



ENVIRONMENTAL PROTECTION DIVISION

February 6, 2023

Richard E. Dunn, Director

EPD Director's Office

2 Martin Luther King, Jr. Drive
Suite 1456, East Tower
Atlanta, Georgia 30334
404-656-4713

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*
Through: James Boylan, Assistant Branch Chief
Through: DeAnna Oser, Ambient Monitoring Program Manager
From: Jaime Gore, Operations 1 Unit Manager

RE: Covington – December 12 – 24, 2021, Sampling Results for Ethylene Oxide
Samples of Ethylene Oxide (EtO) were collected during the period of December 12 – December 24, 2021, by the Ambient Monitoring Program in the Covington area to characterize the EtO concentration. Each of the samples were sent to the Georgia Environmental Protection Division Laboratory (EPD) for analysis. The Null code “AA” is applied to indicate Sample Pressure was out of limits. 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. Please note that the Ambient Monitoring Program lost access to site C7 SA in December. Therefore, site C3 SA will be used for the spatial comparison going forward.

Location		Date		Qualifier		EtO Concentration ($\mu\text{g}/\text{m}^3$)
C2		12/12/2021		2		0.20
C2		12/24/2021		2		0.27
C2 QA		12/12/2021				AA
C3 SA		12/24/2021				AA

If you have any questions, please let me know.

JCG

**GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION**

5804 Peachtree Corners East, Norcross, GA 30092-3403
(678) 248-7383

LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/6/2021
	Time Collected: 0:00
Sample ID: AK90671 Facility Name: SOUTH DEKALB Site ID: 013-089-0002 Location ID: QCCAN Location Descr:	Sample Collector: H. STREET
	Canister Number: 110302
	Canister Cleaned: 11/15/2021
	Received By: HZ
	Date Received: 12/8/2021
	Time Received: 11:35 AM
	Project: AIR
	Reporting Date: 2/18/2022
	Received Temperature: 22.9 °C

ANALYTE	PARAMETER	EPA	RESULT	QUALIFIER	ANALYSIS	MCL or				
	CODE	NOTE		METHOD	RL		ANALYST	DATE	QC Range	
ETO by EPA Method TO-15 QC Batch 194261										
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	9.6350	ppbV		KL	12/15/2021	8 to	12
Ethylene Oxide			EPA TO-15	0.1617	ppbV		0.0232	KL	12/15/2021	
ETO Results by EPA Method TO-15										
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	68.9193	ug/m3			KL	12/15/2021	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.2915	ug/m3		0.0418	KL	12/15/2021	

COMMENTS: \$ETO received in the lab at 4.8 psi.

ug/L: micrograms/liter
mg/L: milligrams/liter
mg/kg: milligrams/kilogram
ug/kg: micrograms/kilogram
ug/g: micrograms/gram
ppm: parts per million
ppb: parts per billion
org/L: organisms/liter

<: less than
MCL: Maximum Contaminant Level
RL: Reporting Limit
LSPC: result less than lower specification
USPC: result greater than upper specification
TIE: Tentatively Identified or Estimated
VIOL: Violation (result exceeds MCL)

Laboratory Contacts:

Lab Director:	Mark Tolbert	470-524-0577
Inorganics:	Carmen Pyles	470-524-0629
Metals:	Shene Jones	470-524-0544
Organics:	Mary Bowman	470-524-0639
GC Mass Spec:	Ralph Schulz	470-524-0684
Microbiology:	Mary Bowman	470-524-0709

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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/12/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
Sample ID: AK90672 Facility Name: COBB S2 QA Site ID: S2-QA Location ID: Location Descr:	Date Received: 12/21/2021 Time Received: 11:29 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.5 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194339								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	8.9168	ppbV	KL	12/21/2021	8 to 12
Ethylene Oxide			EPA TO-15	0.0427	ppbV	SQ 0.0232	KL 12/21/2021	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	63.782	ug/m3	KL	12/21/2021	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.077	ug/m3	SQ 0.0418	KL 12/21/2021	

