

ENVIRONMENTAL PROTECTION DIVISION

February 1, 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

Through: James Boylan, Assistant Branch Chief

Through: DeAnna Oser, Ambient Monitoring Program Manager

From: Jaime Gore, Operations 1 Unit Manager

RE: Cobb – November 6 – 30, 2021, Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of November 6 – November 30, 2021, by the Ambient Monitoring Program in the Cobb area to characterize the EtO concentration. Each of the samples were sent to the Georgia Environmental Protection Division Laboratory (EPD) for analysis. The Qualifier code of "2" was given to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. The Qualifier code of "3" was given to samples to indicate that integrity of the field data may have been compromised.

Location	Date	Qualifier	EtO Concentration (μg/m³)
S2	11/06/2021	2,3	0.22
S2	11/18/2021	2,3	0.34
S2	11/30/2021	3	0.27
S2 QA	11/06/2021	3	0.17
S6 SA	11/18/2021	2	0.25
S7 SA	11/18/2021	2	0.24

If you have any questions, please let me know.

JCG

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

LABORATORY REPORT

	Date Collected:	11/6/2021	
	Time Collected:	0:00	
TO: Co EDD Air Drogram	Sample Collector:	J. BRYANT	
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:		
4244 International Pkwy Ste 120	Sample Type:		
Atlanta, GA 30354	Received By:	HZ	
O 1 ID AV60007	Date Received:	11/30/2021	
Sample ID: AK89007 Facility Name: COBB S2 QA	Time Received:	11:53 AM	
Site ID: S2-QA	Project:	DATA STUDY	
Location ID: QCCAN	Reporting Date:	1/18/2022	
Location Descr:	Received Temperature:	21.5 °C	

F	ARAMETER EPA			QUALIFIER			ANALYSIS		MCL or	
ANALYTE	CODE	NOTE METHOD	RESULT	UNITS RL		ANALYST DATE		QC Range		
ETO by EPA Method TO-15 QC Ba	atch 19394	13								
Bromofluorobenzene(Surrogate QC Std	.)	EPA TO-15	10.3852	ppbV		KL	11/30/2021	8 to	12	
Ethylene Oxide		EPA TO-15	0.0920	ppbV	0.016	KL	11/30/2021			
ETO Results by EPA Method TO-	15									
Bromofluorobenzene(Surrogate QC Std	.)	EPA TO-15	74.2855	ug/m3		KL	11/30/2021	57.22 to	85.84	
Ethylene Oxide		EPA TO-15	0.1658	ug/m3	0.0288	KL	11/30/2021			

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 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

Sample ID: AK89007 Page 1

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

LABORATORY REPORT

	Date Collected:	11/6/2021
	Time Collected:	0:00
TO: Co EDD Air Brogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
Committee Mc20000	Date Received:	11/30/2021
Sample ID: AK89008 Facility Name: COBB S2	Time Received:	11:53 AM
Site ID: S2	Project:	DATA STUDY
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	19.9 °C

FANALYTE	PARAMETEI CODE	R EPA NOTE METHOD	RESULT	QUA UNITS	LIFIER RL	ΔΝΔΙ Υ	ANALYSIS ST DATE	MCL QC Ra	
ANALITE	0002	1012211102	KLOULI	UNITS	INL	ANALI	31 DAIL	QUIN	ange
ETO by EPA Method TO-15 QC Ba	atch 193943	}							
Bromofluorobenzene(Surrogate QC Std	.)	EPA TO-15	10.3898	ppbV		KL	11/30/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1234	ppbV	0.016	KL	11/30/2021		
ETO Results by EPA Method TO-	15								
Bromofluorobenzene(Surrogate QC Std	.)	EPA TO-15	74.3184	ug/m3		KL	11/30/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.2224	ug/m3	0.0288	KL	11/30/2021		

COMMENTS: \$ETO received in the lab at 10 in Hg.

ug/L: micrograms/liter mg/L: milligrams/kilogram ug/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

Sample ID: AK89008 Page 1

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

LABORATORY REPORT

Date Collected: 11/6/2021 Time Collected: 0:00 Sample Collector: J. BRYANT TO: Ga EPD Air Program Chlorination: **EPD Air Prot Ambient Monitoring** 4244 International Pkwy Ste 120 Sample Type: Atlanta, GA 30354 Received By: ΗZ Date Received: 11/30/2021 Sample ID: AK89009 Time Received: 11:53 AM Facility Name: COVINGTON C2 QA Project: **DATA STUDY** Site ID: C2-QA Location ID: Reporting Date: 1/18/2022 Received Temperature: 23.5 Location Descr:

ı	PARAMETE	ARAMETER EPA			QUALIFIER		ANALYSIS		MCL or	
ANALYTE	CODE	NOTE METHOD	RESULT	UNITS	RL ANALY		ST DATE	QC R	ange	
ETO by EPA Method TO-15 QC B	atch 19394	3								
Bromofluorobenzene(Surrogate QC Std	l.)	EPA TO-15	9.7678	ppbV		KL	11/30/2021	8 to	12	
Ethylene Oxide		EPA TO-15	0.0930	ppbV	0.016	KL	11/30/2021			
ETO Results by EPA Method TO-	15									
Bromofluorobenzene(Surrogate QC Std	l.)	EPA TO-15	69.8692	ug/m3		KL	11/30/2021	57.22 to	85.84	
Ethylene Oxide		EPA TO-15	0.1676	ug/m3	0.0288	KL	11/30/2021			

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:

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

Sample ID: AK89009 Page 1

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

LABORATORY REPORT

	Date Collected:	11/6/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
O LID AVGORAG	Date Received:	11/30/2021
Sample ID: AK89010 Facility Name: COVINGTON C2	Time Received:	11:53 AM
Site ID: C2	Project:	DATA STUDY
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	21.9 °C

	PARAMETE			QUA	ALIFIER		ANALYSIS	MCL	
ANALYTE	CODE	NOTE METHOD	RESULT	UNITS	RL .	ANALY	ST DATE	QC R	ange
ETO by EPA Method TO-15 QC B	atch 19394	3							
Bromofluorobenzene(Surrogate QC Sto	l.)	EPA TO-15	10.3840	ppbV		KL	11/30/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.0941	ppbV	0.016	KL	11/30/2021		
ETO Results by EPA Method TO-	15								
Bromofluorobenzene(Surrogate QC Sto	l.)	EPA TO-15	74.2769	ug/m3		KL	11/30/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.1696	ug/m3	0.0288	KL	11/30/2021		

