

SOCMA

Texas Molecular
Showcase

February 19,, 2024





— TEXAS MOLECULAR SHOWCASE **UPDATE**

- Texas Molecular Special or Unique Capabilities
- PFAS Business Growth
- PFAS Low Risk Solution
- VLS Complements Texas Molecular on a Major Project.
- VLS Capabilities and Services
- Contact Us to Access our Capacities and Service

TEXAS MOLECULAR SHOWCASE

SPECIAL OR UNIQUE CAPABILITIES AND SERVICE

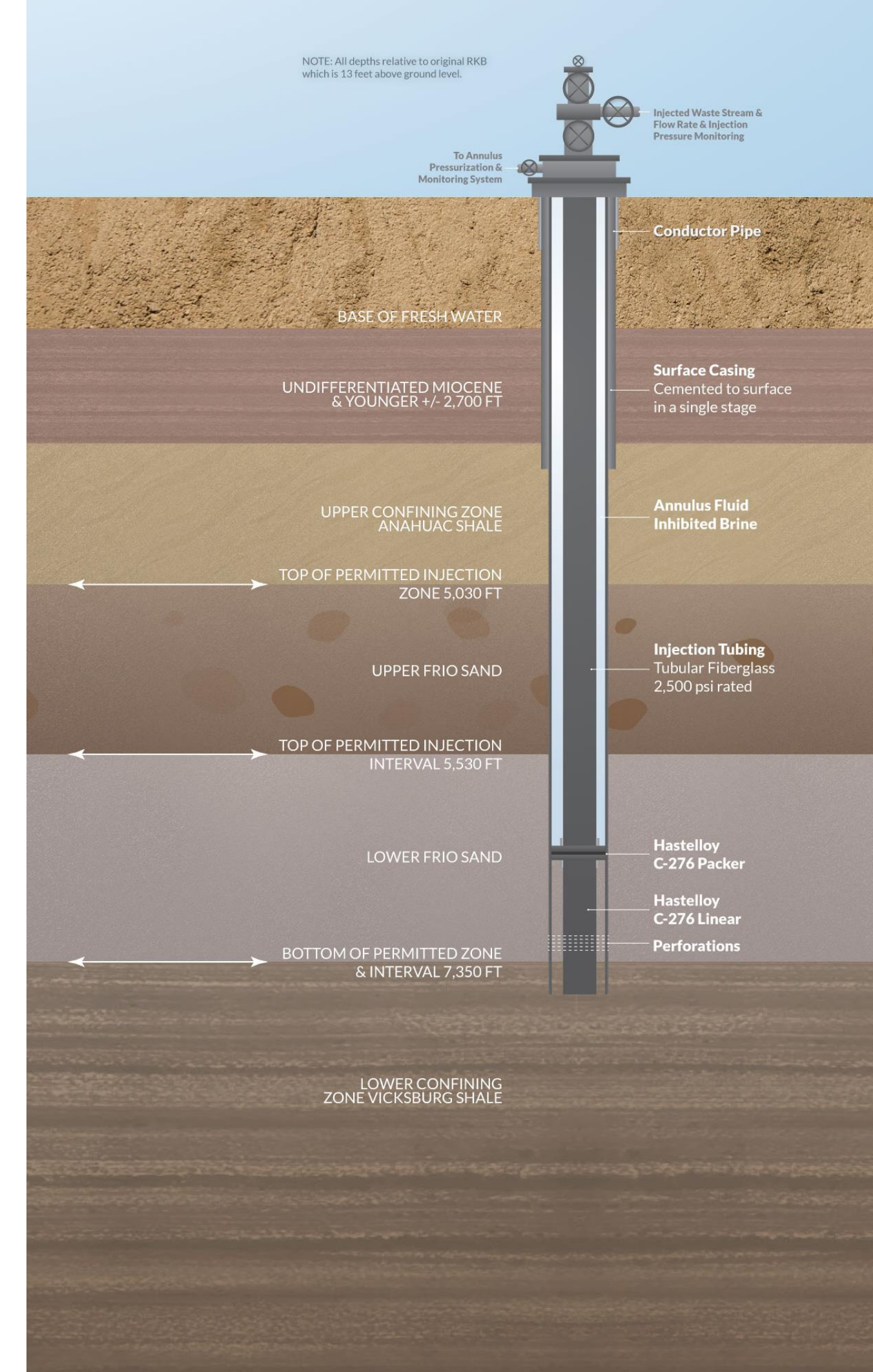


- 24/7/365 Receiving and Customer Service
- Inject over 100,000,000 gallons annually
- **Another 80 to 100 million gallons of available annual capacity**
- Conservation vents, thermal oxidizer, and back-up flare
- Ability to easily manage large volume projects of 30 loads per day or more in addition to our regular business
- Subpart CC compliant tanks and containment building
- **Accept and inject flammables including D001 High TOC Subcategory, D003 reactive sulfides and cyanides, and pesticides.**
- Manage waters subject to air subparts and NESHAPs: CC (VOC), FF (Benzene), XX (Ethylene Operations), B (Synthetic Organic Chemicals), and GGG (Pharmaceuticals)
- **Serve many chemical companies on a “utility” basis.**
- Emulsion treatment system.
- Batch treatment system
- Emerging constituents of concern like PFAS
- Sulfide treatment system
- Formaldehyde water system
- Most waters we receive are injected within 24 to 48 hours of receipt depending on how many loads we receive each day.
- **New capabilities are in development**