COMMENTS: \$ETO received in the lab at 3.5 in Hg.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/12/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
Sample ID: AK90673 Facility Name: COBB S2 Site ID: S2 Location ID: Location Descr:	Date Received: 12/21/2021 Time Received: 11:29 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.4 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194339								
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15		9.6984	ppbV		KL	12/21/2021	8 to 12
Ethylene Oxide	EPA TO-15		0.0377	ppbV	SQ	0.0232	KL	12/21/2021
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15		69.3728	ug/m3		KL	12/21/2021	57.22 to 85.84
Ethylene Oxide	EPA TO-15		0.068	ug/m3	SQ	0.0418	KL	12/21/2021

COMMENTS: \$ETO received in the lab at 3 in Hg.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
 RL: Reporting Limit
 LSPC: result less than lower specification
 USPC: result greater than upper specification
 TIE: Tentatively Identified or Estimated
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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/12/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
Sample ID: AK90674 Facility Name: COVINGTON C2 QA Site ID: C2-QA Location ID: Location Descr:	Date Received: 12/21/2021 Time Received: 11:29 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 20.4 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)		EPA TO-15	Not Analyzed	ppbV		KL	12/22/2021	8 to 12
Ethylene Oxide		EPA TO-15	Not Analyzed	ppbV	0.0232	KL	12/22/2021	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)		EPA TO-15	Not Analyzed	ug/m3		KL	12/22/2021	57.22 to 85.84
Ethylene Oxide		EPA TO-15	Not Analyzed	ug/m3	0.0418	KL	12/22/2021	

COMMENTS: \$ETO received in the lab at 9.5 in Hg. Sample not analyzed; canister did not have enough pressure to analyze 500ml.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

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TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/12/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
Sample ID: AK90675 Facility Name: COVINGTON C2 Site ID: C2 Location ID: Location Descr:	Date Received: 12/21/2021 Time Received: 11:29 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 19.6 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194339								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	9.4023	ppbV		KL 12/21/2021	8 to 12
Ethylene Oxide			EPA TO-15	0.1093	ppbV	0.0232	KL 12/21/2021	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	67.2548	ug/m3		KL 12/21/2021	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.197	ug/m3	0.0418	KL 12/21/2021	

COMMENTS: \$ETO received in the lab at 5.5 in Hg.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
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 USPC: result greater than upper specification
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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/12/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
	Date Received: 12/21/2021 Time Received: 11:29 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.5 °C
Sample ID: AK90676 Facility Name: FULTON F2 Site ID: F2 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194339									
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	9.6877	ppbV		KL	12/21/2021	8 to 12
Ethylene Oxide			EPA TO-15	0.5366	ppbV	2 0.0232	KL	12/21/2021	
ETO Results by EPA Method TO-15									
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	69.2962	ug/m3		KL	12/21/2021	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.9673	ug/m3	2 0.0418	KL	12/21/2021	

COMMENTS: \$ETO received in the lab at 0.4 psi. Pressure difference of >0.5 psi between receipt from field and receipt in lab.

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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/12/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
Sample ID: AK90677 Facility Name: FULTON F2 QA Site ID: F2-QA Location ID: Location Descr:	Date Received: 12/21/2021 Time Received: 11:29 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 20.9 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194339								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	9.7707	ppbV	KL	12/21/2021	8 to 12
Ethylene Oxide			EPA TO-15	0.2422	ppbV	0.0232	KL	12/21/2021
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	69.8899	ug/m3	KL	12/21/2021	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.4366	ug/m3	0.0418	KL	12/21/2021

COMMENTS: \$ETO received in the lab at 9 in Hg.

ug/L: micrograms/liter
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 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/12/2021 Time Collected: 0:00 Sample Collector: C. CULBERT Chlorination: Sample Type: Received By: HZ
	Date Received: 12/17/2021 Time Received: 8:36 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 20.0 °C
Sample ID: AK90678 Facility Name: DOUGLAS - GENERAL COFFEE Site ID: 013-069-0002 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194339									
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	9.8584	ppbV		KL	12/21/2021	8 to 12
Ethylene Oxide			EPA TO-15	0.0278	ppbV	SQ 2 0.0232	KL	12/21/2021	
ETO Results by EPA Method TO-15									
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	70.5173	ug/m3		KL	12/21/2021	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.0501	ug/m3	SQ 2 0.0418	KL	12/21/2021	

