



**Environmental
Chemistry &
Technology
Program**

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September 20, 2002

John Hayman
President
KES Science and Technology
3625 Kennesaw North Industrial Parkway
Kennesaw, GA 30144
(800) 627-4913

RE: Analysis of Effluent from AiroCide
(August 2002 Test Period)

Dear President Hayman,

Please find enclosed the results from two recently completed studies of the Bio-KES and the AiroCide:

Study #1 – Bio-KES Testing: A Bio-KES was tested with and without sleeves to determine the effect on performance. A complete discussion of these tests is found in **Enclosure #1**.

Study #2 – AiroCide Testing: Testing and subsequent analysis of the effluent from the AiroCide device (KES Science and Technology; Kennesaw, GA) (refer to **Enclosures 2 and 3**). The AiroCide is a technology for controlling airborne concentrations of microbiologicals. These tests were conducted in August of 2002, with analyses conducted in August and September. Below is a summary of the AiroCide effluent testing. **Several figures are found in the Appendix, which follow the tables.**

Executive Summary: The effluent from the AiroCide device was sampled and analyzed to determine gas species and concentrations. **Ozone was found to be below detectable levels** (Table 1) and the volatile organic compounds listed in Table 2 were found to be in the very low ppb (parts per billion range).

Sincerely,

Dean Tompkins, PhD, PE

cc: Johnny Hayman, File

Enclosures:

- 1) Technical Report – Performance Testing of Bio-KES with and without Sleeves
- 2) Gas Phase Analysis (AiroCide Device); dated August 23, 2002
- 3) Thermal Desorption Analysis; dated September 10, 2002