

EXTENDED ABSTRACT

Title: How pulsations and other issue affect the performance of a respirable sampling head and the importance of dampeners within an air sampling pump Author names Mr Tim Turney Affiliations: Casella

Objectives

To describe the way pulsation affects air sampling of the respirable fraction of dust. To show that with a properly damped pump pulsations are kept to a minimum. Other factors and cyclone validation are also described. **Methods** Not applicable. The article I have written references other academic research papers. **Results**

Conclusions and Recommendations

Descriptive Paragraph:

The presentation will summarise an article which describes varies factors affecting the outcome of respirable sampling. Many factors affect the respirable sample such as flow rate, pulsation and overall sampler performance against the EN481 respirable curve. The factor of sampler performance has been well documented in the press and occupational hygiene community; this has led to cyclone testing being required. The presentation will discuss the testing and performance requirements. Pump pulsation will be looked at in terms of past research how pulsation in the sample train can also affect the respirable sample.