051324-02

Sampled: 05/03/20 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 5105

Received: 05/13/20 12:05

Comments:

Analyzed: 05/26/20 17:22

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	0.157	0.28		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0051324-03

Sampled: 05/03/20 23:59

Pressure @ Receipt: 16.50" Hg

Canister #: 19663

Received: 05/13/20 12:05

Comments:

Analyzed: 05/26/20 18:18

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	0.105	0.19		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0051324-04

Sampled: 05/03/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: SAT117

Received: 05/13/20 12:05

Comments:

Analyzed: 05/26/20 19:13

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.200	0.36		0.0285



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FILE #: 4222.00

REPORTED: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

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 B0D2907 - Summa Canister Prep

Blank (B0D2907-BLK1)

Prepared: 04/29/20 Analyzed: 04/30/20

Ethylene oxide	ND	ppbv				U
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Batch B0E0102 - Summa Canister Prep

Blank (B0E0102-BLK1)

Prepared & Analyzed: 05/01/20

Ethylene oxide	ND	ppbv				U
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Batch B0E1502 - Summa Canister Prep

Blank (B0E1502-BLK1)

Prepared: 05/15/20 Analyzed: 05/16/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0E1502-DUP3)

Source: 0050114-03

Prepared: 04/21/20 Analyzed: 05/17/20

Ethylene oxide	0.364	ppbv	0.37	2.87	25	
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Duplicate (B0E1502-DUP4)

Source: 0050114-04

Prepared: 04/21/20 Analyzed: 05/17/20

Ethylene oxide	0.280	ppbv	0.24	14.0	25	
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Batch B0E2104 - Summa Canister Prep

Blank (B0E2104-BLK1)

Prepared & Analyzed: 05/21/20

Ethylene oxide	ND	ppbv				U
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Batch B0E2203 - Summa Canister Prep

Blank (B0E2203-BLK1)

Prepared: 05/18/20 Analyzed: 05/22/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0E2203-DUP1)

Source: 0051324-01

Prepared: 05/03/20 Analyzed: 05/23/20

Ethylene oxide	0.384	ppbv	0.37	3.47	25	
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Batch B0E2608 - Summa Canister Prep

Blank (B0E2608-BLK1)

Prepared & Analyzed: 05/26/20

Ethylene oxide	ND	ppbv				U
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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: 06/05/20 12:16

SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: Covington

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

Sequence 2004066

Calibration Check (2004066-CCV1)

Prepared: 04/29/20 Analyzed: 04/30/20

Ethylene oxide	1.97	ppbv	-21.1	30.00
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Sequence 2005002

Calibration Check (2005002-CCV1)

Prepared & Analyzed: 05/01/20

Ethylene oxide	2.30	ppbv	-7.9	30.00
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Sequence 2005034

Calibration Check (2005034-CCV1)

Prepared: 05/15/20 Analyzed: 05/16/20

Ethylene oxide	3.15	ppbv	26.0	30.00
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Sequence 2005050

Calibration Check (2005050-CCV1)

Prepared & Analyzed: 05/21/20

Ethylene oxide	2.66	ppbv	6.5	30.00
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Sequence 2005052

Calibration Check (2005052-CCV1)

Prepared & Analyzed: 05/22/20

Ethylene oxide	2.72	ppbv	10.2	30.00
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Sequence 2005056

Calibration Check (2005056-CCV1)

