

October 13, 2020

**MEMORANDUM**

K7H

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington July 26- August 13, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of July 26 - August 13, 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 samples listed as AF indicate that the sample was scheduled but not collected. The Qualifier code of "D-F" was given by ERG to indicate that the duplicate exceeds Data Quality Objectives (DQO) criteria. No samples were taken at location C1, C6, C7, C8, or C9 during this period.

Location	Date	Qualifier	EtO Concentration (ug/m <sup>3</sup> )
C2	07/26/2020		13.8
C2	08/01/2020	LK	0.20
C2	08/07/2020		0.19
C2	08/13/2020		AF
C3	07/26/2020		0.53
C3	08/01/2020	LK	0.35
C3	08/07/2020		0.39
C3	08/13/2020		AF
C4	07/26/2020		1.51
C4	08/01/2020	LK	0.99
C4	08/07/2020	D-F	0.64
C4QA	08/07/2020	D-F	0.29
C4	08/13/2020		0.17
C5	07/26/2020		0.64
C5	08/01/2020		1.21

Location		Date		Qualifier		EtO Concentration (ug/m <sup>3</sup> )
C5		08/07/2020				1.18
C5		08/13/2020				AF

If you have any questions, please let me know.

DGO/do



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

September 11, 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 08/05/20 14:25 through 08/21/20 12:56.

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](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: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

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	0080534-01	Air	07/26/20 23:59	08/05/20 14:25
C3	0080534-02	Air	07/26/20 23:59	08/05/20 14:25
C4	0080534-03	Air	07/26/20 23:59	08/05/20 14:25
C5	0080618-01	Air	07/26/20 23:59	08/06/20 11:27
C3	0081325-01	Air	08/07/20 23:59	08/13/20 11:51
C4 QA	0081325-02	Air	08/07/20 23:59	08/13/20 11:51
C2	0081410-01	Air	08/01/20 23:59	08/14/20 11:57
C3	0081410-02	Air	08/01/20 23:59	08/14/20 11:57
C4	0081410-03	Air	08/01/20 23:59	08/14/20 11:57
C5	0081410-04	Air	08/01/20 23:59	08/14/20 11:57
C2	0081410-05	Air	08/07/20 23:59	08/14/20 11:57
C4	0081410-06	Air	08/07/20 23:59	08/14/20 11:57
C5	0081410-07	Air	08/07/20 23:59	08/14/20 11:57
C4	0082118-01	Air	08/13/20 23:59	08/21/20 12:56



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0080534-01

Sampled: 07/26/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 35158

Received: 08/05/20 14:25

Comments:

Analyzed: 08/21/20 02:28

### Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	7.67	13.80		0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0080534-02

Sampled: 07/26/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT015

Received: 08/05/20 14:25

Comments:

Analyzed: 08/20/20 22:48

### 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	0.295	0.53		0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0080534-03

Sampled: 07/26/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: A21086

Received: 08/05/20 14:25

Comments:

Analyzed: 08/21/20 01:33

### 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	0.838	1.51		0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0080618-01

Sampled: 07/26/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: A21022

Received: 08/06/20 11:27

Comments:

Analyzed: 08/21/20 08:52

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.355	0.64		0.0285





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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0081325-01

Sampled: 08/07/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: SAT100

Received: 08/13/20 11:51

Comments:

Analyzed: 09/02/20 07:13

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.213	0.39		0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4 QA

Lab ID: 0081325-02

Sampled: 08/07/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 19641

Received: 08/13/20 11:51

Comments:

Analyzed: 09/02/20 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	0.162	0.29	D-F	0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0081410-01

Sampled: 08/01/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT053

Received: 08/14/20 11:57

Comments: Received at ambient pressure

Analyzed: 08/29/20 02:19

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.110	0.20	LK	0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0081410-02

Sampled: 08/01/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: SAT149

Received: 08/14/20 11:57

Comments:

Analyzed: 08/29/20 03:24

### Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.196	0.35	LK	0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0081410-03

Sampled: 08/01/20 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 5009

Received: 08/14/20 11:57

Comments:

Analyzed: 08/29/20 04:28

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.546	0.99	LK	0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0081410-04

