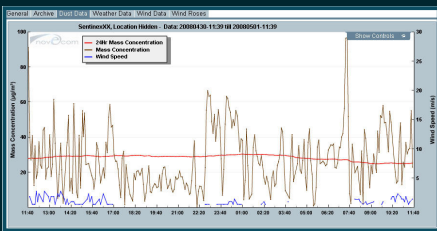


Dust Monitoring



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Case Study: Mt Owen Mine Dust Monitoring

Client: Thiess Pty Limited

Project Summary

Thiess Pty Limited operate Mt Owen Mine located within the Upper Hunter Valley between Singleton and Muswellbrook. The mine is surrounded by a number of sensitive receivers.

To comply with Environmental Protection Licence and Development Consent for the mine, a network of continuous dust and noise monitoring SentineX units are situated around and within the site. The data recorded by these units assists in decision making processes for activities carried out on the site, in particular, the management of blasting activities.

During blasting activities, the data from SentineX units is collected to identify if the current meteorological conditions are suitable for blasting to commence, and the change in dust levels following blasting is compared to the levels before blasting occurred.

Project Features

- Continuous dust level monitoring and alarming
- Access to continuous dust monitoring data
- Access to real time data via a dedicated web repository
- Access through LAN during fieldwork, or a web browser from the office
- A TEOM 1400 dust monitoring system and a local meteorological station
- In-field diagnostics using a solid-state computer
- Web communications using NextG

Project Benefits

Continuous dust monitoring allows Mt Owen Mine to clearly demonstrate compliance, while developing a detailed understanding of how their activities impact on the surrounding environment. The data collected by the SentineX units enables Thiess to be proactive rather than reactive in the management of dust generating activities; near real time data allows operations to be promptly altered as required during adverse meteorological conditions.

Testimonial

"The Sentinex system has been operating successfully at a number of our projects and has proved an invaluable tool in assisting the operations to meet their strict environmental commitments. To my knowledge no other system can provide the same flexibility. With simplified automated reports and near real-time access to the monitoring data, the Sentinex system allows operations to be more proactive in addressing environmental issues, making everyone's job easier." **Environment Manager, Thiess Mining NSW**