Prepared & Analyzed: 05/26/20

Ethylene oxide	2.55	ppbv	3.0	30.00
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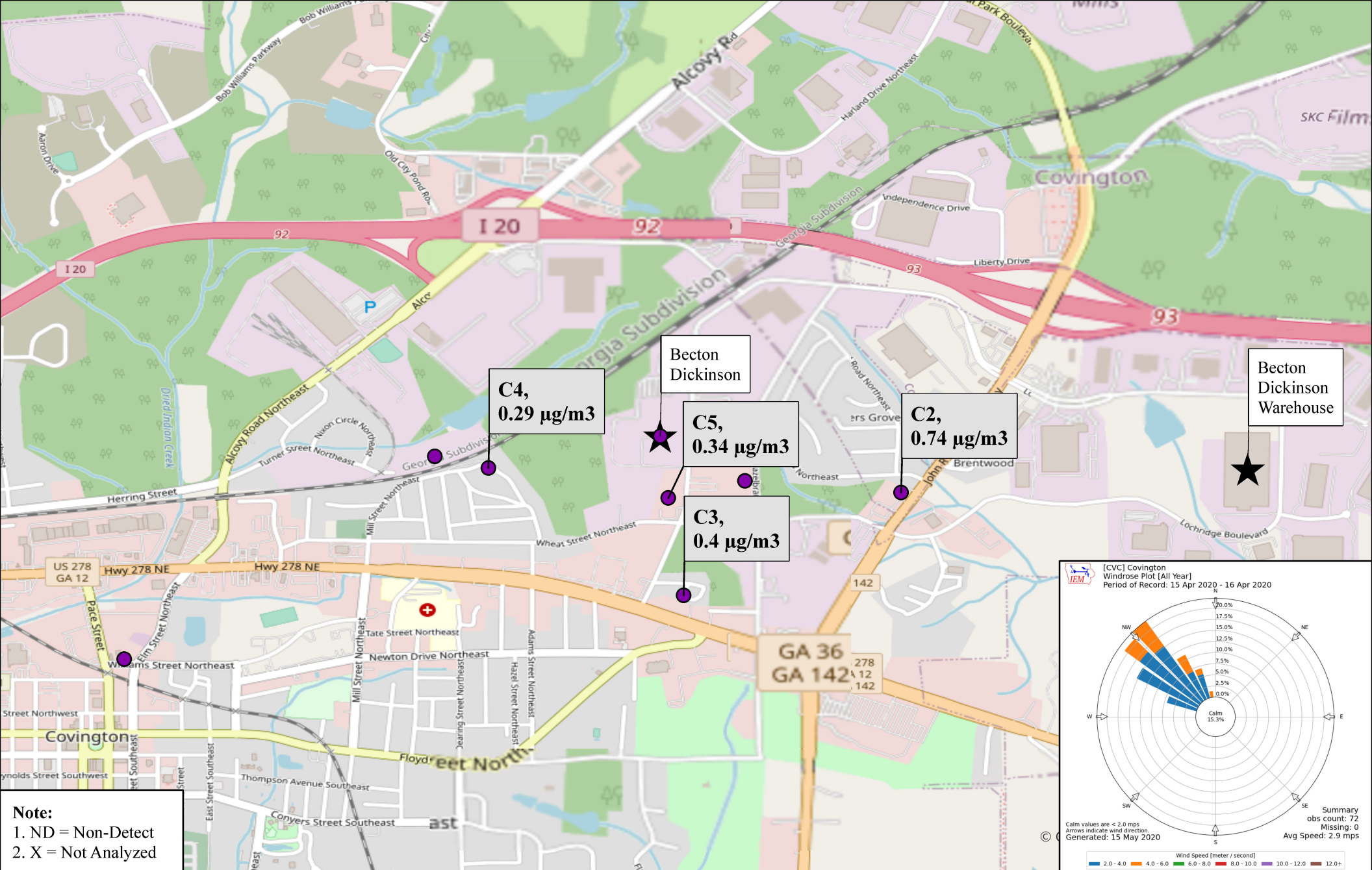
AQS SITE CODE:

SITE CODE: Covington

Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: The test results meet all requirements of NELAC; however the following analytes are not accredited: 1,2,4-trimethylbenzene, 1,2-dibromoethane, 1,2-dichloropropane, 1,3,5-trimethylbenzene, 1,3-butadiene, acetylene, acrolein, bromochloromethane, bromodichloromethane, bromoform, carbon disulfide, dibromochloromethane, dichlorodifluoromethane, dichlorotetrafluoroethane, ethyl acrylate, ethyl tert butyl ether, ethylene oxide, hexachloro-1,3-butadiene, n-octane, propylene, tert amyl methyl ether, tetrachloroethylene, trans-1,2-dichloroethylene, trichlorofluoromethane, and trichlorotrifluoroethane.



