



## Environmental Devices Corporation

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Dear fellow scientists, researchers and air quality investigators,

The following report was conducted by the United States Environmental Protection Agency (US EPA) in Conakry, Guinea, West Africa. The use of the Hazdust Model EPAM-5000 Environmental Particulate Air Monitor in this study is “hi-lighted” in yellow to make it easier for the reader to identify where the EPAM-5000 air monitor was used and its associated benefits.

The report also includes competitive real-time particulate monitors (the TSI DustTrak model 8520 and Thermo Anderson DataRam model 1000AN), which were used in certain instances, but less than the Environmental Devices Corporation model EPAM-5000. These monitors were corrected and scaled to the EPAM-5000. This report is not a comparison of competitive manufacture’s real-time particulate monitors. It is an air quality study to conduct an assessment of needs to reduce and manage air-pollution. We recommend reading the full report. No equipment is endorsed or recommended by the US EPA.

We feel the report identifies some of the distinctive features of the EPAM-5000 that is beneficial to any air quality study. Such as:

- Interchangeable sampling inlets for PM-10, PM 2.5, and PM 1.0 micron size particulates
- “Dual capability” for collecting particulates in real-time and by gravimetric filter cassette.
- The ability to correct and self calibrate to EPA methods for establishing correlation.
- The ability to collect 24-hour samples unattended on a single battery charge.
- Easy to clean and maintain user friendly optical sensor design
- Easy, portable, and deployable weatherproof case design.

Of particular interest, is the air monitoring study at the Nongo Site and the Presidential Palace, beginning on page 11 and 46, respectively. These sections show the EPAM-5000’s ability to simultaneously collect 24-hour real-time particulate samples and gravimetric filter samples. The EPAM-5000 real time graphs were generated and scaled to show correlation with the MiniVol sampler. In addition, the EPAM-5000’s gravimetric filters were further analyzed for metals and specific cation/anion content (as shown in Table 5, page 23) which are indicators of the types of emission sources that contribute to measured ambient particulate levels.

I personally believe this reports educates and utilizes a few of the superior features the model EPAM-5000 real-time particulate air monitor has to offer. I believe that educating and explaining these advantages is the best way to attract and keep customers.

Sincerely,

Mark J. Sullivan  
Managing Director  
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