COMMENTS: \$ETO received in the lab at 4 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:**

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

Sample ID: AK89010 Page 1

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

LABORATORY REPORT

	Date Collected:	11/6/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
0 1 10 1/20040	Date Received:	11/30/2021
Sample ID: AK89012 Facility Name: FULTON F2 QA	Time Received:	11:53 AM
Site ID: F2-QA	Project:	DATA STUDY
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	23.9 °C

ANALYTE	PARAMET CODE	ER EPA NOTE METHOD	RESULT	QU <i>A</i> UNITS	LIFIER RL	ANALY	ANALYSIS ST DATE	MCL QC R	
ETO by EPA Method TO-15 QC I	3atch 1939	13							
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	10.7277	ppbV		KL	11/30/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1809	ppbV	0.016	KL	11/30/2021		
ETO Results by EPA Method TO	-15								
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	76.7354	ug/m3		KL	11/30/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.3261	ug/m3	0.0288	KL.	11/30/2021		

COMMENTS: \$ETO received in the lab at 6 in Hg.

ug/L: micrograms/liter mg/L: milligrams/kilogram ug/kg: milligrams/kilogram ug/g: 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

Sample ID: AK89012 Page 1

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

LABORATORY REPORT

	Date Collected:	11/6/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
O LIB AVGOSTO	Date Received:	11/30/2021
Sample ID: AK89013 Facility Name: FULTON F2	Time Received:	11:53 AM
Site ID: F2	Project:	DATA STUDY
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	23.6 °C

ANALYTE	PARAMETE CODE	R EPA NOTE METHOD	RESULT	QUA UNITS	LIFIER RL	ANALY:	ANALYSIS ST DATE	MCL QC R	
ETO by EPA Method TO-15 QC E	Batch 193943	3							
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	9.3154	ppbV		KL	11/30/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1492	ppbV	0.016	KL	11/30/2021		
ETO Results by EPA Method TO	-15								
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	66.6332	ug/m3		KL	11/30/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.2689	ug/m3	0.0288	KL	11/30/2021		

COMMENTS: \$ETO received in the lab at 9.5 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

VIOL: Violation (result exceeds MCL)

LSPC: result less than lower specification
USPC: result greater than upper specification
TIE: Tentatively Identified or Estimated

tion

Lab Director: Mark Tol Inorganics: Carmen Metals: Shene Jo

Mark Tolbert 470 Carmen Pyles 470 Shene Jones 470 Mary Bowman 470 Ralph Schulz 470

470-524-0577 470-524-0629 470-524-0544 470-524-0639

Organics: Mary Bowman 470-524-0639 GC Mass Spec: Ralph Schulz 470-524-0684 Microbiology: Mary Bowman 470-524-0709

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

LABORATORY REPORT

	Date Collected:	11/12/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	H. STREET
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Canister Number:	110342
4244 International Pkwy Ste 120	Canister Cleaned:	10/19/2021
Atlanta, GA 30354	Received By:	HZ
Committee Dr. Alcocott	Date Received:	11/16/2021
Sample ID: AK89014 Facility Name: SOUTH DEKALB QA	Time Received:	9:32 AM
Site ID: 013-089-0002	Project:	AIR
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	22.4 °C

PAR	AMETER EPA		QUA	LIFIER		ANALYSIS	MCL	or
ANALYTE	CODE NOTE METHOD	RESULT	UNITS	RL A	ANALYST DATE		QC Range	
ETO by EPA Method TO-15 QC Batch	า 193808							
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15	10.7721	ppbV		KL	11/16/2021	8 to	12
Ethylene Oxide	EPA TO-15	0.1051	ppbV	0.016	KL	11/16/2021		
ETO Results by EPA Method TO-15								
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15	77.053	ug/m3		KL	11/16/2021	57.22 to	85.84
Ethylene Oxide	EPA TO-15	0.1894	ug/m3	0.0288	KL	11/16/2021		
ETO NATTS QA Replicate Precision								
Ethylene Oxide	EPA TO-15	4.01	%RPD		KL	11/17/2021		25
ETO QA Replicate Result								
Bromofluorobenzene(Surrogate QC Std.)	EPA TO-15	10.7130	ppbV		KL	11/16/2021	8 to	12
Ethylene Oxide	EPA TO-15	0.1094	Vdqq		KL	11/16/2021		

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

Sample ID: AK89014 Page 1

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

LABORATORY REPORT

	Date Collected:	11/6/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	H. STREET
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Canister Number:	110257
4244 International Pkwy Ste 120	Canister Cleaned:	10/19/2021
Atlanta, GA 30354	Received By:	HZ
O LIB AVOCATE	Date Received:	11/9/2021
Sample ID: AK89015 Facility Name: SOUTH DEKALB	Time Received:	10:00 AM
Site ID: 013-089-0002	Project:	AIR
Location ID: QCCAN	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	22.9 °C

ANALYTE	PARAMETE CODE	ER EPA NOTE METHOD	RESULT	QUA UNITS	LIFIER RL	ANALY	ANALYSIS ST DATE	MCL QC R	
			KEGGET	ONTO		7.1.17.12.1	<u> </u>	Ψ	ango
ETO by EPA Method TO-15 QC B	atch 19380)8							
Bromofluorobenzene(Surrogate QC Std	.)	EPA TO-15	9.9653	ppbV		KL	11/16/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.0735	ppbV	0.016	KL	11/16/2021		
ETO Results by EPA Method TO-	15								
Bromofluorobenzene(Surrogate QC Std	.)	EPA TO-15	71.2819	ug/m3		KL	11/16/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.1325	ug/m3	0.0288	KL	11/16/2021		

COMMENTS: \$ETO received in the lab at 9.4 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

Sample ID: AK89015 Page 1

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

LABORATORY REPORT

Date Collected: 11/6/2021 Time Collected: 0:00 Sample Collector: C. CULBERT TO: Ga EPD Air Program Chlorination: **EPD Air Prot Ambient Monitoring** 4244 International Pkwy Ste 120 Sample Type: Atlanta, GA 30354 Received By: ΗZ Date Received: 11/16/2021 Sample ID: AK89016 Time Received: 9:32 AM Facility Name: GENERAL COFFEE Project: **DATA STUDY** Site ID: 013-069-0002 Location ID: Reporting Date: 1/18/2022 Location Descr:

	PARAMET	ER EPA	QUALIFIER				ANALYSIS	MCL or		
ANALYTE	CODE	NOTE METHOD	RESULT	UNITS RL AN		ANALY	ST DATE	QC Range		
ETO by EPA Method TO-15 QC I	Batch 1938	08								
Bromofluorobenzene(Surrogate QC St	:d.)	EPA TO-15	9.9078	ppbV			KL	11/16/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.0503	ppbV	SQ	0.016	KL	11/16/2021		
ETO Results by EPA Method TO	-15									
Bromofluorobenzene(Surrogate QC St	:d.)	EPA TO-15	70.8706	ug/m3			KL	11/16/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.0907	ug/m3	SQ	0.0288	3 KL	11/16/2021		

COMMENTS: \$ETO received in the lab at 21.4 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

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Sample ID: AK89016 Page 1

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

LABORATORY REPORT

Date Collected: 11/18/2021 Time Collected: 0:00 Sample Collector: C. CULBERT TO: Ga EPD Air Program Canister Number: 114386 **EPD Air Prot Ambient Monitoring** 4244 International Pkwy Ste 120 10/19/2021 Canister Cleaned: Atlanta, GA 30354 Received By: ΗZ Date Received: 11/23/2021 Sample ID: AK89017 Time Received: 8:07 AM Facility Name: GEN. COFFEE Project: AIR Site ID: 013-069-0002 Location ID: Reporting Date: 1/18/2022 Received Temperature: 19.9 Location Descr:

ANALYTE	PARAMETER EPA CODE NOTE METHOD RESU		RESULT	QUALIFIER UNITS RL			ANALY	ANALYSIS ST DATE	MCL or QC Range	
ETO by EPA Method TO-15 QC B	atch 19394	3								
Bromofluorobenzene(Surrogate QC Sto	d.)	EPA TO-15	9.6257	ppbV			KL	11/30/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.0513	ppbV	2	0.016	KL	11/30/2021		
ETO Results by EPA Method TO-	15									
Bromofluorobenzene(Surrogate QC Sto	d.)	EPA TO-15	68.8527	ug/m3			KL	11/30/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.0925	ug/m3	2	0.0288	3 KL	11/30/2021		

COMMENTS: \$ETO received in the lab at 20.6 psi. Pressure difference of >0.5 psi 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 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

Sample ID: AK89017 Page 1

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

LABORATORY REPORT

	Date Collected:	11/12/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	H. STREET
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Canister Number:	110322
4244 International Pkwy Ste 120	Canister Cleaned:	10/19/2021
Atlanta, GA 30354	Received By:	HZ
O LIB AVGOSTO	Date Received:	11/16/2021
Sample ID: AK89018 Facility Name: SOUTH DEKALB	Time Received:	9:32 AM
Site ID: 013-089-0002	Project:	AIR
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	20.9 °C

ANALYTE	PARAMET CODE	ER EPA NOTE METHOD	RESULT	QU <i>A</i> UNITS	LIFIER RL	ANALY	ANALYSIS ST DATE	MCL QC Ra	
ETO by EPA Method TO-15 QC E	Batch 1938	08							
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	10.3065	ppbV		KL	11/16/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.0971	ppbV	0.016	KL	11/16/2021		
ETO Results by EPA Method TO	-15								
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	73.7225	ug/m3		KL	11/16/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.175	ug/m3	0.0288	KL	11/16/2021		

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

ug/L: micrograms/liter mg/L: milligrams/kilogram ug/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

Sample ID: AK89018 Page 1

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

LABORATORY REPORT

	Date Collected:	11/18/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
0 1 10 41/20242	Date Received:	11/30/2021
Sample ID: AK89019 Facility Name: COBB S6 SA	Time Received:	11:53 AM
Site ID: S6-SA	Project:	DATA STUDY
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	21.9 °C

FANALYTE	PARAMETE CODE	R EPA NOTE METHOD	RESULT	QUA UNITS	LIFIER RL	ANALY:	ANALYSIS ST DATE	MCL QC Ra	
ETO by EPA Method TO-15 QC Ba	atch 19397	0							
Bromofluorobenzene(Surrogate QC Std	l.)	EPA TO-15	9.7070	ppbV		KL	12/1/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1371	ppbV	0.016	KL	12/1/2021		
ETO Results by EPA Method TO-	15								
Bromofluorobenzene(Surrogate QC Std	l.)	EPA TO-15	69.4343	ug/m3		KL	12/1/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.2471	ug/m3	0.0288	KL	12/1/2021		

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
ora/L: organisms/litor

<: 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

Sample ID: AK89019 Page 1

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

LABORATORY REPORT

	Date Collected:	11/18/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
O LID AVGGGGG	Date Received:	11/30/2021
Sample ID: AK89020 Facility Name: COBB S2	Time Received:	11:53 AM
Site ID: S2	Project:	DATA STUDY
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	24.6 °C

ANALYTE	PARAMET CODE	ER EPA NOTE METHOD	RESULT	QUA UNITS	LIFIER RL		ANALYSIS T DATE	MCL QC R	
ETO by EPA Method TO-15 QC E	3atch 1939	70							
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	10.7206	ppbV		KL	12/1/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1870	ppbV	0.016	KL	12/1/2021		
ETO Results by EPA Method TO	-15								
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	76.6846	ug/m3		KL	12/1/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.3371	ug/m3	0.0288	KL	12/1/2021		

COMMENTS: \$ETO received in the lab at 8 in Hg.

ug/L: micrograms/liter mg/L: milligrams/kilogram ug/kg: milligrams/kilogram ug/g: 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

Sample ID: AK89020 Page 1

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

LABORATORY REPORT

Date Collected: 11/18/2021 Time Collected: 0:00 Sample Collector: J. BRYANT TO: Ga EPD Air Program Chlorination: **EPD Air Prot Ambient Monitoring** 4244 International Pkwy Ste 120 Sample Type: Atlanta, GA 30354 Received By: ΗZ Date Received: 11/30/2021 Sample ID: AK89021 Time Received: 11:53 AM Facility Name: COBB S7 SA Project: **DATA STUDY** Site ID: S7-SA Location ID: Reporting Date: 1/18/2022 Received Temperature: 23.9 Location Descr:

F	ARAMETER EPA			QUA		ANALYSIS	MCL or		
ANALYTE	CODE NOTE METHOD		RESULT	UNITS RL		ANALYS	ST DATE	QC R	ange
ETO by EPA Method TO-15 QC Ba	atch 19397	70							
Bromofluorobenzene(Surrogate QC Std.	.)	EPA TO-15	9.4800	ppbV		KL	12/1/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1325	ppbV	0.016	KL	12/1/2021		
ETO Results by EPA Method TO-	15								
Bromofluorobenzene(Surrogate QC Std.	.)	EPA TO-15	67.8106	ug/m3		KL	12/1/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.2388	ug/m3	0.0288	KL	12/1/2021		

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:

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

Sample ID: AK89021 Page 1

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

LABORATORY REPORT

	Date Collected: Time Collected:	11/18/2021 0:00
TO: Ga EPD Air Program	Sample Collector:	J. BRYANT
EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
0 1 10 1/2000	Date Received:	11/30/2021
Sample ID: AK89022 Facility Name: COVINGTON C7 SA	Time Received:	11:53 AM
Site ID: C7-SA	Project:	DATA STUDY
Location ID: Location Descr:	Reporting Date: Received Temperature:	1/18/2022 22.9

	PARAMET		QUA		ANALYSIS	MCL or			
ANALYTE	CODE	NOTE METHOD	RESULT	UNITS	RL	ANALY:	ST DATE	QC R	ange
ETO by EPA Method TO-15 QC B	atch 1939	70							
Bromofluorobenzene(Surrogate QC Sto	l.)	EPA TO-15	9.4022	ppbV		KL	12/1/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.0891	ppbV	0.016	KL	12/1/2021		
ETO Results by EPA Method TO-	15								
Bromofluorobenzene(Surrogate QC Sto	l.)	EPA TO-15	67.254	ug/m3		KL	12/1/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.1606	ug/m3	0.0288	3 KL	12/1/2021		

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:

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

Sample ID: AK89022 Page 1

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

LABORATORY REPORT

	Date Collected: Time Collected:	11/18/2021 0:00
TO: Ga EPD Air Program	Sample Collector:	J. BRYANT
EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120 Atlanta, GA 30354	Sample Type:	
Aliania, GA 30334	Received By:	HZ
0 1 15 1/20044	Date Received:	11/30/2021
Sample ID: AK89841 Facility Name: COVINGTON C2	Time Received:	11:53 AM
Site ID: C2	Project:	DATA STUDY
Location ID: QCCAN Location Descr:	Reporting Date: Received Temperature:	1/18/2022 21.9 <i>∘</i> C

	PARAMET	ER EPA	QUALIFIER			ANALYSIS	MCL or		
ANALYTE CO		NOTE METHOD	RESULT	RESULT UNITS		ANALY:	ST DATE	QC Range	
ETO by EPA Method TO-15 QC B	Batch 1939	70							
Bromofluorobenzene(Surrogate QC Sto	d.)	EPA TO-15	10.5880	ppbV		KL	12/1/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1313	ppbV	0.016	KL	12/1/2021		
ETO Results by EPA Method TO-	-15								
Bromofluorobenzene(Surrogate QC Sto	d.)	EPA TO-15	75.7361	ug/m3		KL	12/1/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.2367	ug/m3	0.0288	KL	12/1/2021		

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

ug/L: micrograms/liter mg/L: milligrams/kilogram ug/kg: milligrams/kilogram ug/g: 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

Sample ID: AK89841 Page 1

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

LABORATORY REPORT

Date Collected: 11/18/2021 Time Collected: 0:00 Sample Collector: J. BRYANT TO: Ga EPD Air Program Chlorination: **EPD Air Prot Ambient Monitoring** 4244 International Pkwy Ste 120 Sample Type: Atlanta, GA 30354 Received By: ΗZ Date Received: 11/30/2021 Sample ID: AK89842 Time Received: 11:53 AM Facility Name: FULTON F2 Project: **DATA STUDY** Site ID: Location ID: Reporting Date: 1/18/2022 Received Temperature: 22.9 Location Descr:

	PARAMET	ER EPA	QUA		ANALYSIS	MCL or			
ANALYTE COL		NOTE METHOD RESU		UNITS RL		ANALY:	ST DATE	QC R	ange
ETO by EPA Method TO-15 QC E	Batch 1939	70							
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	10.8810	ppbV		KL	12/1/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.5508	ppbV	0.016	KL	12/1/2021		
ETO Results by EPA Method TO	-15								
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	77.8319	ug/m3		KL	12/1/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.9928	ug/m3	0.0288	KL	12/1/2021		

COMMENTS: \$ETO received in the lab at 10 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:**

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

Sample ID: AK89842 Page 1

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

LABORATORY REPORT

Date Collected: 11/18/2021 Time Collected: 0:00 Sample Collector: J. BRYANT TO: Ga EPD Air Program Chlorination: **EPD Air Prot Ambient Monitoring** 4244 International Pkwy Ste 120 Sample Type: Atlanta, GA 30354 Received By: ΗZ Date Received: 11/30/2021 Sample ID: AK89843 Time Received: 11:53 AM Facility Name: FULTON F1 SA Project: **DATA STUDY** Site ID: F1-SA Location ID: Reporting Date: 1/18/2022 Received Temperature: 24.6 Location Descr:

F ANALYTE	PARAMETE CODE	R EPA NOTE METHOD	RESULT	QUA UNITS	ANALY:	ANALYSIS ST DATE	MCL or QC Range		
ETO by EPA Method TO-15 QC Ba	atch 10307	0		O.M.TO	RL				
Bromofluorobenzene(Surrogate QC Std		EPA TO-15	10.2681	ppbV		KL	12/1/2021	8 to	12
Ethylene Oxide	.,	EPA TO-15	0.2121	ppbV	0.016	KL	12/1/2021	010	12
ETO Results by EPA Method TO-	15								
Bromofluorobenzene(Surrogate QC Std	.)	EPA TO-15	73.4478	ug/m3		KL	12/1/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.3823	ug/m3	0.0288	KL.	12/1/2021		