Sampled: 08/01/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: SAT038

Received: 08/14/20 11:57

Comments:

Analyzed: 08/29/20 05:32

### 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	0.670	1.21		0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0081410-05

Sampled: 08/07/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 33533

Received: 08/14/20 11:57

Comments: Received at ambient pressure

Analyzed: 09/01/20 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	0.107	0.19		0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0081410-06

Sampled: 08/07/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT004

Received: 08/14/20 11:57

Comments:

Analyzed: 09/02/20 00:49

### 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	0.352	0.64	D-F	0.0285





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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0081410-07

Sampled: 08/07/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: SAT042

Received: 08/14/20 11:57

Comments:

Analyzed: 09/02/20 04:28

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.651	1.18		0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0082118-01

Sampled: 08/13/20 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 33236

Received: 08/21/20 12:56

Comments:

Analyzed: 09/03/20 04:16

### 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	0.0913	0.17		0.0285



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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

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 B0H2009 - Summa Canister Prep

##### Blank (B0H2009-BLK1)

Prepared & Analyzed: 08/20/20

Ethylene oxide	ND	ppbv				U
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#### Batch B0H2802 - Summa Canister Prep

##### Blank (B0H2802-BLK1)

Prepared: 08/11/20 Analyzed: 08/28/20

Ethylene oxide	ND	ppbv				U
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#### Batch B0I0108 - Summa Canister Prep

##### Blank (B0I0108-BLK1)

Prepared & Analyzed: 09/01/20

Ethylene oxide	ND	ppbv				U
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##### Duplicate (B0I0108-DUP3)

Source: 0081410-06

Prepared: 08/07/20 Analyzed: 09/02/20

Ethylene oxide	0.358	ppbv	0.35	1.75	25	
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##### Duplicate (B0I0108-DUP4)

Source: 0081325-02

Prepared: 08/07/20 Analyzed: 09/02/20

Ethylene oxide	0.137	ppbv	0.16	17.0	25	
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#### Batch B0I0206 - Summa Canister Prep

##### Blank (B0I0206-BLK1)

Prepared & Analyzed: 09/02/20

Ethylene oxide	ND	ppbv				U
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FILE #: 4222.00

REPORTED: 09/11/20 13:13

SUBMITTED: 08/05/20 to 08/21/20

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 2008048

##### Calibration Check (2008048-CCV1)

Prepared & Analyzed: 08/20/20

Ethylene oxide	2.51	ppbv	0.3	30.00
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#### Sequence 2008066

##### Calibration Check (2008066-CCV1)

Prepared & Analyzed: 08/28/20

Ethylene oxide	2.31	ppbv	-6.7	30.00
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#### Sequence 2009001

##### Calibration Check (2009001-CCV1)

Prepared & Analyzed: 09/01/20

Ethylene oxide	2.22	ppbv	-11.3	30.00
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#### Sequence 2009005

##### Calibration Check (2009005-CCV1)

Prepared & Analyzed: 09/02/20

Ethylene oxide	2.31	ppbv	-7.5	30.00
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**PHONE:** (404) 362-4912 **FAX:** (919) 541-0516

