

# SILICA DUST

## What is your exposure?

### AM520 PERFORMANCE UPDATE

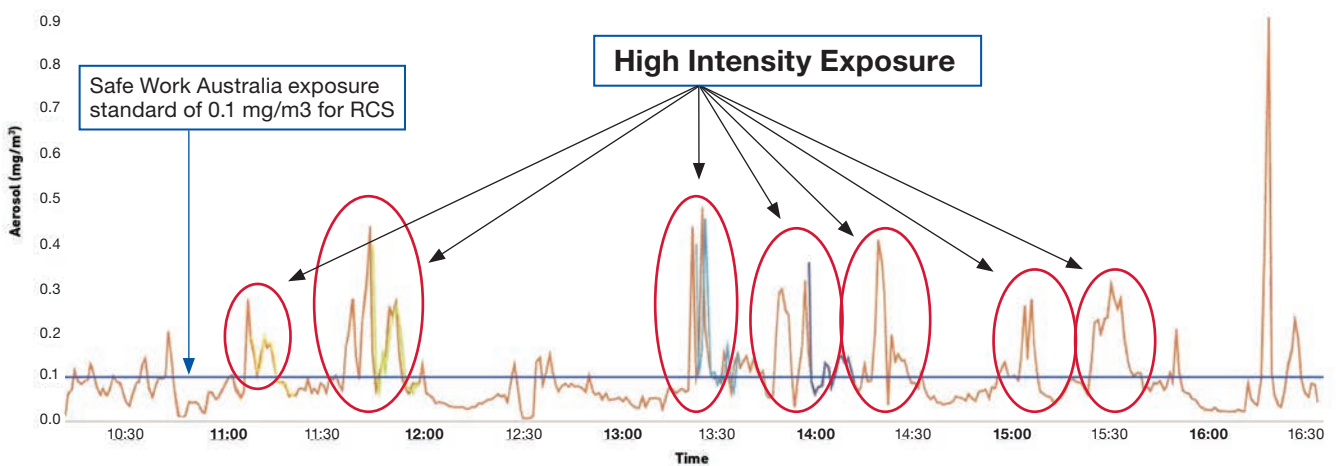
A stone benchtop company recently wanted to understand their exposure to carcinogenic Respirable Crystalline Silica (RCS) dust.

The TSI AM520 SidePak™ Personal Aerosol monitor was used to quickly and easily, measure dust concentration in real time.

The AM520 was attached to a worker for 6 hours, with a PM4 cyclone and logged every second. The results are shown below.



## DUST CONCENTRATION VS TIME



### TEST STATISTICS

Channel	Average	Minimum	Maximum	Cal Factor	TWA
Aerosol (mg/m³)	0.101	0 10/08/2018 02:28:05	24.1 10/08/2018 04:23:03	1 factory 06/01/2018	0.08

Although controls were in place, real time data obtained from the AM520 showed that employees were still exposed to more than the 0.1 mg/m<sup>3</sup> limit.

Of concern were bursts of high intensity exposure, up to 5 times the limit, which can potentially lead to acute/accelerated silicosis.

Armed with this vital information, the customer will now be able to further refine control measures to reduce silica exposure and further protect their workers and business, via a safer workplace.

## DID YOU KNOW?

More than 500,000 Australian workers were exposed to silica dust (in 2011), which can lead to the development of lung cancer, silicosis (an irreversible scarring and stiffening of the lungs), kidney disease and chronic obstructive pulmonary disease.



For more information, contact us or visit our website:

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