

March 16, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief KH

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington November 5-23, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of November 5-23, 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 "LK" was given by ERG to indicate that the sample may be biased high. 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 sample listed as AN indicates the machine malfunctioned while collecting the sample. No samples were taken at location C1, C6, C8, or C9 during this period.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
C2	11/05/2020		0.21
C2	11/11/2020		0.20
C2	11/17/2020		0.28
C2	11/23/2020		0.35
C3	11/05/2020	LK, 2	0.41
C3	11/11/2020		0.13
C3	11/17/2020	2	0.08
C3	11/23/2020	LK, 2	0.35
C4	11/05/2020	LK	0.83
C4	11/11/2020		0.29
C4	11/17/2020	2	0.30
C4 QA	11/17/2020		0.15
C4	11/23/2020	LK	0.20
C5	11/05/2020	LK	0.48
C5	11/11/2020		0.67

Location		Date		Qualifier		EtO Concentration (ug/m ³)
C5		11/17/2020				0.10
C5		11/23/2020				0.20
C7		11/23/2020				AN

If you have any questions, please let me know.

DGO/do



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

January 07, 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 11/18/20 11:21 through 12/04/20 11:16.

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

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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: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

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	0111824-01	Air	11/05/20 23:59	11/18/20 11:21
C3	0111824-02	Air	11/05/20 23:59	11/18/20 11:21
C4	0111824-03	Air	11/05/20 23:59	11/18/20 11:21
C5	0111824-04	Air	11/05/20 23:59	11/18/20 11:21
C2	0111824-05	Air	11/11/20 23:59	11/18/20 11:21
C3	0111824-06	Air	11/11/20 23:59	11/18/20 11:21
C4	0111824-07	Air	11/11/20 23:59	11/18/20 11:21
C5	0111824-08	Air	11/11/20 23:59	11/18/20 11:21
C2	0112513-01	Air	11/17/20 23:59	11/25/20 12:31
C3	0112513-02	Air	11/17/20 23:59	11/25/20 12:31
C4	0112513-03	Air	11/17/20 23:59	11/25/20 12:31
C5	0112513-04	Air	11/17/20 23:59	11/25/20 12:31
C4 QA	0112513-05	Air	11/17/20 23:59	11/25/20 12:31
C2	0120411-01	Air	11/23/20 23:59	12/04/20 11:16
C3	0120411-02	Air	11/23/20 23:59	12/04/20 11:16
C4	0120411-03	Air	11/23/20 23:59	12/04/20 11:16
C5	0120411-04	Air	11/23/20 23:59	12/04/20 11:16



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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: 01/07/21 14:53
SUBMITTED: 11/18/20 to 12/04/20
AQS SITE CODE:
SITE CODE: Covington

Description: C2	Lab ID: 0111824-01	Sampled: 11/05/20 23:59
Pressure @ Receipt: 2.00" Hg	Canister #: SAT118	Received: 11/18/20 11:21
Comments:		Analyzed: 11/25/20 03:25

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	0.118	0.21		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0111824-02

Sampled: 11/05/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: SAT150

Received: 11/18/20 11:21

Comments:

Analyzed: 11/25/20 04:19

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	0.227	0.41	LK	0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0111824-03

Sampled: 11/05/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: SAT088

Received: 11/18/20 11:21

Comments:

Analyzed: 11/25/20 17:44

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	0.457	0.83	LK	0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0111824-04

Sampled: 11/05/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: AZ52

Received: 11/18/20 11:21

Comments:

Analyzed: 11/25/20 18:39

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	0.268	0.48	LK	0.0285



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REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0111824-05

Sampled: 11/11/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 18836

Received: 11/18/20 11:21

Comments:

Analyzed: 11/25/20 19:34

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	0.108	0.20		0.0285



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REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0111824-06

Sampled: 11/11/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: 18880

Received: 11/18/20 11:21

Comments:

Analyzed: 11/25/20 20:28

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	0.0701	0.13		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0111824-07

Sampled: 11/11/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: 18864

Received: 11/18/20 11:21

Comments:

Analyzed: 11/25/20 21:23

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.160	0.29		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0111824-08

