Solid Waste Compost Facility

Council Presentation
December 6, 2022

Our Compost Facility Vision

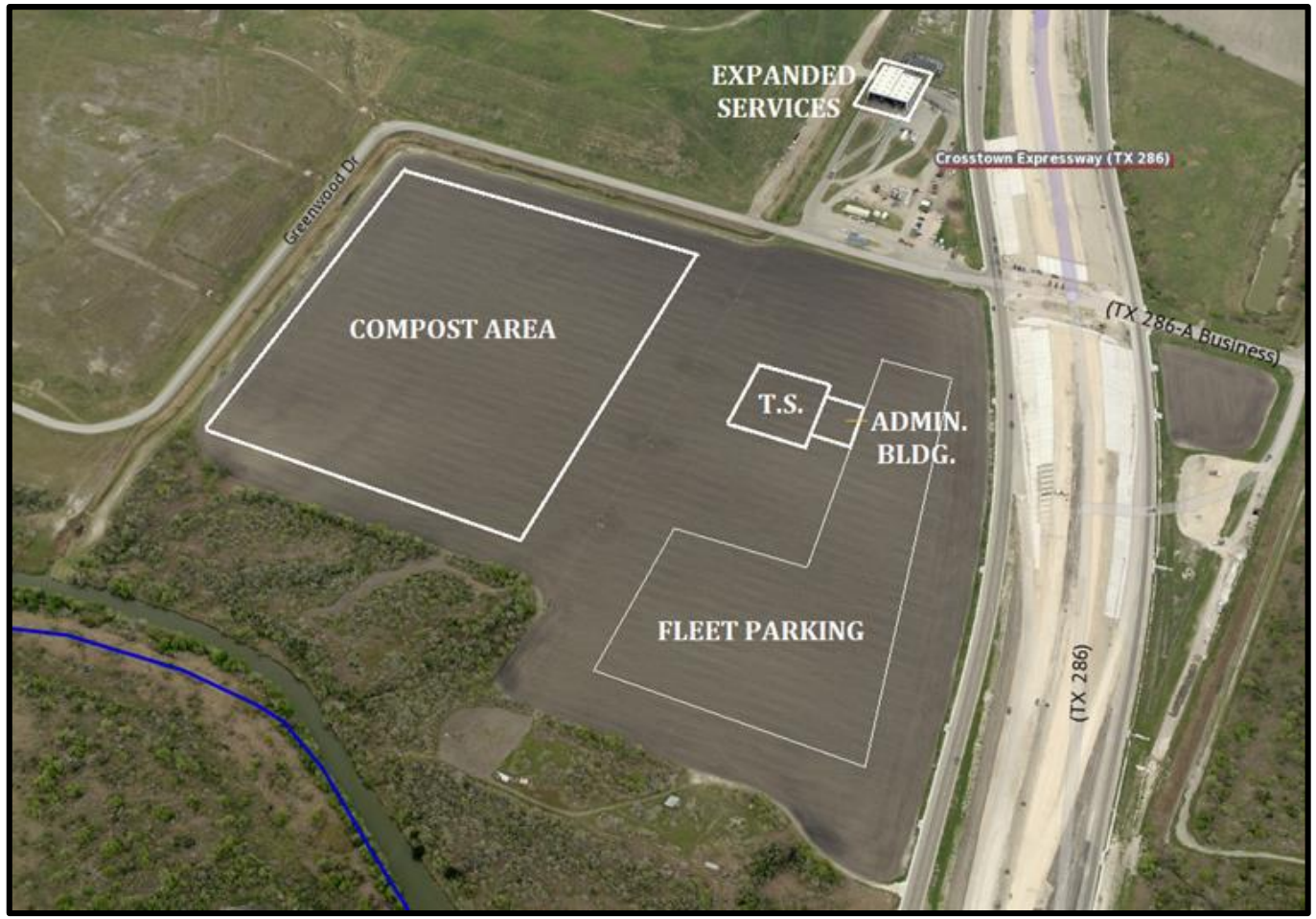
The proposed compost facility will process wood chips mixed with wastewater sludge in an Aerobic, open windrow format

Byproducts of Aerobic composting are heat, carbon dioxide and water vapor

The Aerobic composting process is designed to prevent Noxious odors from developing