0 0.17 0.34
Miles



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

Ethylene Oxide Sampling
Covington, GA

04/15/2020

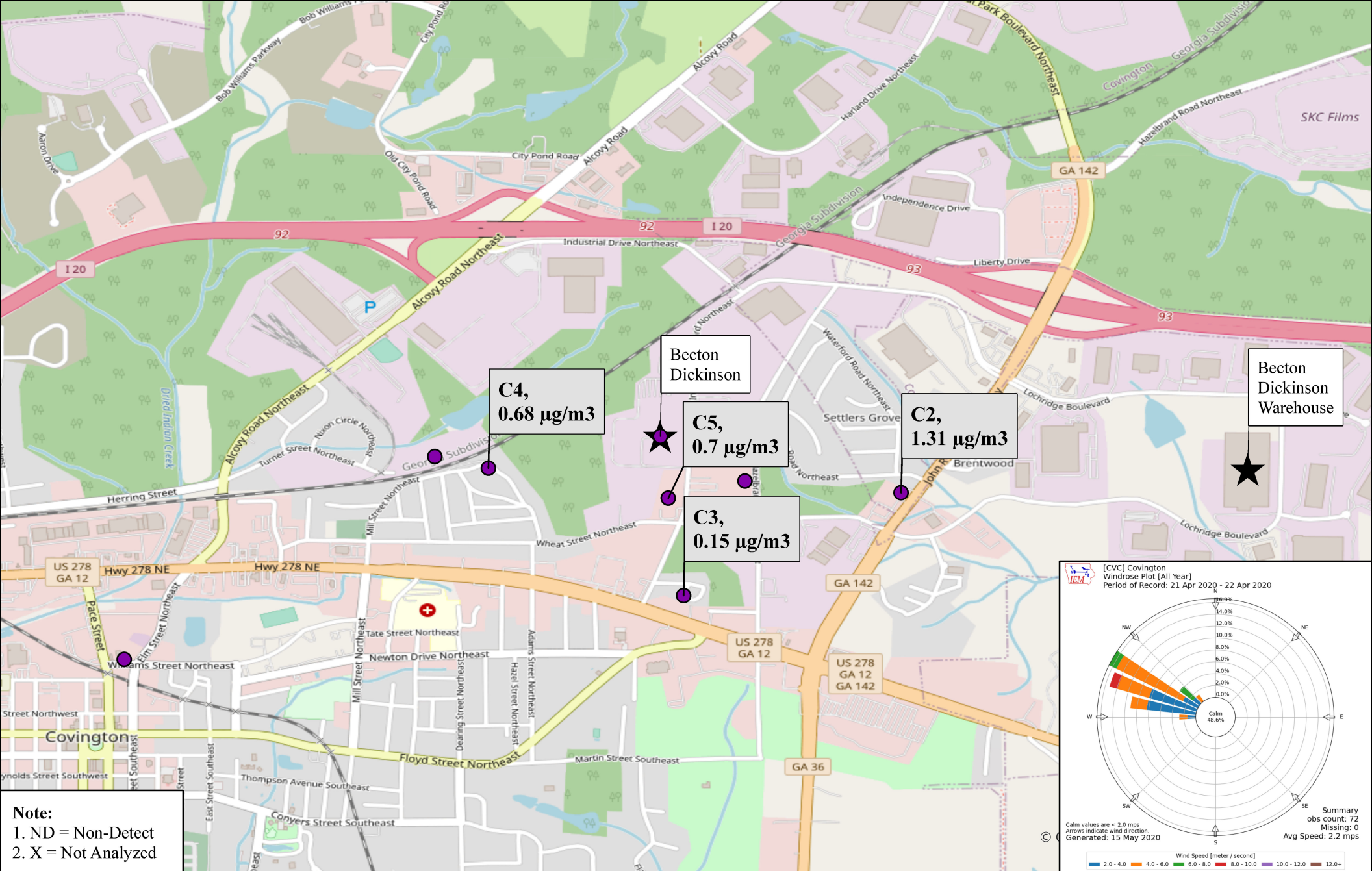
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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0 0.17 0.34
 Miles



