



**Richard E. Dunn, Director**

**Air Protection Branch**

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**MEMORANDUM**

**TO:** Sean Taylor  
**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.

<b>COMPANY NAME</b>	Sterilization Services of Georgia				
<b>COMPANY ADDRESS</b>	Atlanta, GA				
<b>SOURCE TESTED</b>	Chemroxx Scrubber Outlet - Chamber 2				
<b>POLLUTANT DETERMINED</b>	Ethylene Oxide				
<b>REPORT REVIEWED BY</b>	Ray Shen				
<b>TEST WITNESSED BY</b>	Ray Shen				
<b>DATE(S) OF TEST</b>	March 22, 2022				
<b>DATE RECEIVED BY APB</b>	June 2, 2022				
<b>APPLICABLE REQUIREMENT</b>	Permit 3841-121-0010-S-03-0, Condition 2.4. 40 CFR 63.362				
<b>MAXIMUM EXPECTED OPERATING CAPACITY</b>	8 UNITS				
<b>OPERATING CAPACITY</b>	0 UNITS				
<b>ALLOWABLE EMISSION RATE(S)</b>	99.0 % DRE				
<b>CONTROL EQUIPMENT AND MONITORING DATA</b>	Liquid Glycol % (Before/After) = 42.8/42.8 See Appendix K of test report.				
<b>TEST RUN #</b>		<b>1</b>	<b>2</b>	<b>3</b>	<b>AVERAGE</b>
<b>GAS TEMPERATURE</b> (°F)	<b>INLET</b>				
	<b>OUTLET</b>	69.4	76.2	74.4	
<b>GAS MOISTURE (%)</b>	<b>INLET</b>				
	<b>OUTLET</b>	1.54	1.57	1.60	
<b>GAS FLOW RATE</b> (ACFM)	<b>INLET</b>				
	<b>OUTLET</b>	93	98	91	
<b>GAS FLOW RATE</b> (DSCFM)	<b>INLET</b>				
	<b>OUTLET</b>	90	93	87	
<b>POLLUTANT CONCENTRATION</b> (PPM)	<b>INLET</b>				0
	<b>OUTLET</b>	12.6	18.0	15.3	15.3
<b>EMISSION RATE</b> (LB/MIN)	<b>INLET</b>	2.20	2.36	2.26	2.27
	<b>OUTLET</b>	0.000129	0.000193	0.000152	0.000158
<b>DESTRUCTION EFFICIENCY (%)</b>	99.993				
<b>OTHER INFORMATION</b>	Chemroxx Wet Scrubber met the min. DRE requirement of >99.0 %. 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.  Inlet emission rate is based on the amount of EtO charged to the sterilization chamber.				

cc: Sean Taylor  
AIRS Number: 121-00010

Reference Number: 202200482  
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