**FILE #:** 4222.00

**REPORTED:** 09/11/20 13:13

**SUBMITTED:** 08/05/20 to 08/21/20

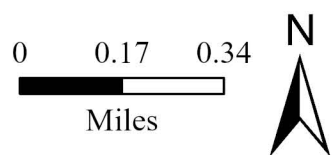
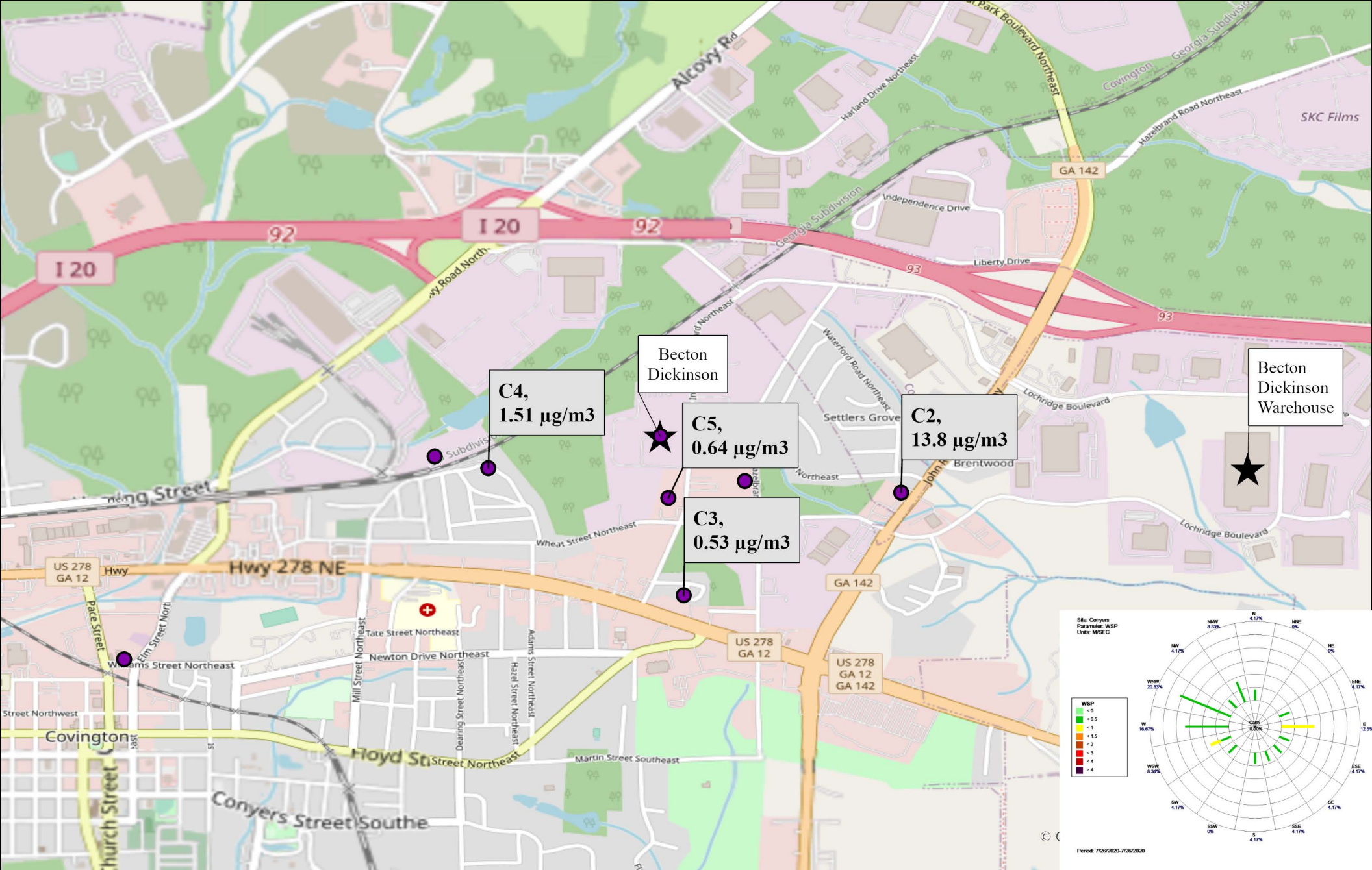
**AQS SITE CODE:**

**SITE CODE:** Covington

### Notes and Definitions

U	Under Detection Limit
LK	Analyte identified; Reported value may be biased high.
D-F	Duplicate exceeds DQO criteria.
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.