Sampled: 11/11/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: SAT005

Received: 11/18/20 11:21

Comments:

Analyzed: 11/25/20 22:18

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	0.372	0.67		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0112513-01

Sampled: 11/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: A21069

Received: 11/25/20 12:31

Comments: Received at ambient pressure

Analyzed: 12/14/20 15:35

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.156	0.28		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0112513-02

Sampled: 11/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 2767

Received: 11/25/20 12:31

Comments: Received at ambient pressure

Analyzed: 12/14/20 16:30

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	0.0436	0.08		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0112513-03

Sampled: 11/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: A21099

Received: 11/25/20 12:31

Comments: Received at ambient pressure

Analyzed: 12/14/20 17:26

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	0.164	0.30		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0112513-04

Sampled: 11/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 19663

Received: 11/25/20 12:31

Comments: Received at ambient pressure

Analyzed: 12/14/20 19:16

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0535	0.10		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4 QA

Lab ID: 0112513-05

Sampled: 11/17/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 35156

Received: 11/25/20 12:31

Comments:

Analyzed: 12/14/20 20:11

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	0.0832	0.15		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0120411-01

Sampled: 11/23/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT152

Received: 12/04/20 11:16

Comments: Received at ambient pressure

Analyzed: 12/16/20 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	0.196	0.35		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0120411-02

Sampled: 11/23/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 5089

Received: 12/04/20 11:16

Comments: Received at ambient pressure

Analyzed: 12/16/20 00:59

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.191	0.35	LK	0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0120411-03

Sampled: 11/23/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 5085

Received: 12/04/20 11:16

Comments:

Analyzed: 12/16/20 01:54

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.110	0.20		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:53

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0120411-04

Sampled: 11/23/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: SAT179

Received: 12/04/20 11:16

Comments:

Analyzed: 12/16/20 02:49

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	0.112	0.20		0.0285



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SUBMITTED: 11/18/20 to 12/04/20
AQS SITE CODE:
SITE CODE: Covington

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B0K2406 - Summa Canister Prep</i>						
Blank (B0K2406-BLK1)			Prepared & Analyzed: 11/24/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0K2502 - Summa Canister Prep</i>						
Blank (B0K2502-BLK1)			Prepared & Analyzed: 11/25/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0L1003 - Summa Canister Prep</i>						
Blank (B0L1003-BLK1)			Prepared: 12/10/20 Analyzed: 12/14/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0L1003-DUP1)			Source: 0112513-03 Prepared: 11/17/20 Analyzed: 12/14/20			
Ethylene oxide	0.167	ppbv	0.16	2.24	25	
Duplicate (B0L1003-DUP2)			Source: 0112513-05 Prepared: 11/17/20 Analyzed: 12/14/20			
Ethylene oxide	0.0749	ppbv	0.08	10.5	25	
<i>Batch B0L1506 - Summa Canister Prep</i>						
Blank (B0L1506-BLK1)			Prepared & Analyzed: 12/15/20			
Ethylene oxide	ND	ppbv				U



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FILE #: 4222.00
REPORTED: 01/07/21 14:53
SUBMITTED: 11/18/20 to 12/04/20
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 2011051

Calibration Check (2011051-CCV1)

Prepared & Analyzed: 11/24/20

Ethylene oxide	3.03	ppbv	22.6	30.00
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Sequence 2011057

Calibration Check (2011057-CCV1)

Prepared & Analyzed: 11/25/20

Ethylene oxide	3.18	ppbv	28.4	30.00
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Sequence 2012018

Calibration Check (2012018-CCV1)

Prepared: 12/10/20 Analyzed: 12/14/20

Ethylene oxide	2.44	ppbv	-2.4	30.00
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Sequence 2012025

Calibration Check (2012025-CCV1)

Prepared & Analyzed: 12/15/20

Ethylene oxide	2.57	ppbv	2.7	30.00
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Calibration Check (2012025-CCV2)

Prepared & Analyzed: 12/15/20

Ethylene oxide	2.68	ppbv	7.2	30.00
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CERTIFICATE OF ANALYSIS

