



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.

COMPANY NAME	Sterilization Services of Georgia				
COMPANY ADDRESS	Atlanta, GA				
SOURCE TESTED	Chemroxx Scrubber Outlet - Chamber 1				
POLLUTANT DETERMINED	Ethylene Oxide				
REPORT REVIEWED BY	Ray Shen				
TEST WITNESSED BY	Ray Shen				
DATE(S) OF TEST	March 22, 2022				
DATE RECEIVED BY APB	June 2, 2022				
APPLICABLE REQUIREMENT	Permit 3841-121-0010-S-03-0, Condition 2.4. 40 CFR 63.362				
MAXIMUM EXPECTED OPERATING CAPACITY	13 UNITS				
OPERATING CAPACITY	0 UNITS				
ALLOWABLE EMISSION RATE(S)	99.0 % DRE				
CONTROL EQUIPMENT AND MONITORING DATA	Liquid Glycol % (Before/After) = 42.8/42.8 See Appendix K of test report.				
TEST RUN #		1	2	3	AVERAGE
GAS TEMPERATURE (°F)	INLET				
	OUTLET	62.6	81.2	80.2	
GAS MOISTURE (%)	INLET				
	OUTLET	1.47	1.53	1.54	
GAS FLOW RATE (ACFM)	INLET				
	OUTLET	55	53	47	
GAS FLOW RATE (DSCFM)	INLET				
	OUTLET	54	50	44	
POLLUTANT CONCENTRATION (PPM)	INLET				0
	OUTLET	3.25	1.44	0.660	1.78
EMISSION RATE (LB/MIN)	INLET	1.94	1.58	1.38	1.63
	OUTLET	0.0000202	0.00000828	0.00000335	0.0000106
DESTRUCTION EFFICIENCY (%)	99.9994				
OTHER INFORMATION	<p>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.</p> <p>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.</p>				

cc: Sean Taylor
AIRS Number: 121-00010

Reference Number: 202200481
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