COMMENTS: \$ETO received in the lab at 21 psi. Pressure difference of >0.5 psi between receipt from field and receipt in lab.

ug/L: micrograms/liter
 mg/L: milligrams/liter
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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/12/2021 Time Collected: 0:00 Sample Collector: H. STREET Canister Number: 111216 Canister Cleaned: 11/15/2021 Received By: HZ
Sample ID: AK90679 Facility Name: SOUTH DEKALB Site ID: 013-089-0002 Location ID: QCCAN Location Descr:	Date Received: 12/15/2021 Time Received: 11:12 AM Project: AIR Reporting Date: 2/18/2022 Received Temperature: 20.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194339								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	10.1015	ppbV		KL 12/21/2021	8 to 12
Ethylene Oxide			EPA TO-15	0.0345	ppbV	SQ 0.0232	KL 12/21/2021	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	72.2561	ug/m3		KL 12/21/2021	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.0622	ug/m3	SQ 0.0418	KL 12/21/2021	

COMMENTS: \$ETO received in the lab at 5.4 psi.

ug/L: micrograms/liter
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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/12/2021 Time Collected: 0:00 Sample Collector: H. STREET Canister Number: 110256 Canister Cleaned: 11/15/2021 Received By: HZ
	Date Received: 12/15/2021 Time Received: 11:12 AM Project: AIR Reporting Date: 2/18/2022 Received Temperature: 20.0 °C
Sample ID: AK90681 Facility Name: SOUTH DEKALB QA Site ID: 013-089-0002 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194339									
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	9.4182	ppbV		KL	12/21/2021	8 to 12
Ethylene Oxide			EPA TO-15	0.0588	ppbV	SQ 0.0232	KL	12/21/2021	
ETO Results by EPA Method TO-15									
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	67.3685	ug/m3		KL	12/21/2021	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.106	ug/m3	SQ 0.0418	KL	12/21/2021	
ETO NATTS QA Replicate Precision									
Ethylene Oxide			EPA TO-15	2.02	%RPD		KL	12/22/2021	25
ETO QA Replicate Result									
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	9.4408	ppbV		KL	12/21/2021	8 to 12
Ethylene Oxide			EPA TO-15	0.0600	ppbV	SQ 0.0232	KL	12/21/2021	

COMMENTS: \$ETO received in the labb at 4.4 psi.

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 mg/L: milligrams/liter
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TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/18/2021 Time Collected: 0:00 Sample Collector: H. STREET Canister Number: 114358 Canister Cleaned: 11/29/2021 Received By: HZ
Sample ID: AK91184 Facility Name: SOUTH DEKALB Site ID: 013-089-0002 Location ID: QCCAN Location Descr:	Date Received: 12/21/2021 Time Received: 11:29 AM Project: AIR Reporting Date: 2/18/2022 Received Temperature: 23.6 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194339								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	9.2667	ppbV		KL 12/21/2021	8 to 12
Ethylene Oxide			EPA TO-15	0.0677	ppbV	SQ 0.0232	KL 12/21/2021	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	66.2848	ug/m3		KL 12/21/2021	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.122	ug/m3	SQ 0.0418	KL 12/21/2021	

COMMENTS: \$ETO received in the lab at 4.6 psi.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
 RL: Reporting Limit
 LSPC: result less than lower specification
 USPC: result greater than upper specification
 TIE: Tentatively Identified or Estimated
 VIOL: Violation (result exceeds MCL)

Laboratory Contacts:

Lab Director: Mark Tolbert 470-524-0577
 Inorganics: Carmen Pyles 470-524-0629
 Metals: Shene Jones 470-524-0544
 Organics: Mary Bowman 470-524-0639
 GC Mass Spec: Ralph Schulz 470-524-0684
 Microbiology: Mary Bowman 470-524-0709

**GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION**

5804 Peachtree Corners East, Norcross, GA 30092-3403
(678) 248-7383

LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/24/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
Sample ID: AK91185 Facility Name: COBB S6-SA Site ID: S6-SA Location ID: Location Descr:	Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194450								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	11.0252	ppbV		KL 1/7/2022	8 to 12
Ethylene Oxide			EPA TO-15	0.1164	ppbV	0.0232	KL 1/7/2022	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	78.8634	ug/m3		KL 1/7/2022	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.2098	ug/m3	0.0418	KL 1/7/2022	

COMMENTS: \$ETO received in the lab at 4.5 in Hg.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
 RL: Reporting Limit
 LSPC: result less than lower specification
 USPC: result greater than upper specification
 TIE: Tentatively Identified or Estimated
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Laboratory Contacts:

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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/21/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: T Received By: HZ
Sample ID: AK91186 Facility Name: COBB S2 S6-SA S7-SA FB Site ID: S2 Location ID: Location Descr:	Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194450								
Bromofluorobenzene(Surrogate QC Std.)		EPA TO-15	9.8805	ppbV		KL	1/7/2022	8 to 12
Ethylene Oxide		EPA TO-15	0	ppbV	ND	0.0232	KL	1/7/2022
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)		EPA TO-15	70.6753	ug/m3		KL	1/7/2022	57.22 to 85.84
Ethylene Oxide		EPA TO-15	0	ug/m3	ND	0.0418	KL	1/7/2022

COMMENTS: \$ETO received in the lab at 29 in Hg.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
 RL: Reporting Limit
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 USPC: result greater than upper specification
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LABORATORY REPORT

<p>TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354</p>	<p>Date Collected: 12/24/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ</p>
<p>Sample ID: AK91187 Facility Name: COBB S7-SA Site ID: S7-SA Location ID: Location Descr:</p>	<p>Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C</p>

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194450								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	10.9596	ppbV	KL	1/7/2022	8 to 12
Ethylene Oxide			EPA TO-15	0.1660	ppbV	0.0232	KL 1/7/2022	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	78.3941	ug/m3	KL	1/7/2022	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.2992	ug/m3	0.0418	KL 1/7/2022	

COMMENTS: \$ETO received in the lab at 5 in Hg.

ug/L: micrograms/liter
mg/L: milligrams/liter
mg/kg: milligrams/kilogram
ug/kg: micrograms/kilogram
ug/g: micrograms/gram
ppm: parts per million
ppb: parts per billion
org/L: organisms/liter

<: less than
MCL: Maximum Contaminant Level
RL: Reporting Limit
LSPC: result less than lower specification
USPC: result greater than upper specification
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LABORATORY REPORT

<p>TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354</p>	<p>Date Collected: 12/24/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ</p>
<p>Sample ID: AK91188 Facility Name: COBB S2 Site ID: S2 Location ID: Location Descr:</p>	<p>Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C</p>

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194450								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	10.5550	ppbV	KL	1/7/2022	8 to 12
Ethylene Oxide			EPA TO-15	0.1289	ppbV	0.0232	KL 1/7/2022	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	75.5	ug/m3	KL	1/7/2022	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.2323	ug/m3	0.0418	KL 1/7/2022	

COMMENTS: \$ETO received in the lab at 2.5 in Hg.

ug/L: micrograms/liter
mg/L: milligrams/liter
mg/kg: milligrams/kilogram
ug/kg: micrograms/kilogram
ug/g: micrograms/gram
ppm: parts per million
ppb: parts per billion
org/L: organisms/liter

<: less than
MCL: Maximum Contaminant Level
RL: Reporting Limit
LSPC: result less than lower specification
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Laboratory Contacts:

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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/20/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: T Received By: HZ
Sample ID: AK91189 Facility Name: COVINGTON C2 C3-SA FB Site ID: C2 Location ID: Location Descr:	Date Received: 1/5/2022 Time Received: 11:36 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194450								
Bromofluorobenzene(Surrogate QC Std.)		EPA TO-15	9.8262	ppbV		KL	1/7/2022	8 to 12
Ethylene Oxide		EPA TO-15	0	ppbV	ND	0.0232	KL 1/7/2022	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)		EPA TO-15	70.2869	ug/m3		KL	1/7/2022	57.22 to 85.84
Ethylene Oxide		EPA TO-15	0	ug/m3	ND	0.0418	KL 1/7/2022	