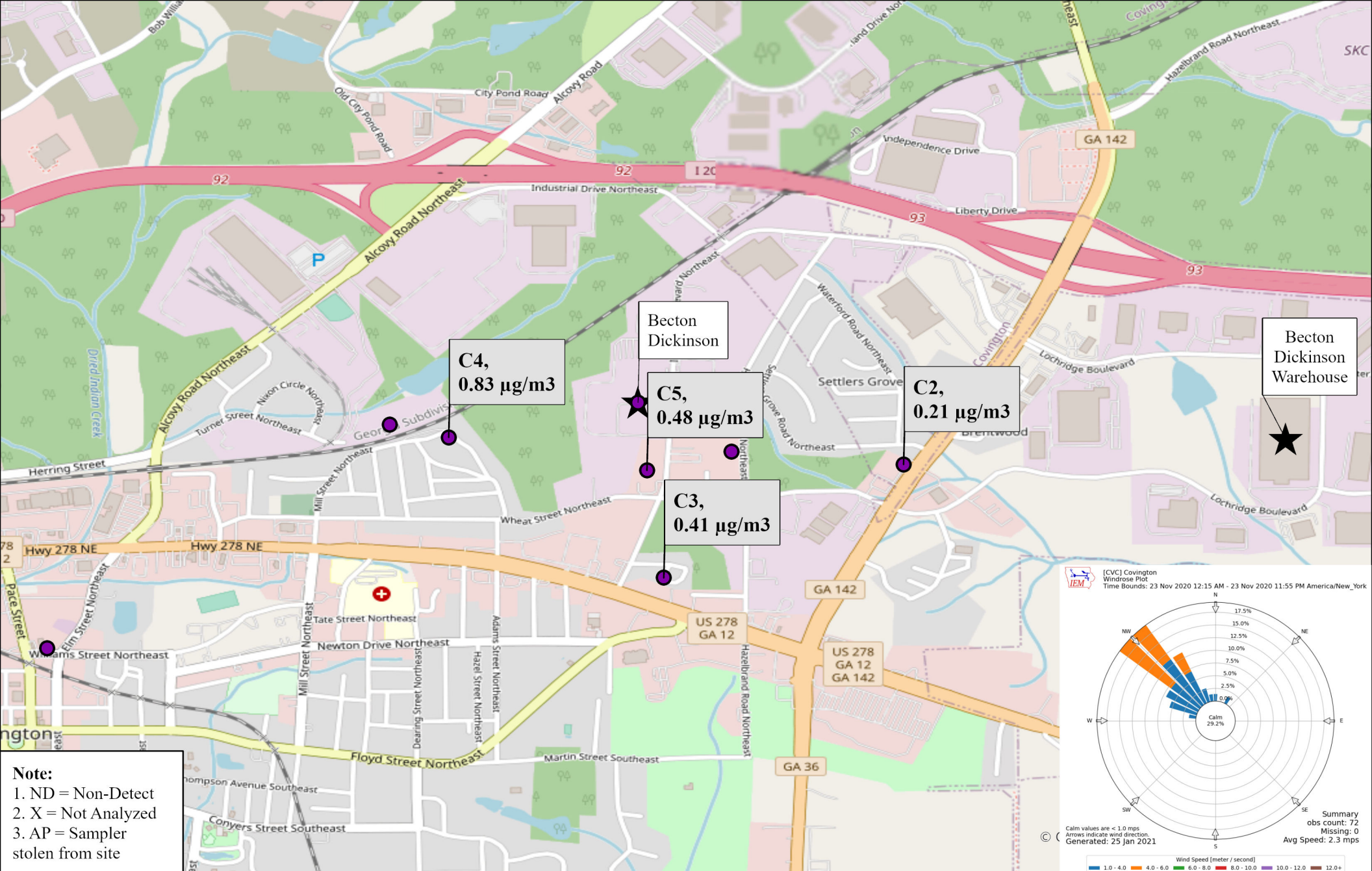
U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
REPORTED: 01/07/21 14:53
SUBMITTED: 11/18/20 to 12/04/20
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
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 0.15 0.3
Miles