TEXAS MOLECULAR SHOWCASE

PFAS BUSINESS GROWTH

- About 140 million gallons of PFAS liquids safely sequestered in our hazardous waste injection wells in the last 6 years.
- PFAS and AFFF received from chemical industry, (including PFAS and AFFF production facilities), refineries, terminals, pipelines, airlines, airports, and a major rail incident.
- PFAS wastewaters, firefighting water, AFFF change outs, reverse osmosis reject, pure AFFF, AFFF debris.
- AFFF change outs to Fluorine Free Foams (F3) are being mandated.
- **RESULT:** Texas Molecular is the leader in off-site management of PFAS liquids.



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PFAS LOW RISK SOLUTION

- EPA Guidance Document on commercial disposal lists hazardous waste injection as the technology with the “lowest uncertainty.”
- Meet future requirements today (TRI, CERCLA, Hazardous Waste, etc.)
- Stringent requirements of EPA No Migration Petition for hazardous waste sequestration by underground injection.
- ZERO discharges of regulated PFAS, PFAS precursors, and yet to be regulated PFAS.
- Treat all waste as if hazardous waste from the manifest to receiving to filtration to disposal of residues.
- AFFF in totes and drums processed for injection at customer request.
- **RESULT.** Clients who place a high value on low-risk solutions ship to us from well over 1000 miles away on a regular or project basis.



TEXAS MOLECULAR SHOWCASE

VLS COMPLEMENTS TEXAS MOLECULAR ON A MAJOR PROJECT



The Project

- Major Rail Incident
- Involved fire water and water contaminated with hazardous waste
- Volume of water was in the 10s of millions of gallons

Need for Rail Solution

- Large volumes of water needed to be removed promptly and on a regular basis.
- Railcars would relieve and supplement the very large amounts of trucks being used.
- Client had access to a large quantity of railcars

VLS Rail Capabilities

- VLS is a very large rail car cleaning and repair company with locations in the East Coast and Gulf Coast
- 2 VLS locations in Texas provided transloading service. One other non-VLS site was also used.
- Transloading service was put in place

Results

- We transloaded over 500 railcar shipments in one year. VLS transloading was essential for our success.
- VLS in GA is being used to clean cars coming off lease.
- A satisfied customer on a very high-profile project.

WASTE-TO-ENERGY AND ENGINEERED FUEL SOLUTIONS



Waste-to-Energy

Our services include an innovative approach to converting EPA non-hazardous waste into fuel used as a coal substitute in cement kilns and gasifiers..



Alternative Engineered Fuel

We process secondary materials into an engineered fuel to manufacture an Alternative Engineered Fuel called Shredded Heat™.



Solidification and Landfill

We are able to stabilize and solidify non-hazardous material in container or bulk to reduce the potential harm of these elements reaching landfills.



