



Providing Treatment Solutions for Air, Water, & Land

www.TheiaLLC.com

(888)330-2260

EZ Sludge System

Sludge Dewatering Made Simple



Dealing with the solids generated during water or wastewater treatment processes is often the most expensive and difficult part of the process. Removing high volume low percentage solids liquids can be very expensive as well as intrusive with a steady stream of vacuum trucks coming in and out of the facility. Dewatering these solids usually involves an expensive and complicated system utilizing filter presses or centrifuges. These batch operations are also very operator and maintenance intensive.

Theia is simplifying the process. Our water treatment systems all offer a simple, inexpensive and maintenance free solids dewatering process that can be fully automated or operate at the push of a button.



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The Low Cost, High Volume Dewatering Solution

There are no belts, gears, or complicated mechanics. The EZ Sludge System starts with filter bags that are constructed of high-strength, permeable, specially engineered textiles designed for containment and dewatering of high moisture content sludge and sediment. The bags themselves are available in virtually any size and can be customized for the application. These unique filter bags get placed inside one of our dewatering boxes which contain the filter and provide protection against leaks or ruptures in the bags. Additionally these dewatering boxes automatically recapture the water and send it back to the system so that very little water is lost.

Volume reduction can be as much as 40-50%, with high solid levels that make removal and disposal easy. Our dewatering technology also allows for profitable recovery of valuable solids.

Theia Water's dewatering technology is the low cost, high volume dewatering solution. The dewatering process is simple and effective. The pumping process is repeated until the tube is full. Eventually, the solids can be handled as dry material, increasing options for transportation and disposal.



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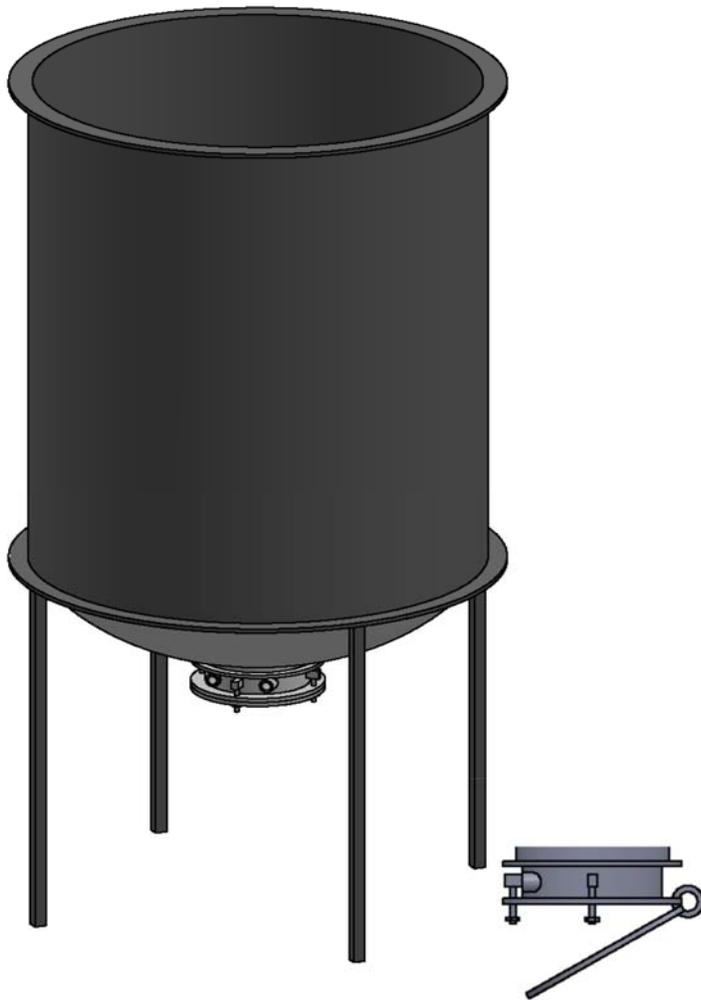
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The Vertical EZ Sludge Unit

The Next Generation is Here

Theia has been working with the engineers behind the Geotube technology and have developed the next generation of EZ sludge systems. This design utilizes the same tried and true dewatering technology as our other EZ sludge system but is designed to accommodate more regular and higher volume sludge handling requirements.



The system offers enhanced dewatering compared to our other designs and offers the ability to dump the dewatered sludge into a rolloff box or to a conveyer/auger. Like its cousins, it is easy to operate, requires virtually no maintenance or regular attention and has a very low capital cost. Options include backwashable filter for multiple uses, and Air and Vacuum drying enhancements.

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Treating sludge from Acid Mine Drainage at a DEP site in Northern PA.



Early Vertical Design at work

Sludge from an Industrial Treatment Plant

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