Site ID, Concentration (µg/m³)

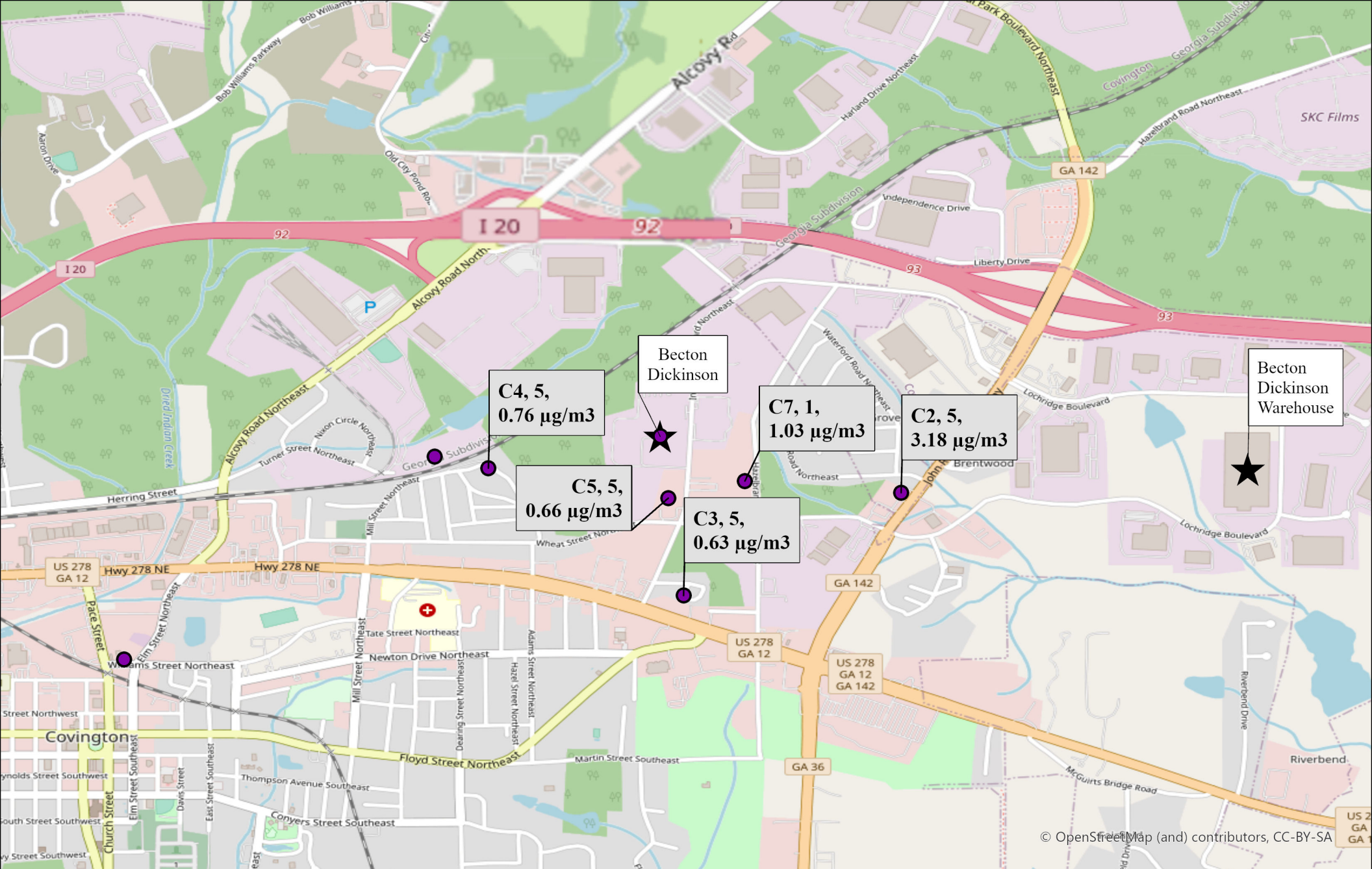
Ethylene Oxide Sampling  
Covington, GA

07/26/2020

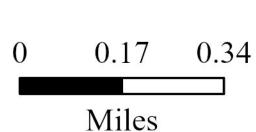
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group