COMMENTS: \$ETO received in the lab at 29 in Hg.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
 RL: Reporting Limit
 LSPC: result less than lower specification
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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/24/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
Sample ID: AK91190 Facility Name: COVINGTON C2 Site ID: C2 Location ID: Location Descr:	Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194450								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	10.0110	ppbV		KL 1/7/2022	8 to 12
Ethylene Oxide			EPA TO-15	0.1478	ppbV	0.0232	KL 1/7/2022	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	71.6088	ug/m3		KL 1/7/2022	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.2664	ug/m3	0.0418	KL 1/7/2022	

COMMENTS: \$ETO received in the lab at 6.5 in Hg.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
 RL: Reporting Limit
 LSPC: result less than lower specification
 USPC: result greater than upper specification
 TIE: Tentatively Identified or Estimated
 VIOL: Violation (result exceeds MCL)

Laboratory Contacts:

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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/24/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
Sample ID: AK91191 Facility Name: COVINGTON C3-SA Site ID: C3-SA Location ID: Location Descr:	Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194450								
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15		9.9118	ppbV		KL	1/7/2022	8 to 12
Ethylene Oxide	EPA TO-15		0.0672	ppbV	SQ	0.0232	KL	1/7/2022
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15		70.8992	ug/m3		KL	1/7/2022	57.22 to 85.84
Ethylene Oxide	EPA TO-15		0.1211	ug/m3	SQ	0.0418	KL	1/7/2022

COMMENTS: \$ETO received in the lab at 0 psi.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
 RL: Reporting Limit
 LSPC: result less than lower specification
 USPC: result greater than upper specification
 TIE: Tentatively Identified or Estimated
 VIOL: Violation (result exceeds MCL)

Laboratory Contacts:

Lab Director: Mark Tolbert 470-524-0577
 Inorganics: Carmen Pyles 470-524-0629
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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/24/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
Sample ID: AK91192 Facility Name: FULTON F1-SA Site ID: F1-SA Location ID: QCCAN Location Descr:	Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194450								
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15		10.3340	ppbV		KL	1/7/2022	8 to 12
Ethylene Oxide	EPA TO-15		0.0602	ppbV	SQ	0.0232	KL	1/7/2022
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15		73.9192	ug/m3		KL	1/7/2022	57.22 to 85.84
Ethylene Oxide	EPA TO-15		0.1085	ug/m3	SQ	0.0418	KL	1/7/2022

COMMENTS: \$ETO received in the lab at 5 in Hg.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
 RL: Reporting Limit
 LSPC: result less than lower specification
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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/21/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: T Received By: HZ
Sample ID: AK91193 Facility Name: FULTON F2 F1-SA FB Site ID: F2 Location ID: Location Descr:	Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194450								
Bromofluorobenzene(Surrogate QC Std.)		EPA TO-15	9.8525	ppbV		KL	1/7/2022	8 to 12
Ethylene Oxide		EPA TO-15	0	ppbV	ND	0.0232	KL 1/7/2022	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)		EPA TO-15	70.475	ug/m3		KL	1/7/2022	57.22 to 85.84
Ethylene Oxide		EPA TO-15	0	ug/m3	ND	0.0418	KL 1/7/2022	

COMMENTS: \$ETO received in the lab at 29 in Hg.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
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 LSPC: result less than lower specification
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LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/24/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ
Sample ID: AK91194 Facility Name: FULTON F2 Site ID: F2 Location ID: Location Descr:	Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194450								
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15		10.7457	ppbV		KL	1/7/2022	8 to 12
Ethylene Oxide	EPA TO-15		0.2904	ppbV	2	0.0232	KL 1/7/2022	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15		76.8641	ug/m3		KL	1/7/2022	57.22 to 85.84
Ethylene Oxide	EPA TO-15		0.5235	ug/m3	2	0.0418	KL 1/7/2022	

COMMENTS: \$ETO received in the lab at 0.5 in Hg. Pressure difference of >3 in Hg between receipt from field and receipt in lab.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
 RL: Reporting Limit
 LSPC: result less than lower specification
 USPC: result greater than upper specification
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LABORATORY REPORT