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:**

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

Sample ID: AK89843 Page 1

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

LABORATORY REPORT

Date Collected: 11/18/2021 Time Collected: 0:00 Sample Collector: H. STREET TO: Ga EPD Air Program Canister Number: 114313 **EPD Air Prot Ambient Monitoring** 4244 International Pkwy Ste 120 Canister Cleaned: 11/1/2021 Atlanta, GA 30354 Received By: ΗZ Date Received: 11/22/2021 Sample ID: AK89844 Time Received: 11:19 AM Facility Name: SOUTH DEKALB Project: AIR Site ID: 013-089-0002 Location ID: Reporting Date: 1/18/2022 Received Temperature: 20.4 Location Descr:

	PARAMET	ER EPA	QUALIFIER			ANALYSIS	MCL or		
ANALYTE	CODE	NOTE METHOD	RESULT	UNITS	RL	ANALY	ST DATE	QC R	ange
ETO by EPA Method TO-15 QC I	Batch 1939	43							
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	9.9692	ppbV		KL	11/30/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1168	ppbV	0.016	KL	11/30/2021		
ETO Results by EPA Method TO	-15								
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	71.3098	ug/m3		KL	11/30/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.2105	ug/m3	0.0288	KL	11/30/2021		

COMMENTS: \$ETO received in the lab at 5.8 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

Sample ID: AK89844 Page 1

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

LABORATORY REPORT

Date Collected: 11/30/2021 Time Collected: 0:00 Sample Collector: C. CULBERT TO: Ga EPD Air Program Chlorination: **EPD Air Prot Ambient Monitoring** 4244 International Pkwy Ste 120 Sample Type: Atlanta, GA 30354 Received By: ΗZ Date Received: 12/10/2021 Sample ID: AK89846 Time Received: 8:10 AM Facility Name: DOUGLAS - GENERAL COFFEE Project: **DATA STUDY** Site ID: 013-069-0002 Location ID: Reporting Date: 1/18/2022 Received Temperature: 14.3 Location Descr:

	PARAMET	PARAMETER EPA			QUALIFIER			ANALYSIS	MCL or	
ANALYTE	CODE	NOTE METHOD	RESULT	UNITS	UNITS RL		ANALY	ST DATE	QC R	ange
ETO by EPA Method TO-15 QC	Batch 1942	61								
Bromofluorobenzene(Surrogate QC S	Std.)	EPA TO-15	9.8673	ppbV			KL	12/15/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.0704	ppbV	SQ 2	0.0232	KL	12/15/2021		
ETO Results by EPA Method To	O-15									
Bromofluorobenzene(Surrogate QC S	Std.)	EPA TO-15	70.5809	ug/m3			KL	12/15/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.1269	ug/m3	SQ 2	0.0418	KL	12/15/2021		

COMMENTS: \$ETO received in the lab at 22.6 psi. Pressure difference of >0.5 psi 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 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

Sample ID: AK89846 Page 1

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

LABORATORY REPORT

	Date Collected: Time Collected:	11/24/2021 0:00
TO: Ga EPD Air Program	Sample Collector:	H. STREET
EPD Air Prot Ambient Monitoring	Canister Number:	114331
4244 International Pkwy Ste 120 Atlanta, GA 30354	Canister Cleaned: Received By:	11/1/2021 HZ
0 1 10 41/00047	Date Received:	11/29/2021
Sample ID: AK89847 Facility Name: south dekalb	Time Received:	11:20 AM
Site ID: 013-089-0002	Project:	AIR
Location ID: Location Descr:	Reporting Date: Received Temperature:	1/18/2022 20.5 °C

ANALYTE	PARAMET CODE	ER EPA NOTE METHOD	RESULT	QUA UNITS	LIFIER RL	ANALYS	ANALYSIS T DATE	MCL QC R	
ETO by EPA Method TO-15 QC B	Satch 19397	70							
Bromofluorobenzene(Surrogate QC Sto	d.)	EPA TO-15	9.7616	ppbV		KL	12/1/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1014	ppbV	0.016	KL	12/1/2021		
ETO Results by EPA Method TO-	-15								
Bromofluorobenzene(Surrogate QC Sto	d.)	EPA TO-15	69.8248	ug/m3		KL	12/1/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.1828	ug/m3	0.0288	KL	12/1/2021		

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

ug/L: micrograms/liter mg/L: milligrams/kilogram ug/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

Sample ID: AK89847 Page 1

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

LABORATORY REPORT

	Date Collected:	11/29/2021
	Time Collected:	0:00
TO: Co EDD Air Brogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
O LID AVGORAG	Date Received:	12/8/2021
Sample ID: AK89849 Facility Name: COBB S2 FB	Time Received:	11:35 AM
Site ID: S2	Project:	DATA STUDY
Location ID: QCCAN	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	20.6 °C

ANALYTE	PARAMETE CODE	R EPA NOTE METHOD	RESULT	Q UNITS	UALIFIE		ANALY	ANALYSIS ST DATE	MCL QC R	
ETO by EPA Method TO-15 QC E	Batch 19426	1								
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	10.0629	ppbV			KL	12/15/2021	8 to	12
Ethylene Oxide		EPA TO-15	0	ppbV	ND	0.0232	KL	12/15/2021		
ETO Results by EPA Method TO	-15									
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	71.98	ug/m3			KL	12/15/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0	ug/m3	ND	0.0418	KL	12/15/2021		

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

ug/L: micrograms/liter mg/L: milligrams/liter <: less than **Laboratory Contacts:** MCL: Maximum Contaminant Level Lab Director: Mark Tolbert 470-524-0577 mg/kg: milligrams/kilogram RL: Reporting Limit Inorganics: Carmen Pyles 470-524-0629 ug/kg: micrograms/kilogram Metals: LSPC: result less than lower specification Shene Jones 470-524-0544 ug/g: micrograms/gram USPC: result greater than upper specification Organics: Mary Bowman 470-524-0639 ppm: parts per million TIE: Tentatively Identified or Estimated GC Mass Spec: Ralph Schulz 470-524-0684 ppb: parts per billion VIOL: Violation (result exceeds MCL) org/L: organisms/liter Microbiology: Mary Bowman 470-524-0709

Sample ID: AK89849 Page 1

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

LABORATORY REPORT

	Date Collected:	11/29/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	Т
Atlanta, GA 30354	Received By:	HZ
O LID AVOCCEO	Date Received:	12/8/2021
Sample ID: AK89850 Facility Name: FULTON F2 FB	Time Received:	11:35 AM
Site ID: F2	Project:	DATA STUDY
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	21.9 °C

