



# GEORGIA

DEPARTMENT OF NATURAL RESOURCES

## ENVIRONMENTAL PROTECTION DIVISION

**Richard E. Dunn, Director**

**Air Protection Branch**

4244 International Parkway, Suite 120  
Atlanta, Georgia 30354  
404-363-7000

**MEMORANDUM:**

TO: Stephen Damaske  
THROUGH: Daniel McCain  
FROM: Ray Shen  
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 Wet Scrubber (Stack ID EP4)				
POLLUTANT DETERMINED	Ethylene Oxide				
REPORT REVIEWED BY	Ray Shen				
TEST WITNESSED BY	Marie Miller, Ray Shen				
DATE(S) OF TEST	May 13, 2020				
DATE RECEIVED BY APB	July 16, 2020				
MAXIMUM EXPECTED OPERATING CAPACITY	34 UNITS				
OPERATING CAPACITY	0 UNITS				
ALLOWABLE EMISSION RATE	99.0 % DRE				
APPLICABLE REGULATION	Permit 3841-121-0010-S-03-0; Condition 2.4 and 40 CFR 63.362				
CONTROL EQUIPMENT AND MONITORING DATA	Liquid Glycol % (Before/After) = 36.8/36.8 See Appendix K of test report.				
	<b>TEST RUN #</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>AVERAGE</b>
GAS TEMPERATURE (°F)	Inlet				
	Outlet	61.1	75.4	86.3	
GAS MOISTURE (%)	Inlet				
	Outlet	1.09	1.13	1.18	
GAS FLOW RATE (ACFM)	Inlet				
	Outlet	37	34	34	
GAS FLOW RATE (DSCFM)	Inlet				
	Outlet	37	32	32	
POLLUTANT CONCENTRATION (PPMVD @ 15% O2)	Inlet				
	Outlet	<1.20	0.849	5.35	2.47
EMISSION RATE (LB/MIN)	Inlet	1.30	1.34	1.29	1.31
	Outlet	<4.75E-06	2.91E-06	2.23E-05	0.00001
DESTRUCTION EFFICIENCY (%)	99.9992				



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OTHER INFORMATION

Catalyst Oxidizer met the min. requirement >99.0 % DRE.  
40 CFR 63.362 requires testing with an empty sterilization chamber. It also requires sampling to start at 1st evacuation of sterilization chamber. Both conditions were met.

The outlet results for Run 1 were below the minimum detectable limit. The minimum detection limit was used to calculate the concentration and emission rate for Run 1.