Ethylene Oxide Sampling  
Covington, GA



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

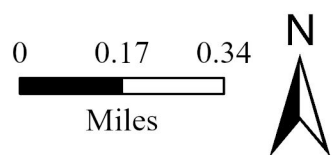
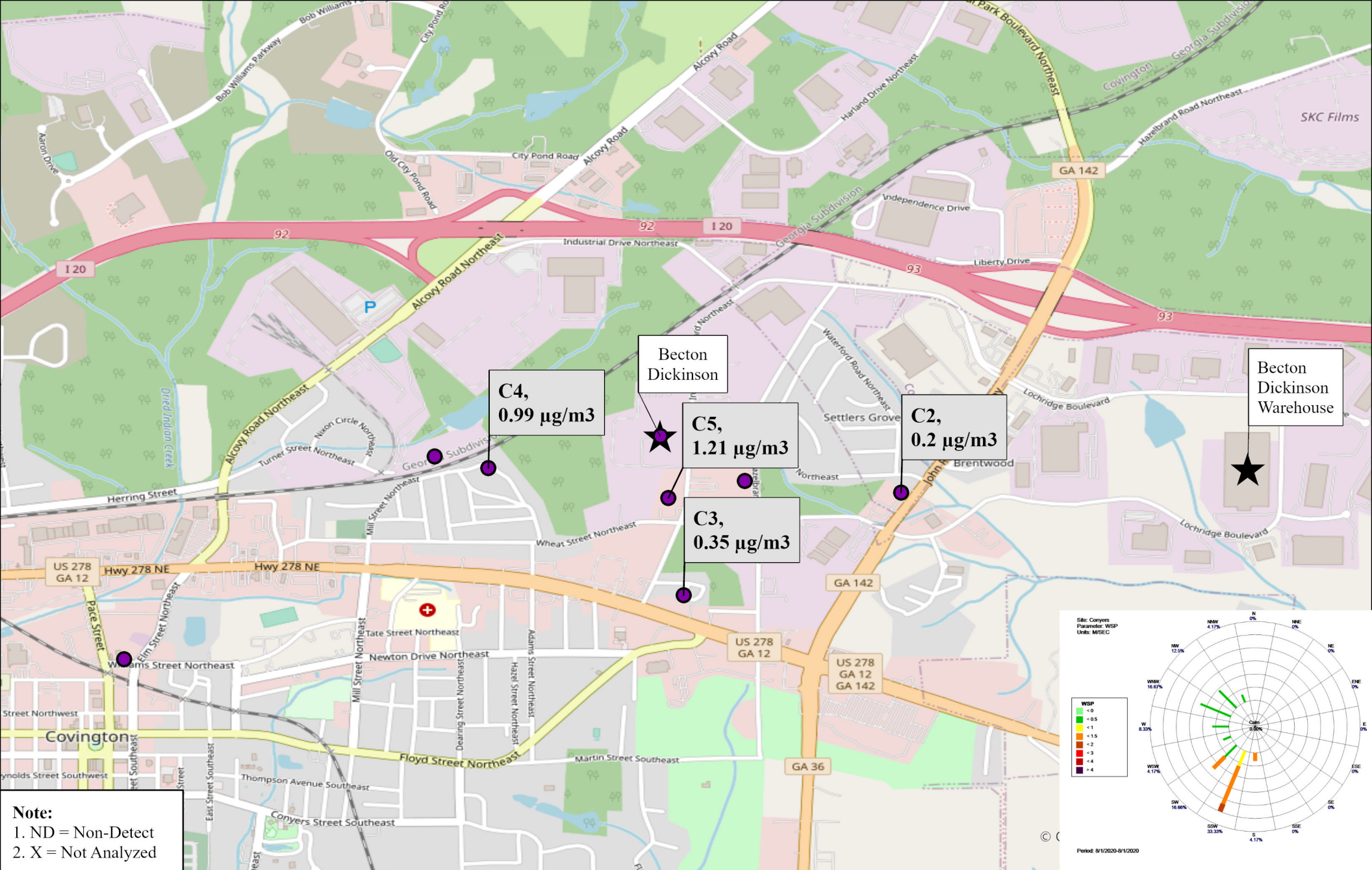
July 2020 Site Average Values  
Note: Not detectable values were included in average calculations as a value of 0.  
Sampled By: Georgia Environmental Protection Division  
Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling  
Covington, GA

