



February 6, 2023

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: Fulton – 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 Fulton 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. The Qualifier code of “SQ” indicates the analysis of the sample was above the method detection limit but below the practical quantification limit.

Location	Date	Qualifier	EtO Concentration ($\mu\text{g}/\text{m}^3$)
F2	12/12/2021	2	0.97
F2	12/24/2021		AA
F2-QA	12/12/2021	2	0.44
F1-SA	12/24/2021	SQ	0.11

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 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
Sample ID: AK90671 Facility Name: SOUTH DEKALB Site ID: 013-089-0002 Location ID: QCCAN Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
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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 Date Received: 12/21/2021 Time Received: 11:29 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.4 °C
Sample ID: AK90673 Facility Name: COBB S2 Site ID: S2 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
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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

<: less than
 MCL: Maximum Contaminant Level
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 LSPC: result less than lower specification
 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
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	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
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 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
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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 Date Received: 12/21/2021 Time Received: 11:29 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 19.6 °C
Sample ID: AK90675 Facility Name: COVINGTON C2 Site ID: C2 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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.

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Sample ID: AK90676 Facility Name: FULTON F2 Site ID: F2 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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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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: 20.9 °C
Sample ID: AK90677 Facility Name: FULTON F2 QA Site ID: F2-QA Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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.

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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
Sample ID: AK90678 Facility Name: DOUGLAS - GENERAL COFFEE Site ID: 013-069-0002 Location ID: Location Descr:	Date Received: 12/17/2021 Time Received: 8:36 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 20.0 °C

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
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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 Date Received: 12/15/2021 Time Received: 11:12 AM Project: AIR Reporting Date: 2/18/2022 Received Temperature: 20.0 °C
Sample ID: AK90679 Facility Name: SOUTH DEKALB Site ID: 013-089-0002 Location ID: QCCAN Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
 mg/L: milligrams/liter
 mg/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
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 ppb: parts per billion
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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	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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/kg: milligrams/kilogram
 ug/kg: micrograms/kilogram
 ug/g: micrograms/gram
 ppm: parts per million
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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 Date Received: 12/21/2021 Time Received: 11:29 AM Project: AIR Reporting Date: 2/18/2022 Received Temperature: 23.6 °C
Sample ID: AK91184 Facility Name: SOUTH DEKALB Site ID: 013-089-0002 Location ID: QCCAN Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER	RL	ANALYSIS		MCL or QC Range
								ANALYST	DATE	
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 Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C
Sample ID: AK91185 Facility Name: COBB S6-SA Site ID: S6-SA Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
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 RL: Reporting Limit
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 USPC: result greater than upper specification
 TIE: Tentatively Identified or Estimated
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Laboratory Contacts:

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5804 Peachtree Corners East, Norcross, GA 30092-3403
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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
	Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C
Sample ID: AK91186 Facility Name: COBB S2 S6-SA S7-SA FB Site ID: S2 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
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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: 12/24/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C
Sample ID: AK91187 Facility Name: COBB S7-SA Site ID: S7-SA Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
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 USPC: result greater than upper 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: 12/24/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: Received By: HZ Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C
Sample ID: AK91188 Facility Name: COBB S2 Site ID: S2 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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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 TIE: Tentatively Identified or Estimated
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ENVIRONMENTAL PROTECTION DIVISION**

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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
	Date Received: 1/5/2022 Time Received: 11:36 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C
Sample ID: AK91189 Facility Name: COVINGTON C2 C3-SA FB Site ID: C2 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
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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 Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C
Sample ID: AK91190 Facility Name: COVINGTON C2 Site ID: C2 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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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ENVIRONMENTAL PROTECTION DIVISION**

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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 Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C
Sample ID: AK91191 Facility Name: COVINGTON C3-SA Site ID: C3-SA Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
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 Organics: Mary Bowman 470-524-0639
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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 Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C
Sample ID: AK91192 Facility Name: FULTON F1-SA Site ID: F1-SA Location ID: QCCAN Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
 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: 12/21/2021 Time Collected: 0:00 Sample Collector: J. BRYANT Chlorination: Sample Type: T Received By: HZ Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C
Sample ID: AK91193 Facility Name: FULTON F2 F1-SA FB Site ID: F2 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
 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 Date Received: 1/5/2022 Time Received: 11:37 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 21.0 °C
Sample ID: AK91194 Facility Name: FULTON F2 Site ID: F2 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
 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: 12/24/2021 Time Collected: 0:00 Sample Collector: C. CULBERT Chlorination: Sample Type: Received By: HZ
	Date Received: 1/5/2022 Time Received: 7:54 AM Project: DATA STUDY Reporting Date: 2/18/2022 Received Temperature: 20.6 °C
Sample ID: AK91195 Facility Name: douglas - general coffee Site ID: 013-069-0002 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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
 RL: Reporting Limit
 LSPC: result less than lower specification
 USPC: result greater than upper specification
 TIE: Tentatively Identified or Estimated
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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 Date Received: 12/29/2021 Time Received: 11:40 AM Project: AIR Reporting Date: 2/18/2022 Received Temperature: 19.9 °C
Sample ID: AK91196 Facility Name: south dekalb Site ID: 013-089-0002 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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 Date Received: 1/4/2022 Time Received: 10:43 AM Project: AIR Reporting Date: 2/18/2022 Received Temperature: 3.9 °C
Sample ID: AK92591 Facility Name: SOUTH DEKALB Site ID: 013-089-0002 Location ID: Location Descr:	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
							ANALYST	DATE	
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

