



Expert solutions for managing industrial liquid materials and products.



The premier source for handling all your industrial liquids

What happens to the liquid by-products your company generates? What steps are you taking to recover value from them? Are they disposed of in compliance with all federal, state and local regulations? How are you minimizing risk to your operations, the public and the environment?

Today, businesses like yours are being asked to do more with less. As North America's leading provider of environmental services, Waste Management is organized to help you excel in minimizing waste and maximizing value.

Our Sustainability experts can lead you to environmentally and economically responsible solutions. Our capabilities include biological treatment, deep well injection, solidification, LiquiFix® and temporary storage.

Let us apply our knowledge, experience and nationwide resources to your challenges, to help you address your needs safely and to resourcefully manage the secure transportation, storage or treatment of your liquid by-products, surplus or off-spec materials, or waste materials.

We're adept at finding alternative uses and management processes for industrial liquids. Give us a call and let's discuss how we can help your business recover value from these materials.



Food and Beverage Destruction

At Waste Management, we offer a variety of economical treatment technologies to manage and dispose of your unmarketable or unsellable food and beverage products, by-products, and off-spec liquid inventory. Rely on us for the experience, equipment, reverse logistics and infrastructure to handle any volume of bulk or packaged liquids.

We will develop a customized solution to help optimize product security, minimize waste volume, reduce disposal costs, and maximize opportunities for sustainability. This solution will include:

- A single point of contact
- Collection and logistics
- De-casing, segregation and sorting of containers
- Assured product destruction
- Product reuse, recycling, or alternative use
- Packaging recycling (aluminum, PET, glass, shrink wrap, etc.)
- Customized tracking and reporting
- Certificates of Destruction
- Web-based, real-time tracking of shipment dispositions

Deep Well Injection

For companies that generate hazardous or non-hazardous aqueous by-products, Waste Management offers permanent disposal through deep well injection at our Vickery Environmental facility in Vickery, Ohio. This solution is cost-effective, environmentally responsible, and fully compliant with all local, state and federal USEPA regulations.

Our Vickery facility uses the latest in liquid storage, pumping and monitoring technology to ensure its long-term safety and integrity. The liquids are first analyzed, then stored in large aboveground tanks, then treated and filtered. Next, they are transferred to one of four fully permitted Class I injection wells, each of which is constructed of solid fiberglass tubing surrounded by four to six encasement layers of steel and concrete.

The treated wastes are injected approximately three thousand feet below ground level into porous rock that is between layers of impermeable rock. The wastes are safely held there indefinitely, isolated from people, animals, plants and drinking water resources.

Our treatment technologies include anaerobic digestion, for converting liquids to ethanol, methane, and/or fertilizer. Ask us about the other methods we can employ for your specific liquid streams or consumer products.

DEEP WELL INJECTION IS A SUITABLE DISPOSAL SOLUTION FOR:

- Acid wastewaters
- Ammonia and other caustic wastewaters
- Aqueous solutions of pharmaceuticals and pesticides
- Brines and salt solutions
- Chemical manufacturing wastewaters
- Leachate
- Metal plating and galvanizing solutions
- Waste pickle liquor (acids)



Liquid Waste Storage Tanks

To support our liquid management programs, Waste Management offers a wide range of portable storage tanks, each featuring current structural and safety technology and superlative maintenance and service.

- Capacities range from 8,400 gallons (200 barrels) to approximately 21,000 gallons (500 barrels).
- Tanks come in both roll-off and intermodal designs.
- All tanks feature contoured, full-drain, conical bottoms with smooth walls and no internal bracing, for easy, low-cost maintenance and cleaning.
- Tanks feature both front and rear feed lines, allowing them to be plumbed together to form an extensive storage system.
- All tanks are OSHA approved.

Solidification

Waste Management's solidification and LiquiFix® services provide safe and effective treatment solutions for managing liquid wastes. Our treatment process involves developing liquid-specific mix ratios in tandem, liquid with suitable reagents and/or absorbents. The result is a secure, solid-state material that can be safely managed in a Subtitle C or Subtitle D landfill.

Rendering liquids to a secure solid physical state can help reduce your long-term contingent liability. LiquiFix is available at many Waste Management landfills and is compliant with all local, state and federal regulations.

For more information about the liquid treatment solutions available in your area, contact your Waste Management Manufacturing & Industrial sales representative at 1 800 963 4776 or visit wmsolutions.com.

RELY ON OUR LIQUID STORAGE TANKS FOR:

- Environmental and bioremediation activities
- Excavation and SWPP storage needs
- Industrial, maintenance, and turnaround activities
- Interim storage solutions for refineries
- Oil field operations
- Sludge tanks and dewatering services
- Temporary or long-term storage needs

SOLIDIFICATION APPLICATION EXAMPLES

- Brine waste
- Car wash cleanout
- Catch basin grit
- Grease trap waste
- Ink, paint and pigment sludges
- Pond cleanouts
- Refinery sludges
- Tank cleanouts
- Wastewater treatment sludges