



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Air Protection Branch

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MEMORANDUM:

TO: Stephen Damaske
THROUGH: Daniel McCain
FROM: Joshua Pittman
SUBJECT: SOURCE TEST REPORT REVIEW

The following test has been reviewed and was conducted in an acceptable fashion for the purpose intended.

COMPANY NAME	Sterilization Services of Georgia				
COMPANY LOCATION	Atlanta, GA				
SOURCE TESTED	Chemroxx Scrubber Outlet - Chamber 1				
POLLUTANT DETERMINED	Ethylene Oxide				
REPORT REVIEWED BY	Joshua Pittman				
TEST WITNESSED BY	Marie Miller, Ray Shen				
DATE(S) OF TEST	February 23, 2021				
DATE RECEIVED BY APB	April 27, 2021				
MAXIMUM EXPECTED OPERATING CAPACITY	13 UNITS				
OPERATING CAPACITY	0 UNITS				
ALLOWABLE EMISSION RATE	99.0 % DRE				
APPLICABLE REGULATION	Permit 3841-121-0010-S-03-0, Condition 2.4. 40 CFR 63.362				
CONTROL EQUIPMENT AND MONITORING DATA	Liquid Glycol % (Before/After) = 14.7/14.7 See Appendix K of test report.				
TEST RUN #		1	2	3	AVERAGE
GAS TEMPERATURE (°F)	Inlet				
	Outlet	59.2	71.8	73.9	
GAS MOISTURE (%)	Inlet				
	Outlet	1.60	1.52	1.25	
GAS FLOW RATE (ACFM)	Inlet				
	Outlet	64	79	61	
GAS FLOW RATE (DSCFM)	Inlet				
	Outlet	62	75	58	
POLLUTANT CONCENTRATION (PPM)	Inlet				
	Outlet	4.580	5.246	10.340	
EMISSION RATE (LB/MIN)	Inlet	2.511	1.356	2.608	2.158
	Outlet	0.0000327	0.0000450	0.0000684	0.0000487
DESTRUCTION EFFICIENCY (%)	99.998				
OTHER INFORMATION	<p>Inlet emission rate is based on the amount of ethylene oxide charged to the sterilization chamber.</p> <p>The outlet results for Run 1 were below the minimum detection limit. The minimum detection limit was used to calculate the concentration and emission rate for Run 1.</p>				