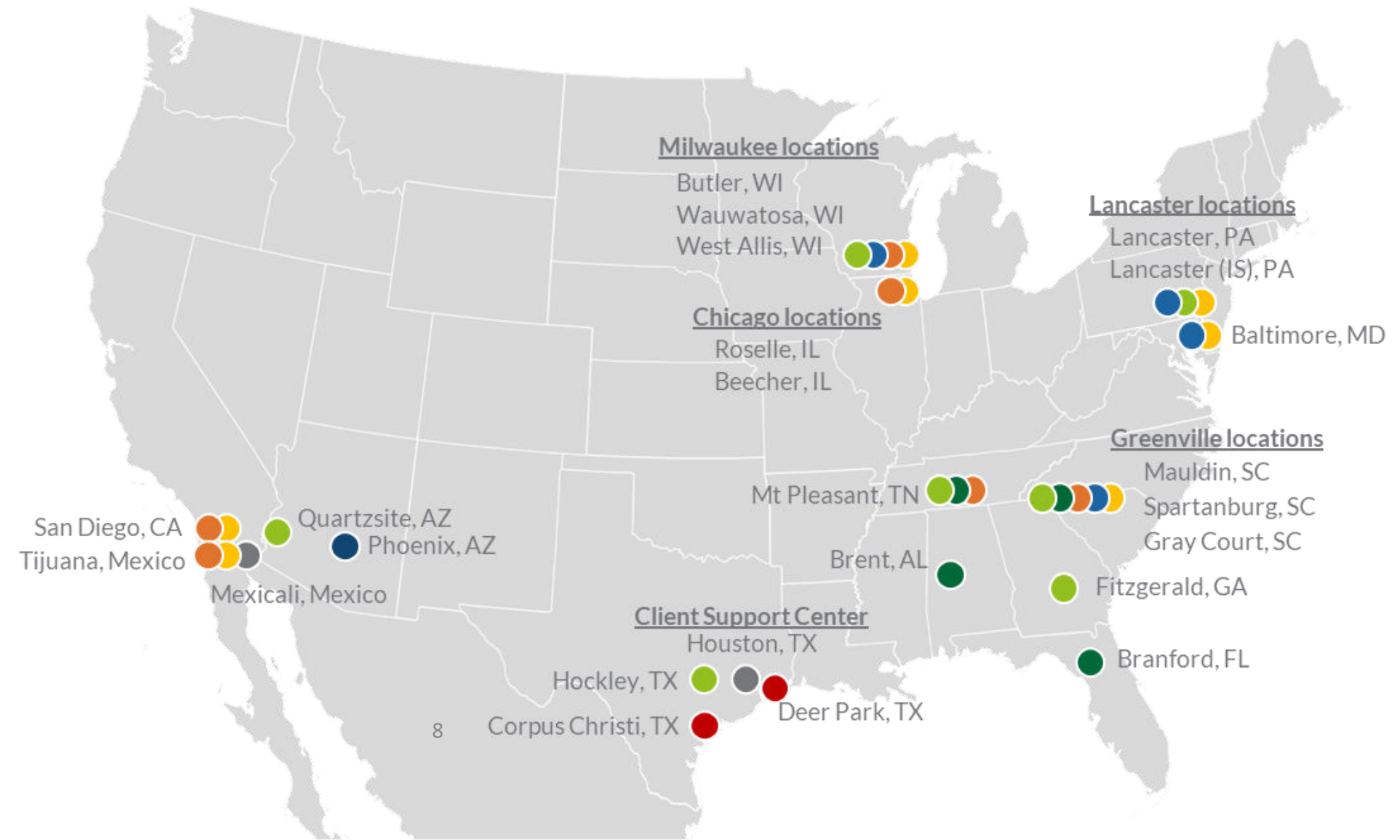
Marine Services

Railcar Repair and Maintenance Services

about our WASTE DIVISION

VLS was founded in 2007 with Mauldin, SC, as our first non-hazardous waste processing location. The facility was built with foundational tenets of broad acceptance of non-hazardous waste, comprehensive disposal options, and a fast-profiling process.

These beliefs have been the cornerstone of national, high growth business that focuses on providing sustainable solutions to meet client's goals.



- **Non-Hazardous Waste Processing**
 Mauldin, SC
 Spartanburg, SC
 Mt Pleasant, TN
 Hockley, TX
 Lancaster, PA
 Quartzsite, AZ
 Fitzgerald, GA
- **Engineered Fuel Manufacturing**
 Gray Court, SC
 Mt Pleasant, TN (bulking only)
 Brent, AL
 Branford, FL
- **Offices**
 Houston, TX
 Mexicali, Mexico
- **Wastewater Treatment**
 Mauldin, SC
 Lancaster, PA
 Baltimore, MD
 Butler, WI
 West Allis, WI
- **Industrial Services**
 Spartanburg, SC
 Lancaster, PA
 Baltimore, MD
 Wauwatosa, WI
 San Diego, CA
 Port Arthur, TX
 Tijuana, Mexico
 Roselle, IL
- **10-day Transfer Hub**
 Spartanburg, SC
 San Diego, CA
 Butler, WI
 West Allis, WI
 *Tijuana, Mexico (equivalent to RCRA Part B)
- **Waste Sequestration**
 Deer Park, TX
 Corpus Christi, TX
- **Pond Evaporation**
 Maricopa, AZ

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TEXAS MOLECULAR SHOWCASE
CONTACT US AT BOOTH 411

Customer Service and Scheduling Line

281-930-2540

customerservice@vlse.com

www.texasmolecular.com or www.vlse.com

Frank Marine

Business Development - PFAS

281-222-6641 (cell)

frank.marine@vlse.com

Jimmy Bracher

VP Sales – Waste Division

713-264-2833

Jimmy.bracher@vlse.com



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WASTE MANAGEMENT. RAILCAR CLEANING. MARINE SERVICES.

www.VLSES.com | 877-861-8588 | 19500 Hwy. 249, Suite 440, Houston, TX 77070 | info@vlses.com