

Experts in Mine Acid and Water Pollution Solutions

Lime Doser Consulting LLC

What is a Lime Doser?

The Doser is housed in a quarter inch rolled steel silo which is available in different sizes to fit the needs of each individual project. The unit utilizes a green approach which includes a hydro-power treatment system combined with a the capability to discharge a multitude of reagents. Thus, giving the EZ-9A the capability to control both Flow and Reagent rates at a turn of a ball valve or T-bolt, in minutes.

Our unit, from its easily adjusted delivery gates and adjustable flow rates, to its capability to operate on 18" of head water at both low and high flow rates, and the capacity of discharging in excess of 150 lbs. of reagent an hour, have made Lime Doser Consultants one of the leading choices for Watersheds and State agencies.

What does a Lime Doser Look Like?



In the Field



In the Field



In the Field



In the Field



In the Field



In the Field



In the Field



What have we done so far?

Some of our success story can be seen here in Pennsylvania and to our south in Maryland and West Virginia and to the West in Ohio. At Dents Run in Elk County, Pa and Lucernne 3A in Indiana County, Pa Pic of both sites

Maryland has been using the old V-90 for at least 15 years and most recently has begun a program with us to replace all of the old V's with the new EZ-9A.

With the most recent install of a 9A at their Buffalo 422 and their replacement, this spring, of McDonald Mines old V-90 with our updated version and Lost Land site, to be replaced in the near future, will mark its 3rd generation of the tipping bucket.

Marylands Cherry Creek site at Deep Creek Maryland has been running for 5 years and has been another success story for our product.

Limestone Overview

Limestone has been used for decades to raise pH and precipitate metals in AMD. It has the lowest material cost and is the safest and easiest to handle of the AMD chemicals. In cases where pH is low and mineral acidity is also relatively low (low metal concentrations), finely-ground limestone may be dumped in streams directly.

The limestone may also be ground by water-powered rotating drums and metered into the stream. These applications have been tried recently in West Virginia in AMD-impacted streams with great success. Limestone has also been used to treat AMD in anaerobic (anoxic limestone drains) and aerobic environments (open limestone channels). These latter two techniques are especially useful in situations where specific discharge limits do not have to be met.

Faulkner, B.B. 1996. Acid mine drainage treatment recommendations. West Virginia Mining and Reclamation Association, Charleston, WV.

In Conclusion

Please feel free to contact us with any questions you may have.

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