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

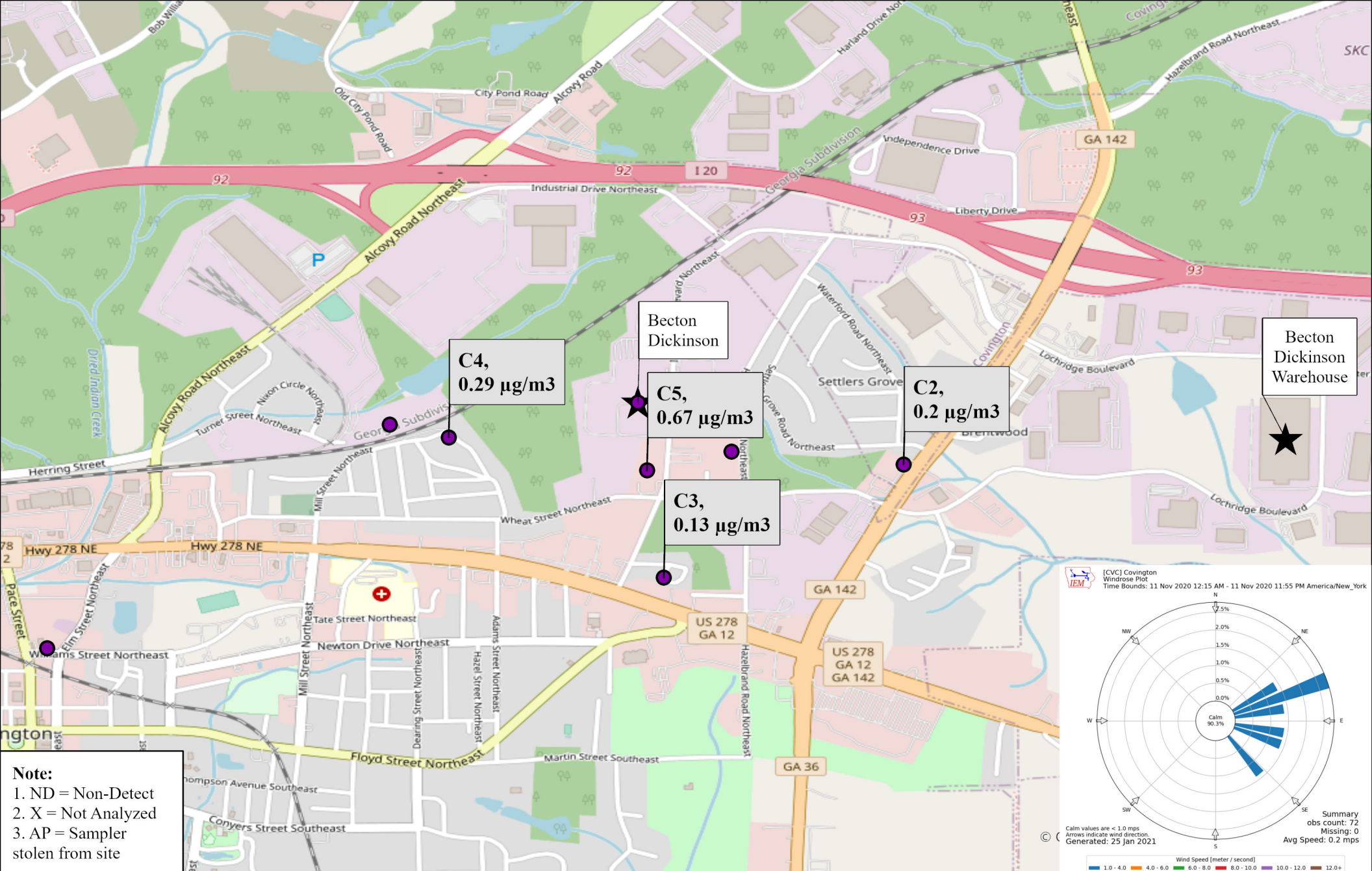
Ethylene Oxide Sampling
Covington, GA

11/05/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



GEORGIA
 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



0 0.15 0.3
Miles



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