08/01/2020

Sampled By: Georgia Environmental Protection Division

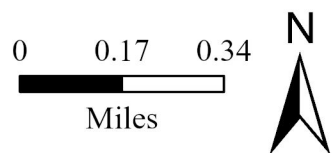
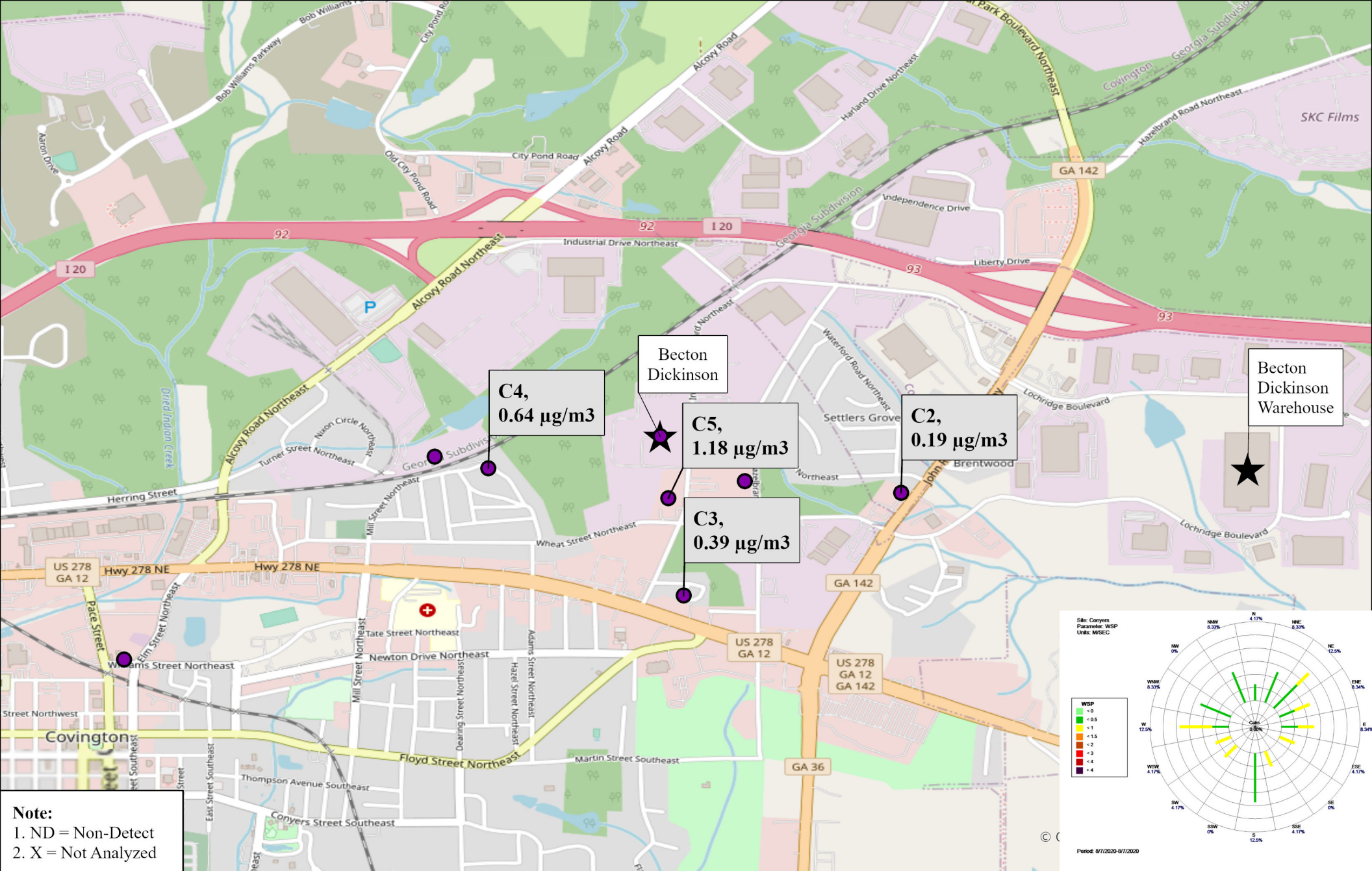
Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling  
Covington, GA