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

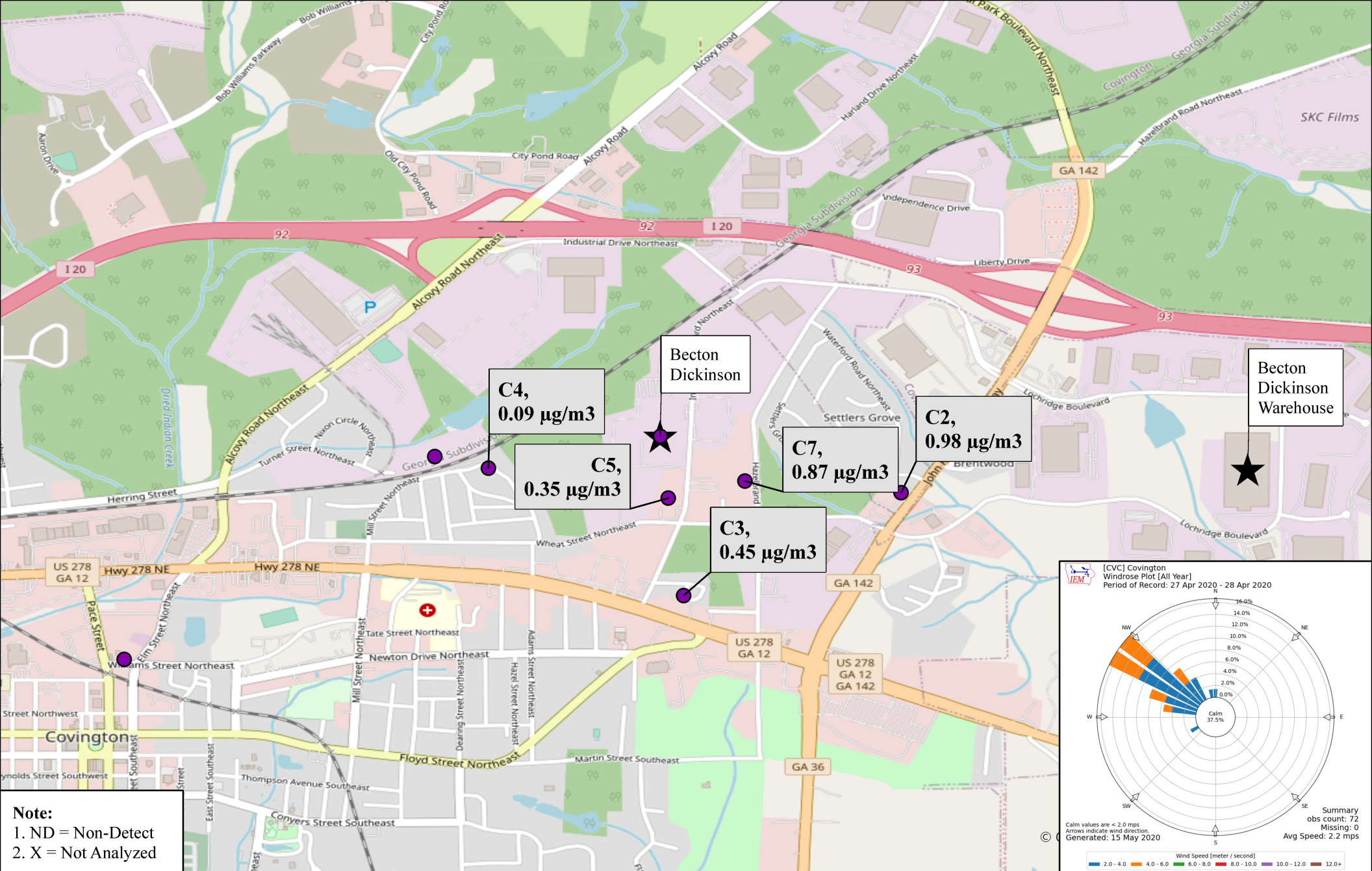
Ethylene Oxide Sampling
 Covington, GA

04/21/2020
 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

