



# CLLEEN™ Water and Power™

## CLLEEN™ MOBILE VAP™

- Produced Water
- Landfill Leachate
- Sewage
- Other Wastewater Treatment Units





# CLLEEN™ MOBILE VAP LE solves your low-TDS wastewater disposal problem.

The CLLREEN™ MOBILE VAP LE Crystallizer (evaporator) is:

- Trailer-mounted
- Built in modules of 25 GPM each
- Can treat any flowrate at the TDS levels of the leachate
- Will do so using less than 2.5 kWh/m<sup>3</sup>
- Is 1/30th the energy usage of any comparable industrial evaporator

CLLEEN™ MOBILE VAP LE is similar to the treatment used by existing CLLREEN™ MOBILE VAP customers in the oil and gas exploration and production fields.

- It evaporates produced waters of hydraulic fracturing operations
- Works well for landfill leachate
- Is effective for other lower TDS wastewaters





## What the Customer provides

1. Pumping (with an 18-mesh screen or higher to limit TSS diameters to under 1mm) from the leachate source to our skid-mounted brine pump on the CLLEEN™MOBILE VAP LE unit.
2. Secondary containment to capture the dry salts from the evaporation chamber discharge.
3. 90A@240V/1ph power for every 25 gallons per minute chamber





## How Do I Get One?

- Deposit of \$250,000 USD per 25-gpm chamber.
- Units are trailerized, to a maximum of 4 x 25 gpm chambers on an enclosed 30-ft gooseneck trailer.
- Towed by a pickup truck; or delivered on a self-contained metal skid to your specifications.
- Deposit is refunded after 8 months of operation, OR applied to the manufacture and delivery of your next order.
- US\$3/barrel of water treated (in most locations in the US and Canada)
- Includes full warranty
- Includes 24/7 monitoring via our SCADA software and cellular signal.
- 45-day lead time for manufacture, delivery, installation and training at your site.





A CLLEEN™MOBILE VAP LE 27-foot trailer evaporates 100 gallons per minute of leachate down to dry salts for safe, economical and environmentally friendly re-wasting on the landfill.



# Management Bio

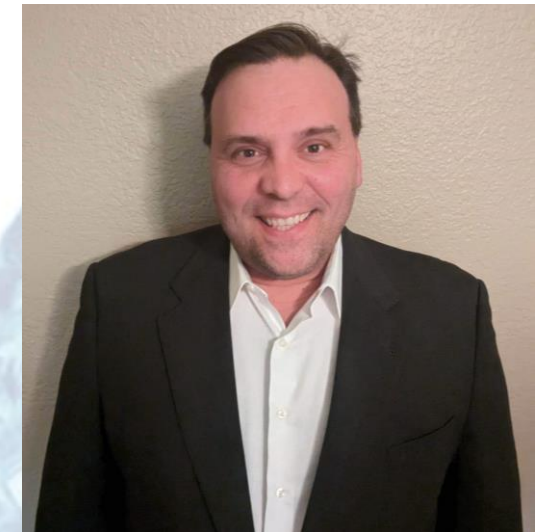
**Anthony Migyanka, Founder, CEO  
and Inventor of the CLLEEN™VAP technology.**

## Published Technical Papers:

- “What to do with the Brine?” Frac Water Treatment, Knovel Publishing, March 2012
- Featured article, “Chemical Engineering” Magazine, on the CLLEEN™ system, April 2012

## Speaking Invitations:

- Shale Gas Water Management Initiative, Dallas, Texas, November 2011
- OZWater’12 Water Conference, Sydney Australia, May 2012
- International Water Technology Conference (IWTC), Istanbul, Turkey, May 2012
- Engineering Account Manager, Betz-Dearborn (Now Suez), oversaw water treatment for Brooklyn Navy Yard Cogen Startup, JFK Airport Cogen startup, Stonybrook University Cogen Startup, certified pesticide applicator and Betz NY, NJ, CT, EPA liaison





# Who to contact CLLEEN™ Water and Power



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