08/07/2020

Sampled By: Georgia Environmental Protection Division

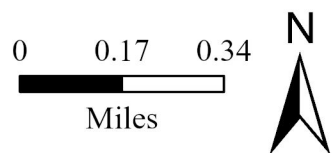
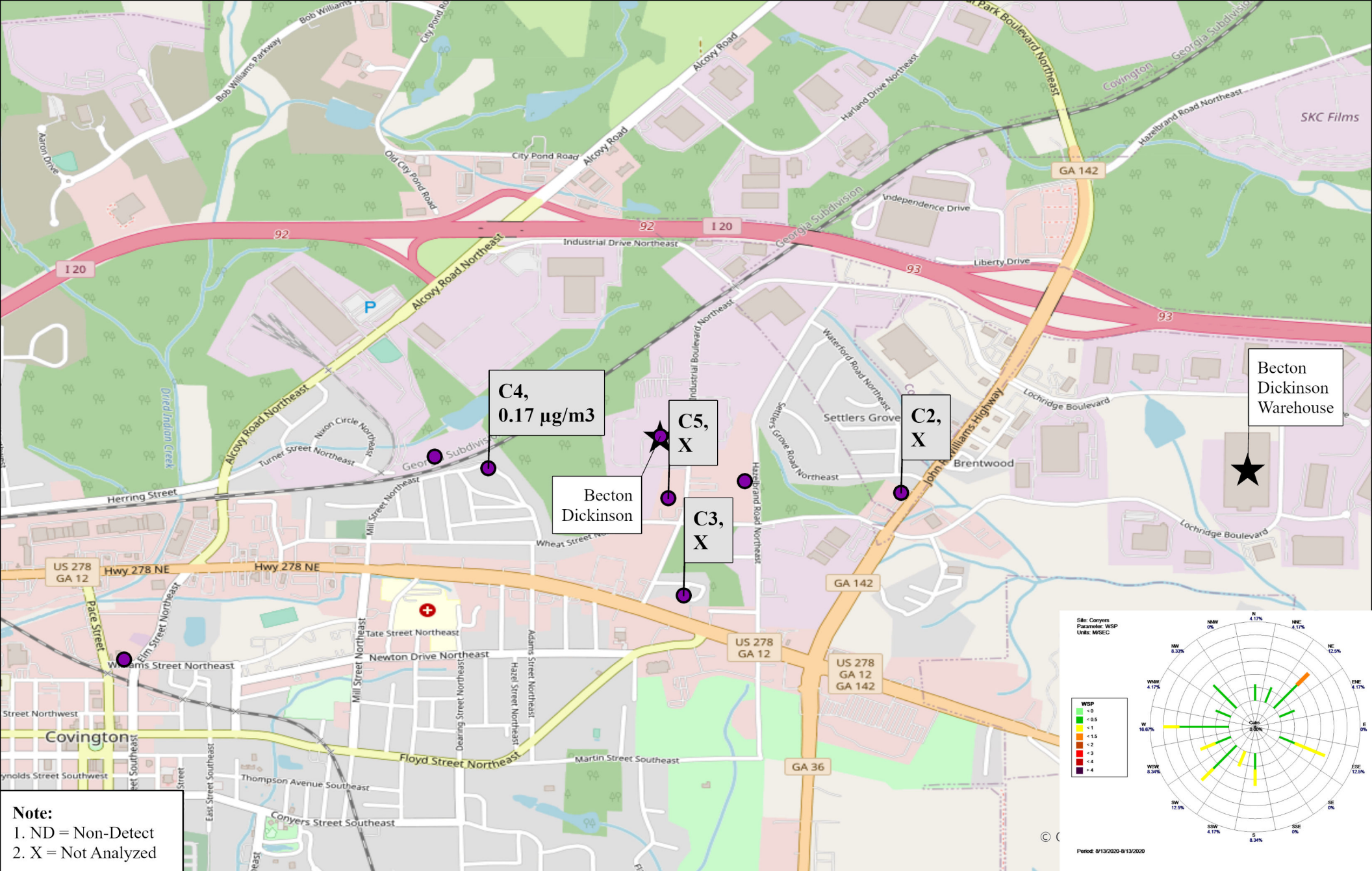
Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling  
Covington, GA

08/13/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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