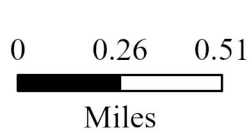
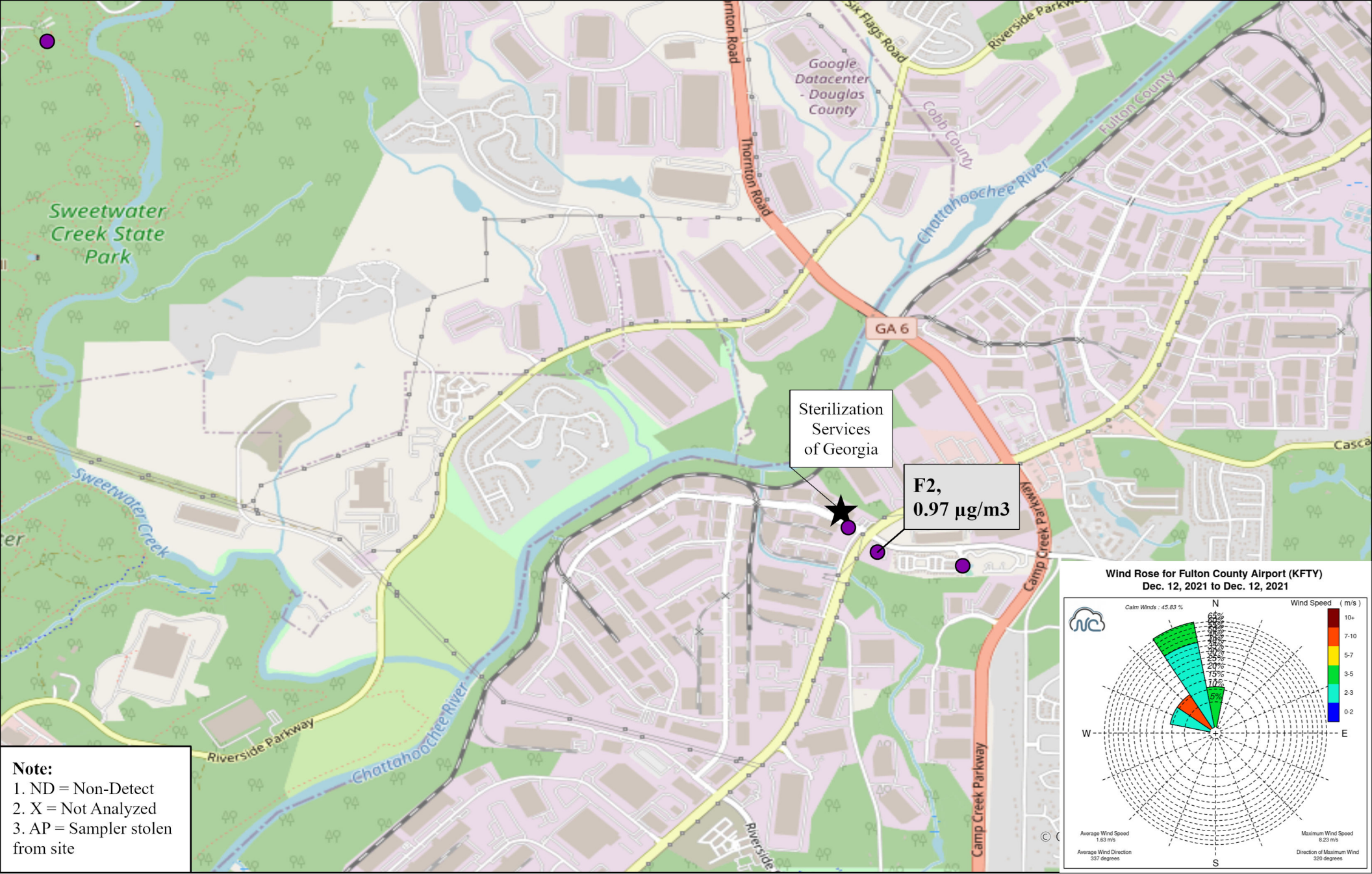
COMMENTS: \$ETO received in the lab at 5.2 psi.

