

Resource Conservation Council

Facility Conformance Subcommittee

October 01, 2024

Staff Contact: Alexa Gilbert

Environment & Development Planner

Procedures for Online Meeting

- Please keep your microphone on mute when not speaking.
- Please state your name and the entity you are representing when you ask a question or provide a comment.

Welcome and Introductions

- Risa Weinberger, Risa Weinberger & Associates, Inc., Vice-Chair, Facility Conformance Subcommittee

Words from the Vice-Chair

- Risa Weinberger, Risa Weinberger & Associates, Inc., Vice-Chair, Facility Conformance Subcommittee

Welcome and Introduction of Applicant(s) and Applicant Representative(s)

- Risa Weinberger, Risa Weinberger & Associates, Inc., Vice-Chair, Facility Conformance Subcommittee

Presentation

- ▶ Registration application for Strategic Materials landfill in Ellis County.

Lydia Gibson, Strategic Materials, Inc.

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North America's Largest Glass Recycler

**North Central Texas
Council of
Governments**



About SMI



- Largest glass recycler in North America, recycling **2.4 million tons of material per year***
- Largest plastic recycler in Ontario, Canada - 100M lbs. with 6 extruders
- 45 locations – U.S., Canada, Mexico
- SMI began life as a glass recycler in Cleveland, OH in 1896 as a partner to General Electric (GE) to recycle its lightbulb glass



- Acquired by the Sibelco Group 2024



*SMI also recycles ferrous, non-ferrous, cardboard, plastic and other materials

Circular Economy of Glass

Your bottle can be back on the shelf in less than 30 days.



Fiberglass Insulation



High value markets:

- Glass containers, fiberglass insulation
- Fillers for carpet, terrazzo, tiles, countertop, concrete
- Light-weight aggregate

Low-value markets: (less desirable)

- Road base aggregate

- 100% recyclable, endlessly, with virtually no loss
- Recycled glass displaces virgin materials by up to 95%
- Recycled glass melts at a lower temperature
 - 2-3% energy reduction for every 10% of recycled glass used
 - 1 ton of CO₂ is reduced for every 6 tons of recycled glass
- Extends furnace life for container manufacturers
- Energy Star®, LEED® eligibility - fiberglass & building materials
- Strength properties / pozzolanic characteristics
- Consumer considerations – chemically inert, ocean-friendly, recyclable/sustainable

SMI in Texas

- SMI collects materials from 8 separate counties within Texas and 2 cities within Oklahoma.
- Total population of counties and cities that are contributing to the MRF's are 14,895,770



Glass Warrior and plant manager, Jason Plummer, hosts a tour for visitors at SMI Midlothian, Texas, explaining the best glass recycling practices.

Goal No. 1: Support Materials Management Education and Training



- Memberships:
 - State of Texas Alliance for Recycling (TX Star)
 - Glass Recycling Coalition Institute for Scrap Recycling Industries (ISRI)
 - National Recycling Coalition (NWRA)
 - Solid Waste Association of North America (SWANA)
 - Glass Packaging Institute (GPI)
 - Container Recycling Institute (CRI)
- Provided tours of the facility to:
 - Arlington, TX
 - Temple, TX
 - State of Texas Alliance for Recycling

Goal No. 2: Promote Creation and Expansion of Waste Management Programs



- Strategic Materials is dedicated to increasing opportunities for glass recycling across communities and from construction and demolition projects.
- SMI Provides and onsite public drop-off location.

Goal No 3. Measure Regional Waste Reduction Efforts

- SMI's glass processing capabilities support the regional need for glass recycling end markets. SMI's Midlothian facility allows for the inclusion of glass in curbside and community recycling programs thereby reducing the need for additional landfill capacity and diverting materials from the landfill.

Goal No. 4. Support and Encourage Innovative Technologies for Other Waste



- SMI is dedicated to continuous innovation to process and manage emerging glass waste recycling streams. SMI works with industries using glass material or that have potential glass waste material to divert glass from the landfill.

Goal No. 5. Promote Public and Private Sector Partnerships

- SMI collaborates with both or public and private customers and suppliers to maximize opportunities for glass recycling. Our supplier base is composed of both public entities as well as private recyclers. We are aligned with our suppliers to divert as much glass waste as possible from the landfill. We work with and encourage communities to take advantage of funding opportunities through the EPA, foundations such as the Glass Recycling Foundation, and state resources to expand access to glass recycling in underserved communities.

Thank you

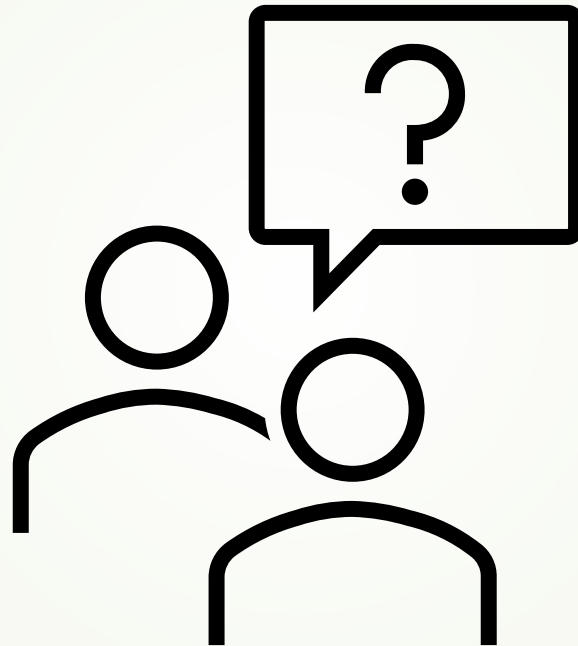
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Q & A for Applicant



Action Item

The Subcommittee will discuss the permit application for the Strategic Materials, Inc. landfill and vote whether to recommend to the Resource Conservation Council (RCC) that the application conforms to the North Central Texas Regional Solid Waste Management Plan.

Next Steps

- The Resource Conservation Council will vote to approve the Subcommittee's conformance recommendation for the Strategic Materials, Inc. landfill at its next meeting on November 07, 2024.
- A letter stating the RCC's final conformance determination will be submitted to the TCEQ, and a copy will be sent to the applicant.

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