04/27/2020

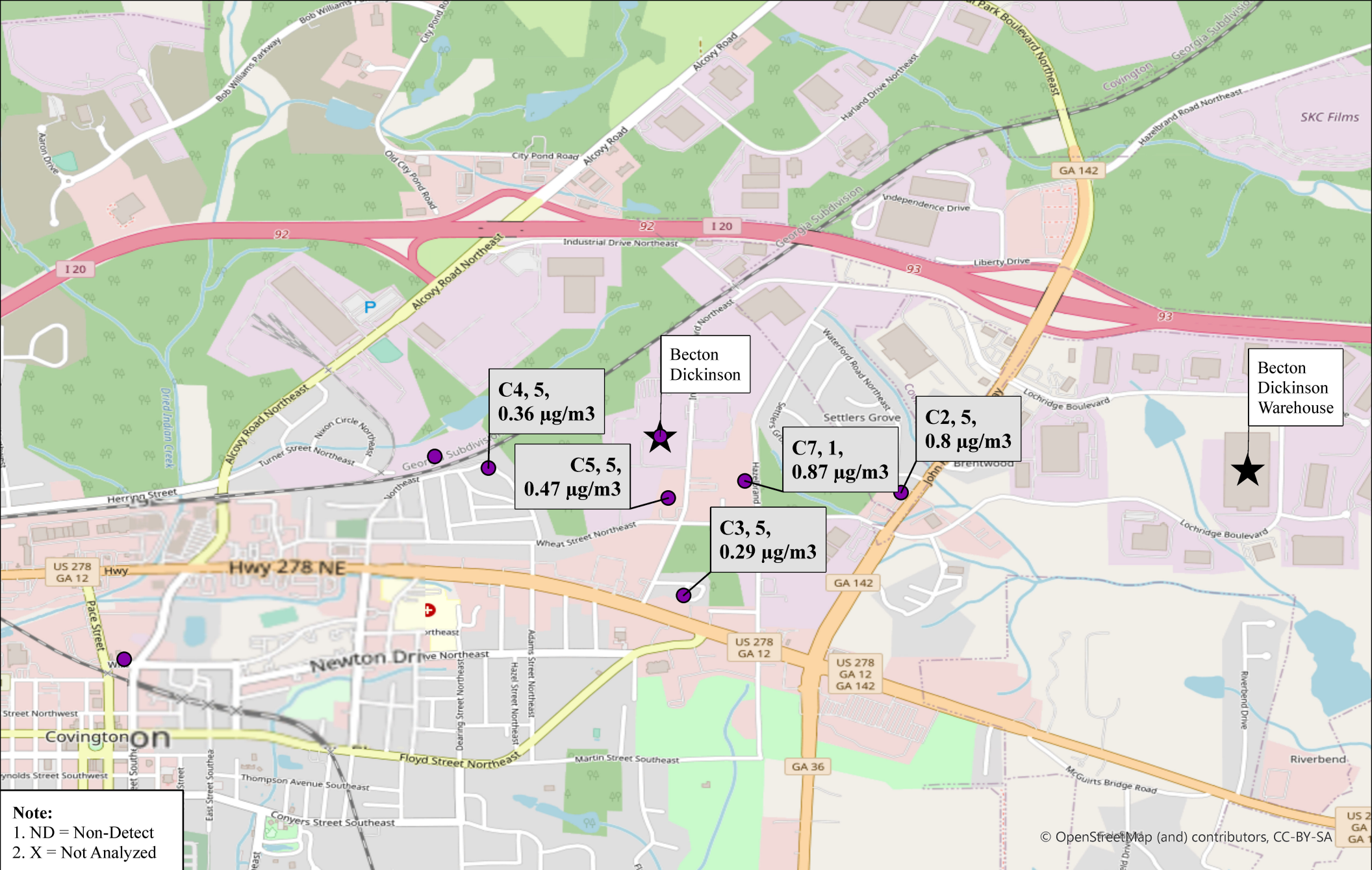
Sampled By: Georgia Environmental Protection Division

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Ethylene Oxide Sampling Covington, GA