<p>TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354</p>	<p>Date Collected: 12/24/2021 Time Collected: 0:00 Sample Collector: C. CULBERT Chlorination: Sample Type: Received By: HZ</p>
<p>Sample ID: AK91195 Facility Name: douglas - general coffee Site ID: 013-069-0002 Location ID: Location Descr:</p>	<p>Date Received: 1/5/2022 Time Received: 7:54 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 20.6 °C</p>

ANALYTE	PARAMETER	EPA	RESULT	QUALIFIER	ANALYSIS	MCL or
	CODE	NOTE		METHOD	RL	
ETO by EPA Method TO-15 QC Batch 194417						
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	10.1173	ppbV	KL 1/5/2022 8 to 12
Ethylene Oxide			EPA TO-15	0.0740	ppbV	0.0232 KL 1/5/2022
ETO Results by EPA Method TO-15						
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	72.3692	ug/m3	KL 1/5/2022 57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.1334	ug/m3	0.0418 KL 1/5/2022

COMMENTS: \$ETO received in the lab at 22.6 psi.

ug/L: micrograms/liter
mg/L: milligrams/liter
mg/kg: milligrams/kilogram
ug/kg: micrograms/kilogram
ug/g: micrograms/gram
ppm: parts per million
ppb: parts per billion
org/L: organisms/liter

<: less than
MCL: Maximum Contaminant Level
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(678) 248-7383

LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/24/2021 Time Collected: 0:00 Sample Collector: H. STREET Canister Number: 110325 Canister Cleaned: 11/29/2021 Received By: HZ
Sample ID: AK91196 Facility Name: south dekalb Site ID: 013-089-0002 Location ID: Location Descr:	Date Received: 12/29/2021 Time Received: 11:40 AM Project: AIR Reporting Date: 2/18/2022 Received Temperature: 19.9 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194417								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	9.8187	ppbV		KL 1/5/2022	8 to 12
Ethylene Oxide			EPA TO-15	0.1269	ppbV	0.0232	KL 1/5/2022	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	70.2333	ug/m3		KL 1/5/2022	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.2287	ug/m3	0.0418	KL 1/5/2022	

COMMENTS: \$ETO received in the lab at 5.4 psi.

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

<: less than
 MCL: Maximum Contaminant Level
 RL: Reporting Limit
 LSPC: result less than lower specification
 USPC: result greater than upper specification
 TIE: Tentatively Identified or Estimated
 VIOL: Violation (result exceeds MCL)

Laboratory Contacts:

Lab Director: Mark Tolbert 470-524-0577
 Inorganics: Carmen Pyles 470-524-0629
 Metals: Shene Jones 470-524-0544
 Organics: Mary Bowman 470-524-0639
 GC Mass Spec: Ralph Schulz 470-524-0684
 Microbiology: Mary Bowman 470-524-0709

**GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION**

5804 Peachtree Corners East, Norcross, GA 30092-3403
(678) 248-7383

LABORATORY REPORT

TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring 4244 International Pkwy Ste 120 Atlanta, GA 30354	Date Collected: 12/30/2021 Time Collected: 0:00 Sample Collector: H. STREET Canister Number: 114348 Canister Cleaned: 12/14/2021 Received By: HZ
Sample ID: AK92591 Facility Name: SOUTH DEKALB Site ID: 013-089-0002 Location ID: Location Descr:	Date Received: 1/4/2022 Time Received: 10:43 AM Project: AIR Reporting Date: 2/18/2022 Received Temperature: 3.9 °C