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

<: less than
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Site ID, Concentration (µg/m³)

Ethylene Oxide Sampling
Fulton County, GA

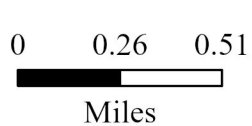
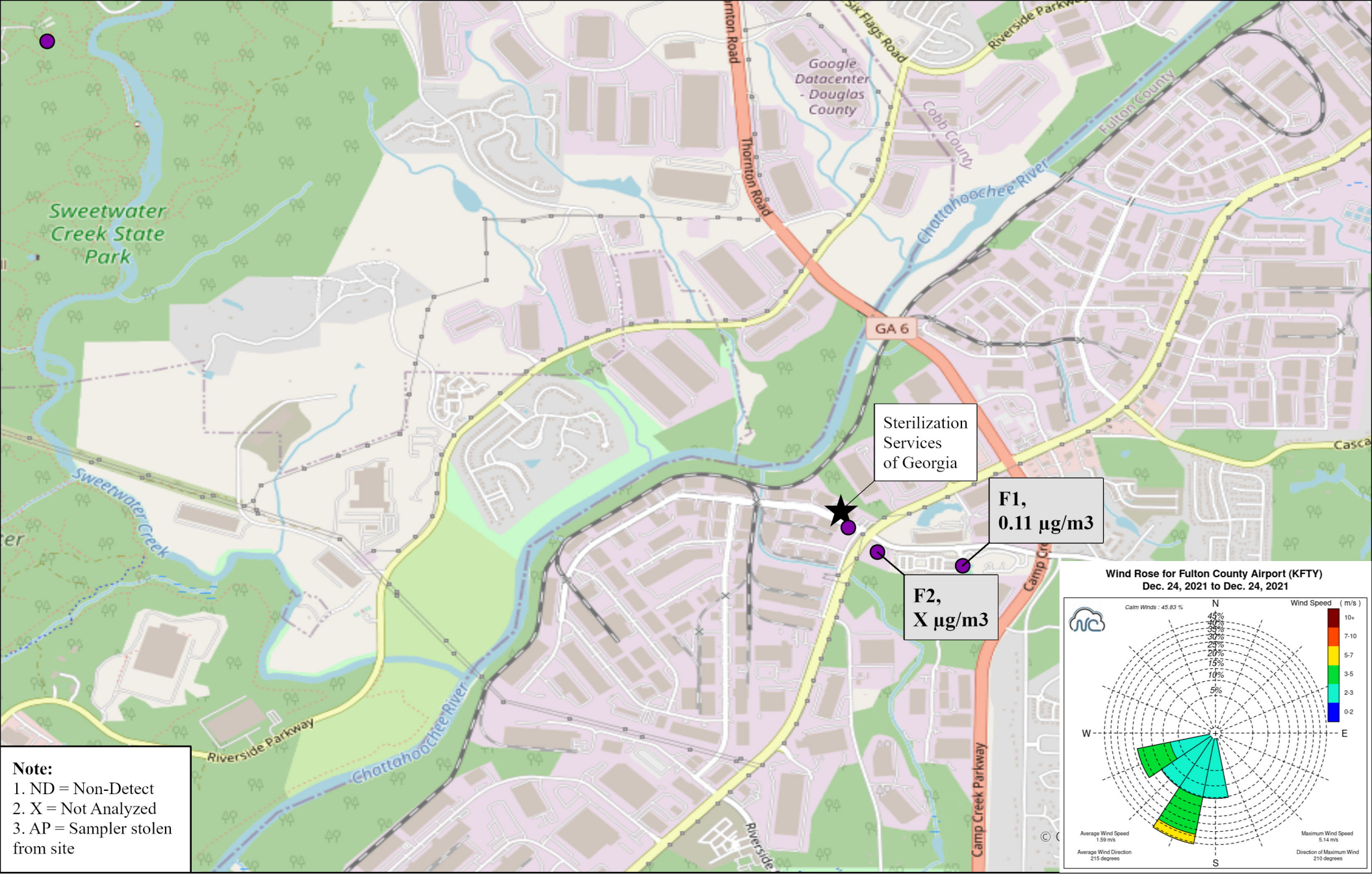
12/12/2021