ANALYTE	PARAMETI CODE	ER EPA NOTE METHOD	RESULT	Q UNITS	UALIFIE		ANALY	ANALYSIS ST DATE	MCL QC R	
ETO by EPA Method TO-15 QC B	atch 19426	61								
Bromofluorobenzene(Surrogate QC Sto	d.)	EPA TO-15	9.9369	ppbV			KL	12/15/2021	8 to	12
Ethylene Oxide		EPA TO-15	0	ppbV	ND	0.0232	KL	12/15/2021		
ETO Results by EPA Method TO-	15									
Bromofluorobenzene(Surrogate QC Sto	d.)	EPA TO-15	71.0788	ug/m3			KL	12/15/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0	ug/m3	ND	0.0418	KL	12/15/2021		

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 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

Sample ID: AK89850 Page 1

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

LABORATORY REPORT

	Date Collected:	11/30/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
O LID AVGOSTA	Date Received:	12/8/2021
Sample ID: AK89851 Facility Name: COVINGTON C2	Time Received:	11:35 AM
Site ID: C2	Project:	DATA STUDY
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	23.5 °C

F ANALYTE	PARAMETE CODE	R EPA NOTE METHOD	RESULT	QUA UNITS	LIFIER RL A	NALY	ANALYSIS ST DATE	MCL QC Ra	
ETO by EPA Method TO-15 QC Ba	atch 19426	1							
Bromofluorobenzene(Surrogate QC Std		EPA TO-15	10.9938	ppbV		KL	12/15/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.2060	ppbV	0.0232	KL	12/15/2021		
ETO Results by EPA Method TO-	15								
Bromofluorobenzene(Surrogate QC Std	.)	EPA TO-15	78.6388	ug/m3		KL	12/15/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.3713	ug/m3	0.0418	KL	12/15/2021		

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 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

Sample ID: AK89851 Page 1

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

LABORATORY REPORT

	Date Collected: Time Collected:	11/29/2021 0:00
TO: Ga EPD Air Program	Sample Collector:	J. BRYANT
EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120 Atlanta, GA 30354	Sample Type:	
Aliania, GA 30334	Received By:	HZ
O LID AVGOODS	Date Received:	12/8/2021
Sample ID: AK89852 Facility Name: COVINGTON C2 FB	Time Received:	11:34 AM
Site ID: C2	Project:	DATA STUDY
Location ID: Location Descr:	Reporting Date: Received Temperature:	1/18/2022 19.6 <i>∘C</i>

ANALYTE	PARAMETE CODE	ER EPA NOTE METHOD	RESULT	Q UNITS	UALIFIE		ANALY	ANALYSIS ST DATE	MCL QC Ra	
ETO by EPA Method TO-15 QC B	atch 19426	:1								
Bromofluorobenzene(Surrogate QC Sto		EPA TO-15	9.8793	ppbV			KL	12/15/2021	8 to	12
Ethylene Oxide		EPA TO-15	0	ppbV	ND	0.0232	KL	12/15/2021		
ETO Results by EPA Method TO-	15									
Bromofluorobenzene(Surrogate QC Sto	d.)	EPA TO-15	70.6667	ug/m3			KL	12/15/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0	ug/m3	ND	0.0418	KL	12/15/2021		

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 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

Sample ID: AK89852 Page 1

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

LABORATORY REPORT

	Date Collected:	11/30/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
O LID AVOCCEO	Date Received:	12/8/2021
Sample ID: AK89853 Facility Name: COBB S2	Time Received:	11:34 AM
Site ID: S2	Project:	DATA STUDY
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	24.6 °C

ANALYTE	PARAMETI CODE	ER EPA NOTE METHOD	RESULT	QUA UNITS	LIFIER RL <i>A</i>	NALY	ANALYSIS ST DATE	MCL QC Ra	
ETO by EPA Method TO-15 QC E	Batch 19426	S1							
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	11.0489	ppbV		KL	12/15/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1511	ppbV	0.0232	KL	12/15/2021		
ETO Results by EPA Method TO	-15								
Bromofluorobenzene(Surrogate QC St	d.)	EPA TO-15	79.0329	ug/m3		KL	12/15/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.2724	ug/m3	0.0418	KL	12/15/2021		

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
ora/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

Sample ID: AK89853 Page 1

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

LABORATORY REPORT

	Date Collected:	11/30/2021
	Time Collected:	0:00
TO: Co EDD Air Drogram	Sample Collector:	J. BRYANT
TO: Ga EPD Air Program EPD Air Prot Ambient Monitoring	Chlorination:	
4244 International Pkwy Ste 120	Sample Type:	
Atlanta, GA 30354	Received By:	HZ
0 1 10 41/20254	Date Received:	12/8/2021
Sample ID: AK89854 Facility Name: FULTON F2	Time Received:	11:35 AM
Site ID: F2	Project:	DATA STUDY
Location ID:	Reporting Date:	1/18/2022
Location Descr:	Received Temperature:	21.9 °C

FANALYTE	ARAMETE CODE			QUALIFIER UNITS RL A		ANALYSIS ANALYST DATE		MCL or QC Range	
ANALITE	0052	NOTE INCTITION	KLOULI	UNITS	INL A	MALI	31 5/112	QC /\a	ange
ETO by EPA Method TO-15 QC Ba	atch 19426	1							
Bromofluorobenzene(Surrogate QC Std	.)	EPA TO-15	9.6594	ppbV		KL	12/15/2021	8 to	12
Ethylene Oxide		EPA TO-15	0.1759	ppbV	0.0232	KL	12/15/2021		
ETO Results by EPA Method TO-	15								
Bromofluorobenzene(Surrogate QC Std	.)	EPA TO-15	69.0938	ug/m3		KL	12/15/2021	57.22 to	85.84
Ethylene Oxide		EPA TO-15	0.3171	ug/m3	0.0418	KL	12/15/2021		

COMMENTS: \$ETO received in the lab at 8.5 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
ora/L: organisms/litor

<: 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:

D	oratory Conta	CIS:	
	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

Sample ID: AK89854 Page 1

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

LABORATORY REPORT

Date Collected: 11/30/2021 Time Collected: 0:00 Sample Collector: H. STREET TO: Ga EPD Air Program Canister Number: 114344 **EPD Air Prot Ambient Monitoring** 4244 International Pkwy Ste 120 Canister Cleaned: 11/1/2021 Atlanta, GA 30354 Received By: ΗZ Date Received: 12/2/2021 Sample ID: AK89856 Time Received: 10:41 AM Facility Name: SOUTH DEKALB Project: AIR Site ID: 013-089-0002 Location ID: Reporting Date: 1/18/2022 Location Descr: Received Temperature: 20.9

NOTE METHOD					OT DATE	MCL or	
	RESULT	UNITS	RL A	NALY	ST DATE	QC R	ange
261							
EPA TO-15	9.7276	ppbV		KL	12/15/2021	8 to	12
EPA TO-15	0.1281	ppbV	0.0232	KL	12/15/2021		
EPA TO-15	69.5816	ug/m3		KL	12/15/2021	57.22 to	85.84
EPA TO-15	0.2309	ug/m3	0.0418	KL	12/15/2021		
	EPA TO-15	EPA TO-15 9.7276 EPA TO-15 0.1281 EPA TO-15 69.5816 EPA TO-15 0.2309	EPA TO-15 9.7276 ppbV EPA TO-15 0.1281 ppbV EPA TO-15 69.5816 ug/m3 EPA TO-15 0.2309 ug/m3	EPA TO-15 9.7276 ppbV EPA TO-15 0.1281 ppbV 0.0232 EPA TO-15 69.5816 ug/m3 EPA TO-15 0.2309 ug/m3 0.0418	EPA TO-15 9.7276 ppbV KL EPA TO-15 0.1281 ppbV 0.0232 KL EPA TO-15 69.5816 ug/m3 KL EPA TO-15 0.2309 ug/m3 0.0418 KL	EPA TO-15 9.7276 ppbV KL 12/15/2021 EPA TO-15 0.1281 ppbV 0.0232 KL 12/15/2021 EPA TO-15 69.5816 ug/m3 KL 12/15/2021 EPA TO-15 0.2309 ug/m3 0.0418 KL 12/15/2021	EPA TO-15 9.7276 ppbV KL 12/15/2021 8 to EPA TO-15 0.1281 ppbV 0.0232 KL 12/15/2021 8 to EPA TO-15 69.5816 ug/m3 KL 12/15/2021 57.22 to 57.22 to EPA TO-15 0.2309 ug/m3 0.0418 KL 12/15/2021 12/15/2021

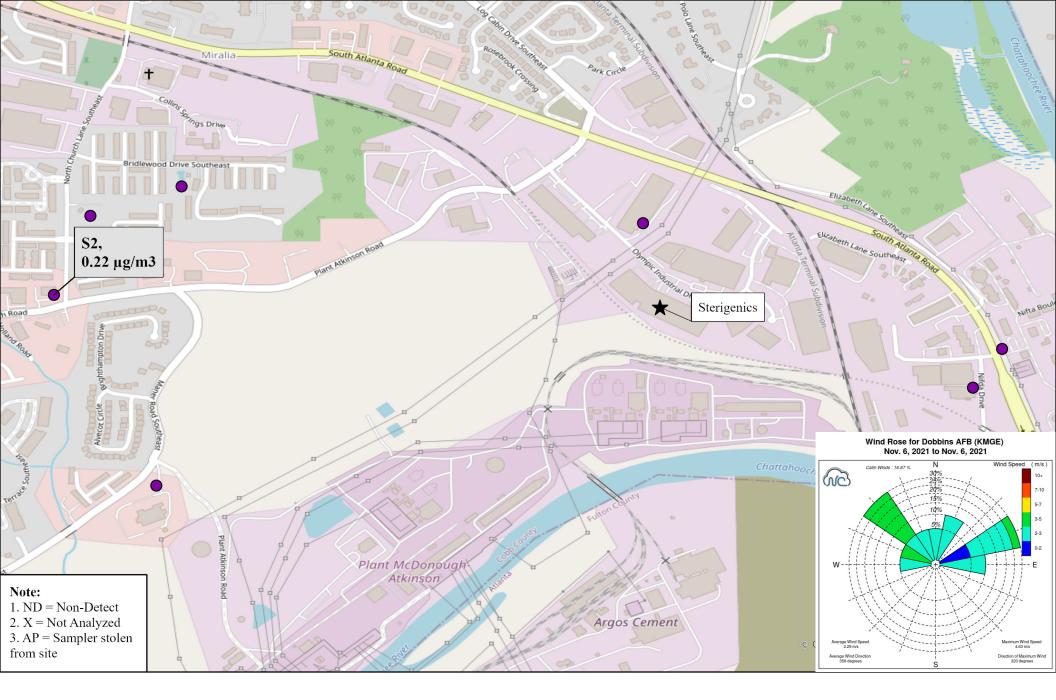
ug/L: micrograms/liter
mg/L: milligrams/liter
mg/kg: milligrams/kilogram
ug/kg: micrograms/kilogram
ug/g: micrograms/gram
ppm: parts per million
ppb: parts per billion
ora/l · organisms/liter

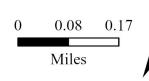
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Sample ID: AK89856 Page 1



