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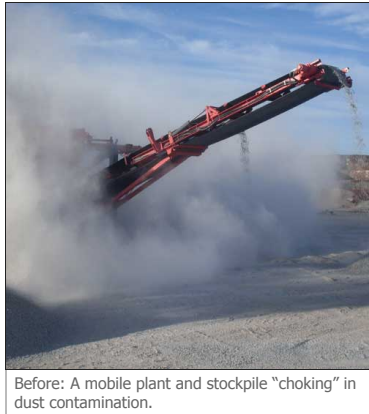
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Before: A mobile plant and stockpile "choking" in dust contamination.

ORANGE OIL, FOAM KEY AGENTS IN WAR AGAINST DUST

Posted October 31, 2012

A dust suppressing foam technology is just what the doctor ordered for reducing airborne dust emissions, improving worker health and safety.

Dust and issues caused by airborne dust emissions throughout the extractive process are a huge problem for staff and plant and equipment across the entire industry. They are a significant operational cost to businesses, increasing costs in personnel areas due to occupational health and safety issues and in plant and equipment maintenance.

Staff health should be a key priority for all businesses committed to reducing dust. Dust can be generated in many areas on a site and OHS meetings and teams should ensure that it is managed on a regular basis.

Asset protection for plant and equipment must also be considered in reviewing dust generation and minimisation on-site. Dust generation significantly increases in mobile plant, putting more pressure on staff health and safety and increasing the impact on surrounding neighbours and environment.

Both mobile and fixed plant across the site can be affected by dust generation, be it from production or haul roads. Filters are blocked, dust covers engines, haul road dust coats trucks, catastrophic failures occur and unscheduled maintenance creates costly, unplanned downtime.

In the current economic climate, unscheduled maintenance and parts are undesirable; the location of many sites can affect repair time, together with the costs of sourcing the required parts. A better option is to minimise downtime, and dust minimisation can assist that.

Companies like Polo Citrus can offer dust emissions solutions across the entire site. From a dust suppressing foam technology and a concentrated haul road wetting agent with natural orange oil to crusting acrylic polymers for stockpiles, Polo Citrus' product portfolio can target all dust generation issues.

The company, which has suppressed dust for the extractive industry for 20 years, really knows (and hates!) dust. The Polo BDS suppressing foam not only suppresses dust emissions from plant operations but reduces water consumption, leaving cleaner stone when processing aggregates.

Aside from its foam technology, Polo Citrus is experienced in all crushing and screening plants as well as haul

roads, stockpiles, train loading facilities, tunnel boring machines and recycling plants. In recent years, Polo Citrus has expressed keen interest in mobile plant crushing. It has been responsible for several unique plant-specific installations and solved many challenges to the customer's satisfaction.

The BDS concentrate solution is a compact, simple to operate system; it is perfect for fixed plant operations and suits mobile plant operators. The system is all mounted to a frame. The foaming unit sits on top of the system and is easily moved for clean-up purposes and site shifts for mobile users.

Polo Citrus technicians have a regular maintenance schedule, which ensures the system operates at peak performance. When the service is performed by the Polo Citrus technician, the foaming unit is always tuned to ensure the lowest amount of BDS concentrate is used.

For a low start-up cost, Polo Citrus will supply a turnkey foaming unit to a plant to minimise dust generation and water usage throughout the production process. Add benefits such as reducing filter changes, costs, unscheduled maintenance and engine rebuilds, together with reducing airborne dust that staff must work around and inhale, and a foaming unit is an extremely cost-effective option that will have many benefits, in the short term and the long term.



After: Following the installation of Polo Citrus' solution, the same plant and stockpile are "dust free".

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