Sampled By: Georgia Environmental Protection Division
Analyzed By: Georgia Environmental Protection Division



GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



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

Ethylene Oxide Sampling
 Fulton County, GA

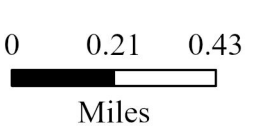
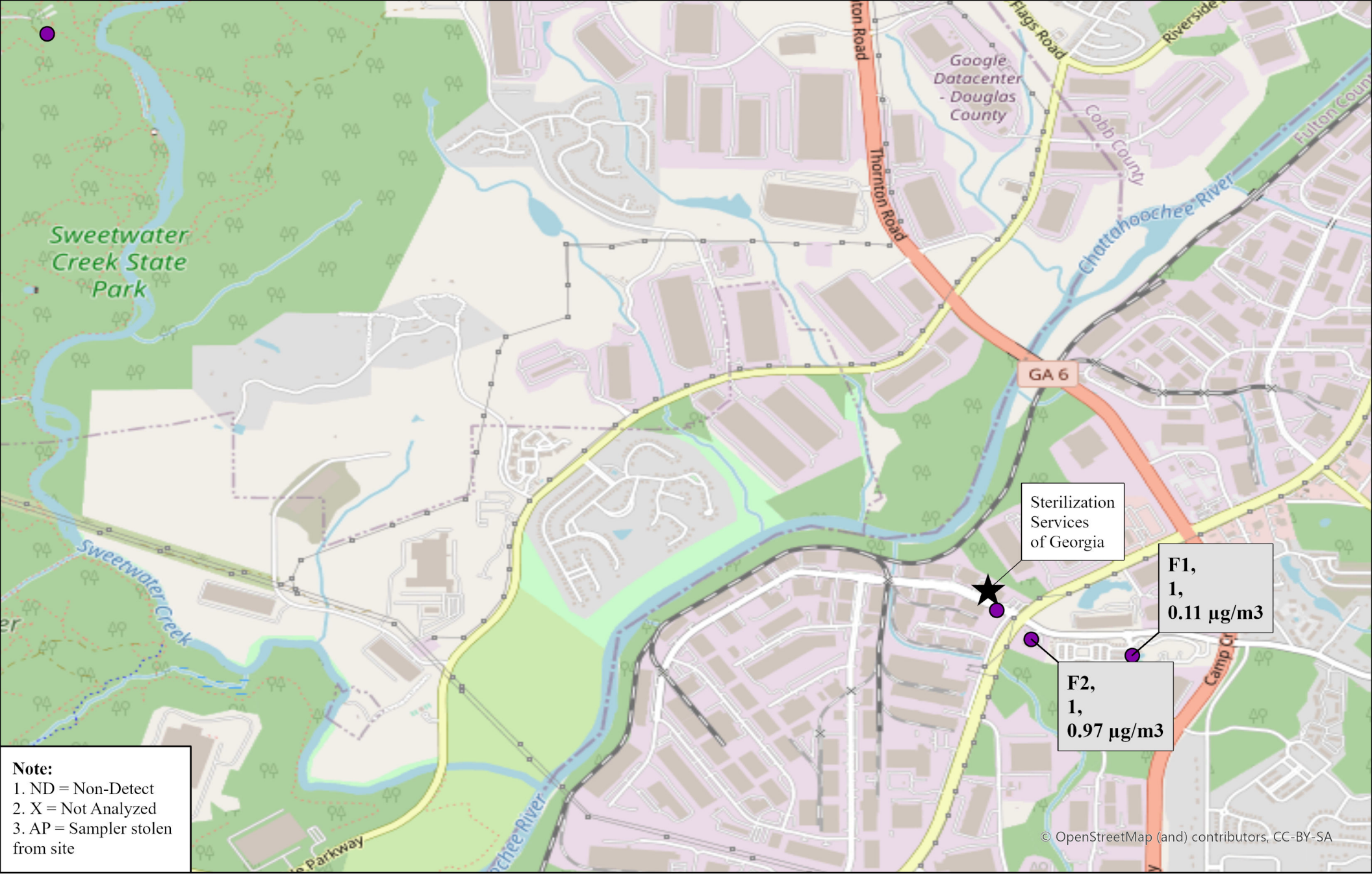
12/24/2021

Sampled By: Georgia Environmental Protection Division
 Analyzed By: Georgia Environmental Protection Division



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 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



Site ID, Number of Samples, Concentration (µg/m³)

Ethylene Oxide Sampling
Fulton County, GA

December 2021 Site Average Values
 Note: Not detectable values were included in average calculations as a value of 0.
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Georgia Environmental Protection Division