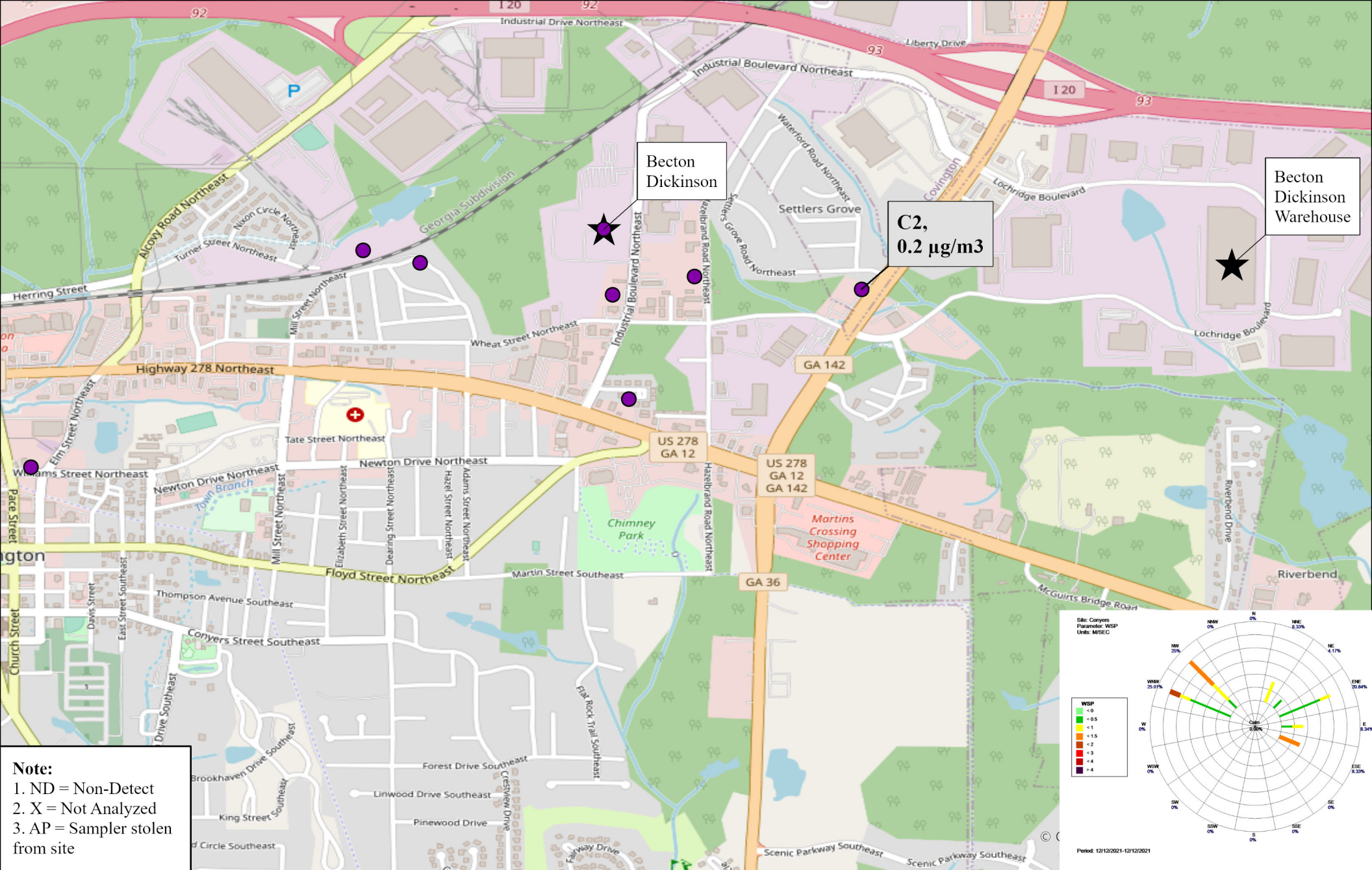
ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
ETO by EPA Method TO-15 QC Batch 194417								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	11.0022	ppbV		KL 1/5/2022	8 to 12
Ethylene Oxide			EPA TO-15	0.0547	ppbV	SQ 0.0232	KL 1/5/2022	
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)			EPA TO-15	78.6989	ug/m3		KL 1/5/2022	57.22 to 85.84
Ethylene Oxide			EPA TO-15	0.0986	ug/m3	SQ 0.0418	KL 1/5/2022	
COMMENTS: \$ETO received in the lab at 5.2 psi.								

ug/L: micrograms/liter
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
 ppb: parts per billion
 org/L: organisms/liter

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 RL: Reporting Limit
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0 0.16 0.32
 Miles



Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling
 Covington, GA

12/12/2021

Sampled By: Georgia Environmental Protection Division

Analyzed By: Georgia Environmental Protection Division



GEORGIA
 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