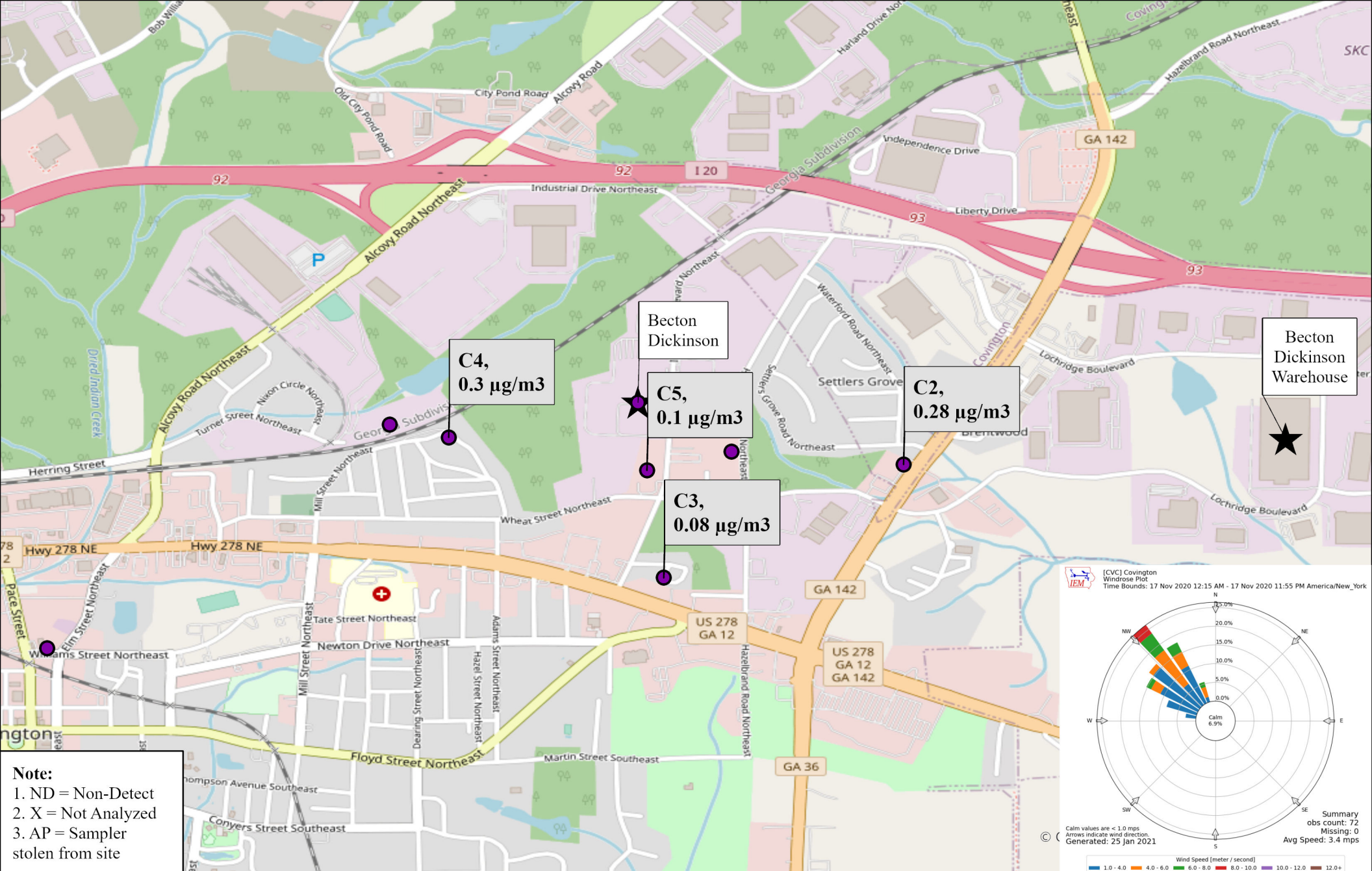
Ethylene Oxide Sampling
Covington, GA

11/11/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



0 0.15 0.3
 Miles



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

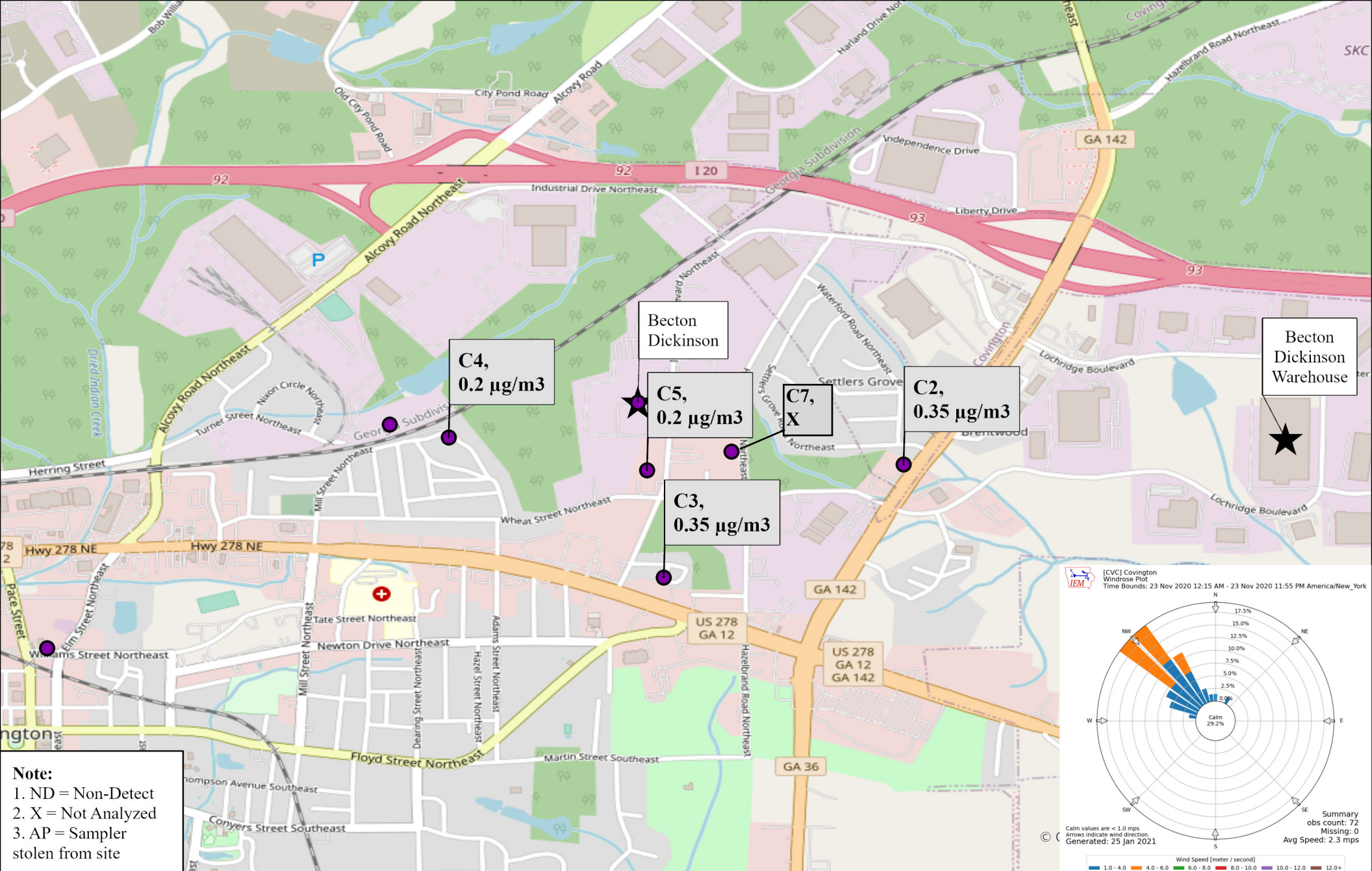
Ethylene Oxide Sampling
 Covington, GA

11/17/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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ENVIRONMENTAL PROTECTION DIVISION



0 0.15 0.3
 Miles



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

Ethylene Oxide Sampling
 Covington, GA

11/23/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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