

Application:

Lagoon Water Filtration For Quarries

Background:

Due to the nature of work carried out on quarries, many sites require a robust dust suppression system to ensure that the air is not polluted & a safe working environment is provided. To enable this, water is taken from an on-site lagoon & distributed through very fine spray nozzles which create moisture in the air, in turn settling the dust on the ground. this lagoon is also used as a part of the UV filtration system which relies on costly disposable cartridge filters to keep process water free of particles which can greatly reduce the efficiency of UV systems.

**The Bollfilter Solution**

The aquaBoll automatic filter serves as an ideal solution in this application by effectively treating raw lagoon water to protect sensitive downstream equipment. This raw water source is laden with suspended solids such as algae, silt, and organic debris, which would otherwise clog the fine orifices of spray nozzles, leading to blockages, uneven spray patterns, or complete failure. Likewise, these solids would critically compromise the UV disinfection system by shadowing microorganisms from the sterilizing light, rendering the treatment ineffective.



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The Bollfilter Solution

The aquaBoll automatic filter addresses these issues by capturing potentially harmful solids & using its automatic self-cleaning function; it monitors differential pressure changes and triggers a backflush cycle that uses a small amount of forward flow to dislodge and eject the collected debris and effectively clean itself. This robust, automated filtration ensures a continuous and reliable supply of clean water, protecting the nozzles and UV system, maximizing their efficiency, all while eliminating the significant maintenance costs and downtime associated with manual filter cleaning.



Dust suppression system in action

Benefits For the Customer

Process water quality has improved substantially due to the performance of the BOLLFILTER, which has greatly reduced unplanned system downtime and minimised the risk of failure of the dust suppression system.

With the addition of the BOLLFILTER, the site have also been able to significantly reduce their spend on disposable cartridge filters, as these units are now protected by the BOLLFILTER aquaBoll.



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