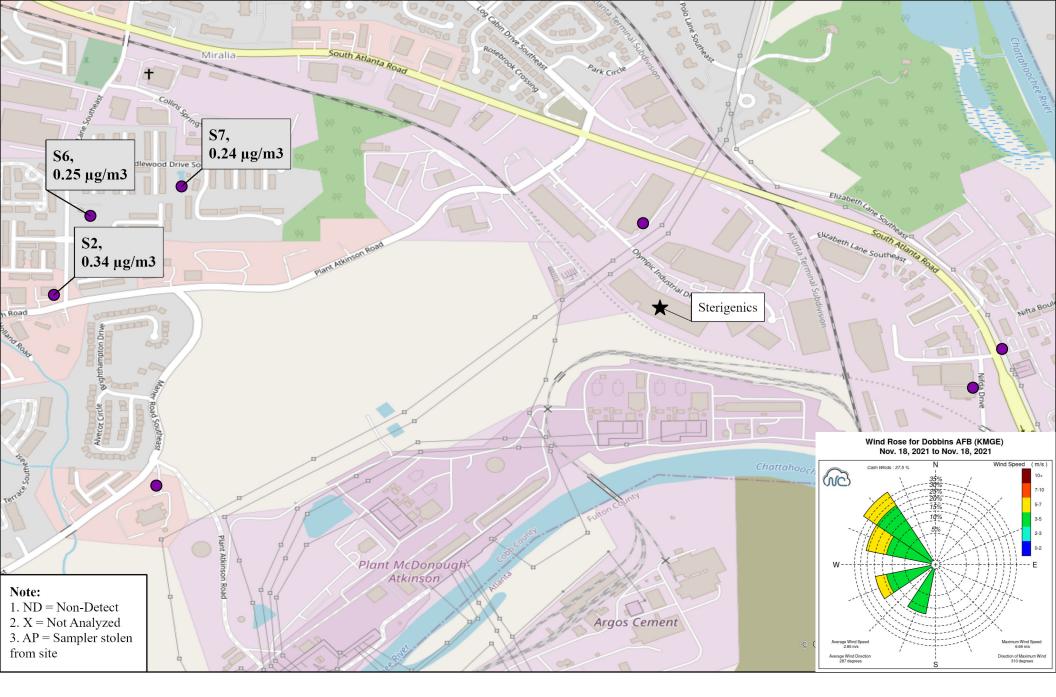


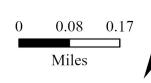
Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling Cobb County, GA

11/06/2021





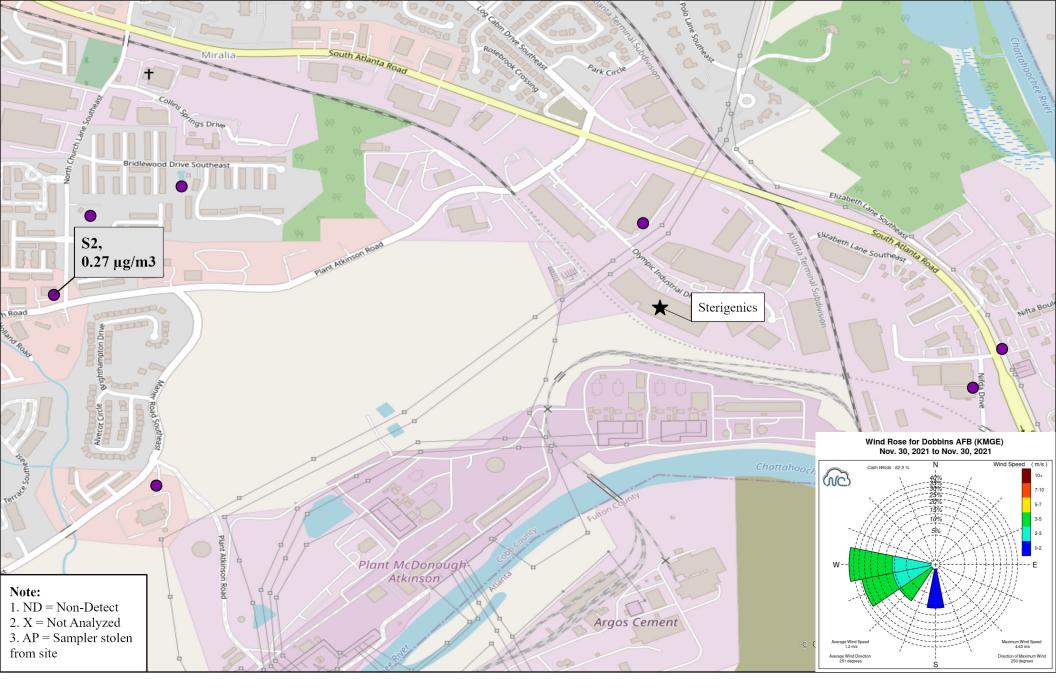


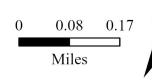
Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling Cobb County, GA

11/18/2021





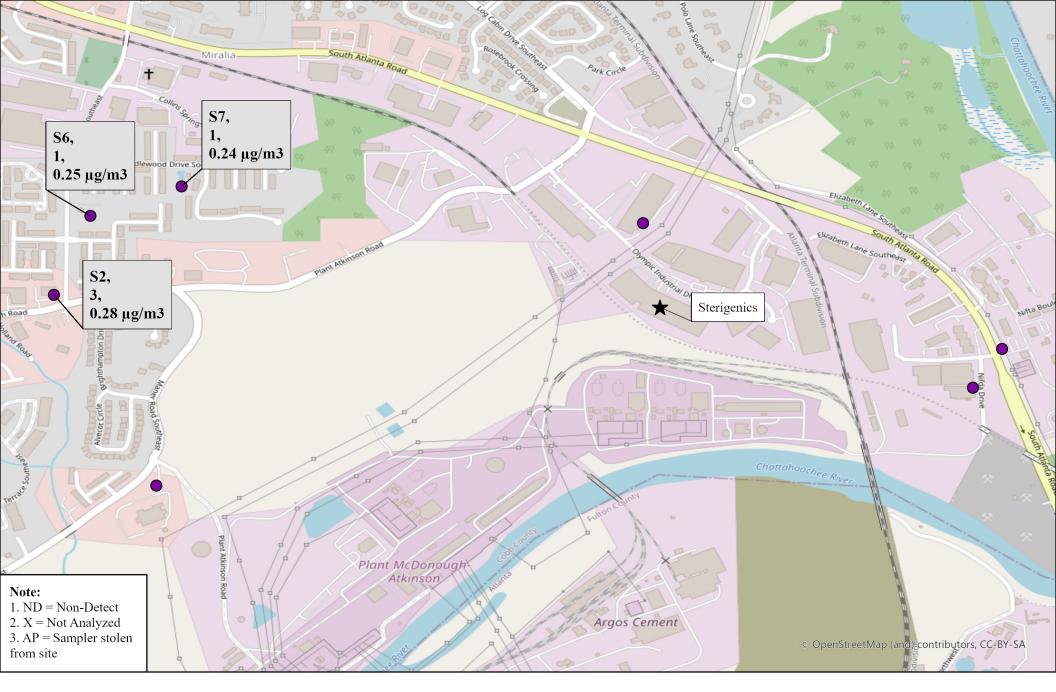


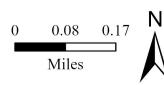
Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling Cobb County, GA

11/30/2021







Site ID, Number of Samples, Concentration (μg/m3) Ethylene Oxide Sampling Cobb County, GA

November 2021 Site Average Values

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

