



Chemical Waste Management Emelle



Chemical Waste Management (CWM) Emelle provides area businesses, industries, and the public with professional, safe, and efficient hazardous waste transportation, treatment and disposal services.

The Emelle facility cost-effectively serves the business triangle from the Midwest states to the eastern seaboard to the Gulf coast area. In operation since 1978, this award winning, environmentally safe hazardous waste facility boasts a stellar safety record and an unmatched technical service team with more than 16 years experience per representative. CWM Emelle adheres to strict regulations administered and overseen by the Environmental Protection Agency (EPA) Region IV and the Alabama Department of Environmental Management (ADEM). This facility is a Certified Wildlife Habitat by the Natural Wildlife Habitat Council and is positioned on a 2,700-acre site (with 650 acres permitted for disposal operations).

Literally, one of the most secure treatment and disposal facilities in the world, this remote operation is built on more than 600 feet of impermeable "Selma Chalk" limestone. Disposal cells, constructed under very strict EPA and state guidelines, are constructed into the Selma Chalk with double layers of 60 mil High Density Poly Ethylene (HDPE). Additional security measures include a complex leak detection system and sophisticated leachate collection system containing 81 monitoring wells and 6 RCRA wells, with 8 sediment basins to prevent run off.

TREATMENT AND SERVICE OPTIONS

- Asbestos disposal
- Drum collection, treatment and transshipment
- Fuels Blending
- Drum and bulk liquid/solids transportation
- Macroencapsulation
- Mercury long-term storage
- Microencapsulation
- RCRA landfill disposal
- Rail transportation
- Stabilization
- Solidification
- Storage and transfer for recycling and thermal treatment



Waste Management's Industrial and Hazardous Waste Services include:

Direct Landfill

The CWM Emelle facility is ideally suited for the direct landfill of RCRA and TSCA wastes that naturally meet treatment standards. CWM Emelle routinely handles large volume soil projects delivered by truck or rail. The personnel at CWM Emelle are available to assist you with transportation design and scheduling to ensure that your soil or remediation projects have streamlined access and quick turnaround times.

Microencapsulation

Microencapsulation involves coating hazardous inorganic debris with a custom-tailored mixture of proprietary agents that significantly reduces the debris from leaching hazardous constituents into the surrounding landfill environment. It is the preferred treatment method for debris that can be fully coated on all surfaces – both exterior and interior. Most hazardous debris qualifies for this treatment process. Common examples include refractory brick, rocks and concrete.

Macroencapsulation

Macroencapsulation entails placing hazardous debris into a WM-patented, one-piece containment unit made from high-strength HDPE specially designed as a hazardous waste debris management container to ensure non-leachability of the waste stream. HAZWOPER trained personnel fill any remaining void space with sand and then weld the container closed. The secure container is then transferred to an appropriate cell within the footprint of the RCRA Subtitle C landfill for safe, permanent disposal. Macroencapsulation is appropriate for virtually any hazardous debris that fits in a 20-cubic-yard roll-off box. Common examples include concrete, piping, filters, rags, hoses, crushed containers and motors.

Stabilization

Hazardous waste requiring stabilization is treated using cement and/or cement byproducts, along with other reagents to reduce the hazardous metals leachability. Process recipes are developed for each waste stream and post treatment analysis (TCLP) is performed to confirm that the recipe will treat the waste stream to levels below Land Disposal Restriction (LDR) standards. The Stabilization operation is housed in a secondary containment building comprised of two 90 cubic yard treatment vats. Each vat has a dust collection system, which minimizes hazardous air pollutants from exiting the process.

PCB Disposal

Polychlorinated biphenyls (PCBs) are chemical compounds once widely used in a variety of manufactured products including paints, adhesives, machinery lubricants and heat transfer fluids. Our Emelle facility is able to provide the infrastructure, equipment and technical expertise to transport, treat and/or dispose of manufactured materials, soil, sediment and debris contaminated with PCBs in a manner that is both cost-effective and in compliance with all local, state and federal environmental regulations. CWM Emelle offers all disposal options for PCB fluid and PCB articles. Transformers can be decommissioned and landfilled or recycled. Transformer fluid and flush material is transshipped to an approved incinerator for destruction. PCB capacitors (depending on size) can be landfilled or transshipped to an approved incinerator for destruction, and PCB contaminated equipment and debris is landfilled.



