

Did you know that we use a RWI PittBoss Evaporator to help manage leachate at the Twin Oaks Landfill?

“So with evaporation, the benefits of doing that is it’s a much more natural way to get rid of water while leaving contaminants behind. Some other options people use are trucking the water off to a disposal facility off-site, which can be very costly. You also have the concern of the water going down the road rather than staying on location. Another option is chemically treating the water. At that point, you’re dealing with chemicals as well and adding them to the water. Our product using evaporation is a much more natural way to get rid of the water.”

Here’s how it works...

“We pull in dry air from about 8 feet above the surface of the pond, force it down onto the pond and sweep the boundary layer, pushing humidity away from the pond is what we do. The second phase is that it forms waves. All natural evaporation happens at the surface. When we create waves, we increase the surface area of the pond to be exposed to the solar energy, warm up, and evaporate quicker. The third phase is creating droplets. Just like when a wave crashes in the ocean, droplets kick up, travel only about 20-25 feet out on each side, and those droplets are more surface area to be exposed to the environment.”

More surface area means more evaporation.

The evaporation process can be beneficial for other industries as well.

“We help clients anywhere from landfills to wineries to oil and gas and mining. We solve the problem of removing water that cannot be reused. We can evaporate it off, putting the water back in the hydrological cycle. We do it in a safe way where all of the water contaminants will stay in the water droplet and travel back into the pond.”