April 2020 Site Average Values

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

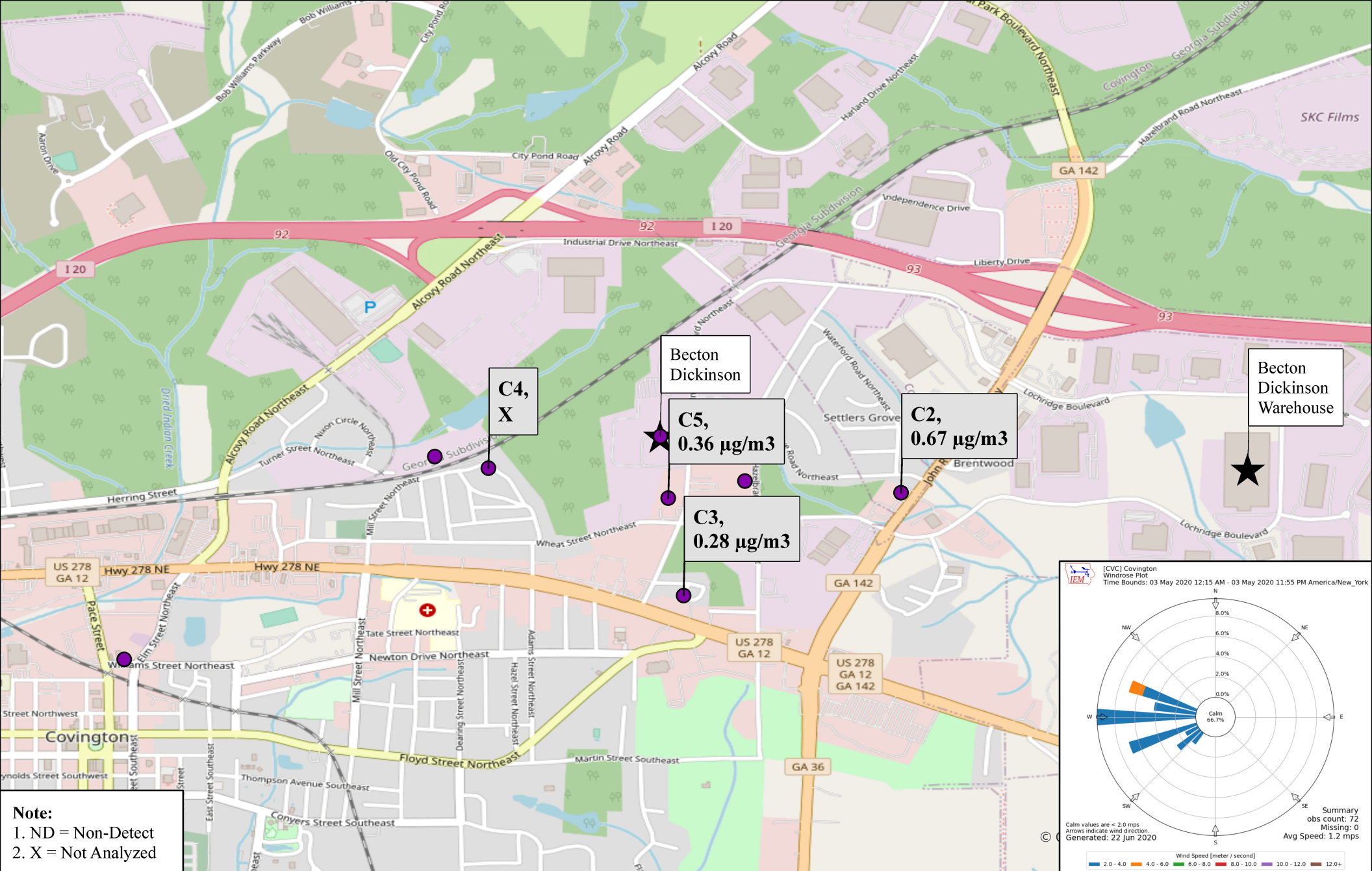
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0 0.17 0.34
 Miles



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

Ethylene Oxide Sampling
 Covington, GA

05/03/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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