Drum Management Services

CWM Emelle offers safe, reliable and cost-effective drum management services for LTL (Less-Than-Truckload) and full truckload quantities. An expert in special and industrial waste, as well as hazardous waste handling and disposal, we will collect, transport and arrange for the proper treatment and/or disposal of drums or palletized containers while maintaining compliance with all federal, state, local, DOT and EPA regulations. CWM Emelle serves as a regional disposal and transfer facility managing liquid and solids drums. Upon receipt, drums are sampled, analyzed, segregated or consolidated, treated or transhipped for management with the most appropriate technology allowed by law.

Mercury Storage

Operated by WM Mercury Waste, Inc., a wholly-owned subsidiary of Waste Management, and approved by the Department of Energy (DOE), CWM Emelle offers long-term mercury storage at this facility. Emelle is one of only a few facilities in the United States that is sanctioned by USEPA and DOE to provide long-term mercury storage. Extensive operational control technologies and safety procedures ensure secure mercury storage in strict compliance with EPA, OSHA, and State agency operating guidelines.

Transportation Specialists

Whatever the quantity or the size of your shipment, our transportation specialists are on hand and ready to assist you with the secure transport of your RCRA, TSCA or non-hazardous waste shipments. The real value of our transportation capabilities lies with the regulatory knowledge and experience of our personnel. For the past thirty years, we have moved all types of sensitive cargo whether it's a single drum of corrosive materials, flatbeds of electrical transformers or loading and unloading gondola rail cars with regulated materials. Emelle's standard of care includes logistics and transportation design and providing pre-populated manifests and/or drum labels. We will work around your schedule to coordinate and implement an economical solution to your transportation challenges.

Customer Service

Excellence in customer service is defined by our ability to find the best solution even if the solution is not immediately available. When you don't have the answer or you're uncertain how regulations apply, we're there to help you find the answers:

- Is it more cost effective to ship your material by drum, rail or bulk?
- How do the treatment codes apply this waste type?
- Can you get your material approved and processed for shipment this week?
- What would you recommend for testing parameters?

If you have questions or challenges, we're here to help you find the solutions so that you can focus on your facility, your manufacturing activities or your remediation and land redevelopment projects. Our experienced Technical Service Representatives and Waste Approval teams are up to the challenge.



Commonly Accepted Waste Types

- Asbestos
- Auto shredder residue
- Contaminated soils - hazardous (RCRA), non-hazardous and PCB (TSCA)
- CERCLA wastes
- Debris for treatment or disposal (including empty tanks and vessels)
- Drummed wastes (liquid and solids)
- E&P Wastes
- Industrial & Special Wastes
- Lab packs
- NORM wastes*
- Off-spec or out of date chemicals
- Palletized waste
- PCB's including capacitors and transformer
- Contaminated debris and equipment
- Plating wastes
- Refinery wastes

Emelle can accept all RCRA waste codes.

*NORM Waste is accepted on a case-by-case basis

YEAR OPENED

1978

PROJECTED LIFE REMAINING

100+ years

FACILITY ACREAGE

2,700 acres

PERMITTED FOOTPRINT

650 acres

REMAINING PERMITTED CAPACITY

2 million yd³ in trench 22

OWNERSHIP

Waste Management

PERMIT TYPE & PERMIT

RCRA and TSCA EPA ID Permit
ALD000622464

REGULATORY AGENCIES

EPA Region IV and the Alabama
Department of Environmental
Management (ADEM)



CONTACT CWM EMELLE

Technical Support

Technical Service Center Alabama

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COMMUNITY RELATIONS

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HOURS OF OPERATION

7:30am–3:30pm CST

Monday–Friday

Closed Saturday and Sunday

Special hours available upon request

Questions about industrial and hazardous waste services?

Contact a Waste Management representative:



Call 800 963 4776



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Send an email to TSCAlabama@wm.com

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