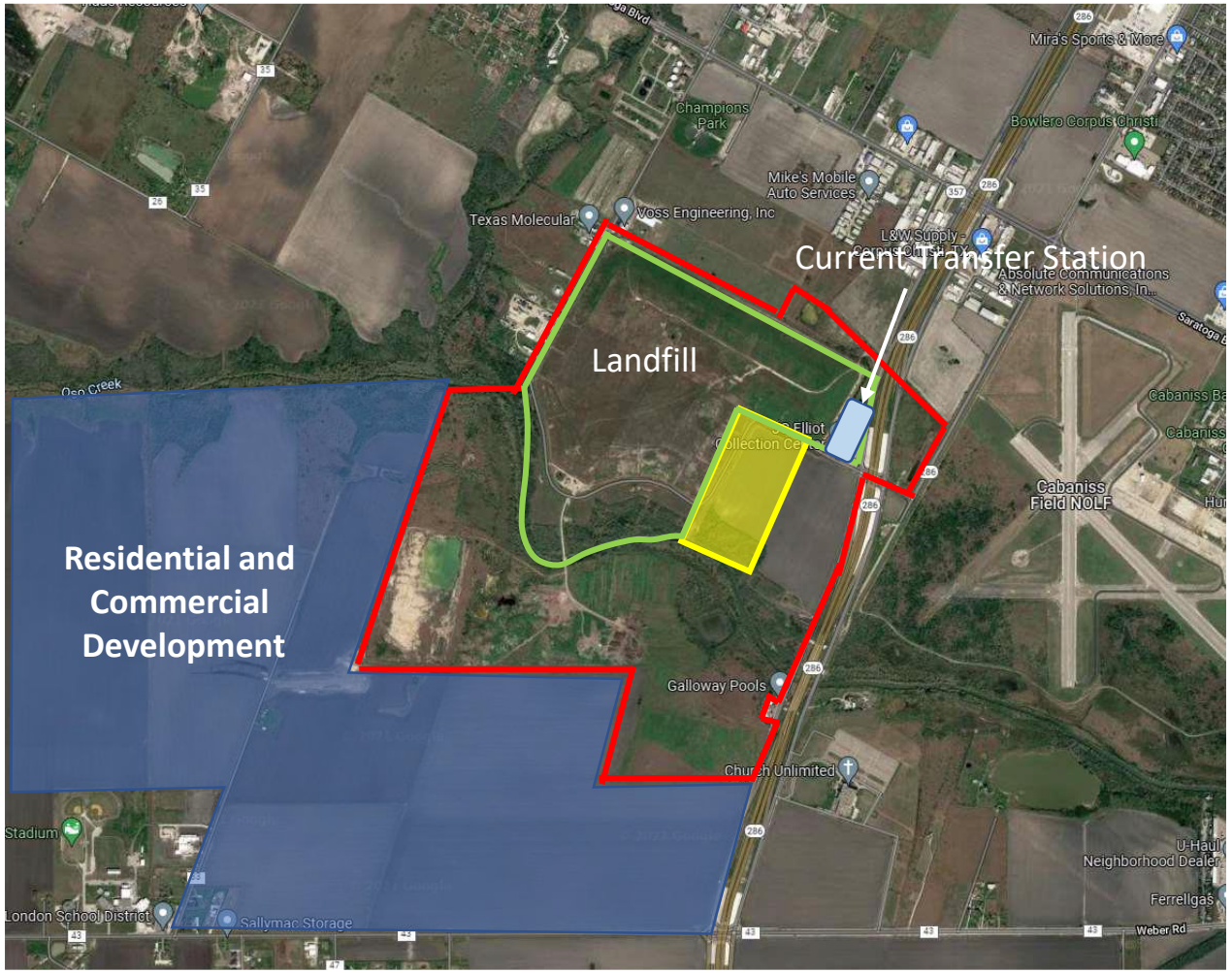
Highly regulated by the TCEQ

Contract Awarded For Compost Facility Design



- On March 30, 2021, the council awarded a Professional Services Contract to Risa Weinberger & Associates, Inc., of Dallas, TX, to provide conceptual design and permitting for a new Solid Waste Compost Facility to be located on the 92-acre parcel located next to the current J.C. Elliot Transfer Station.

Statement of Issue

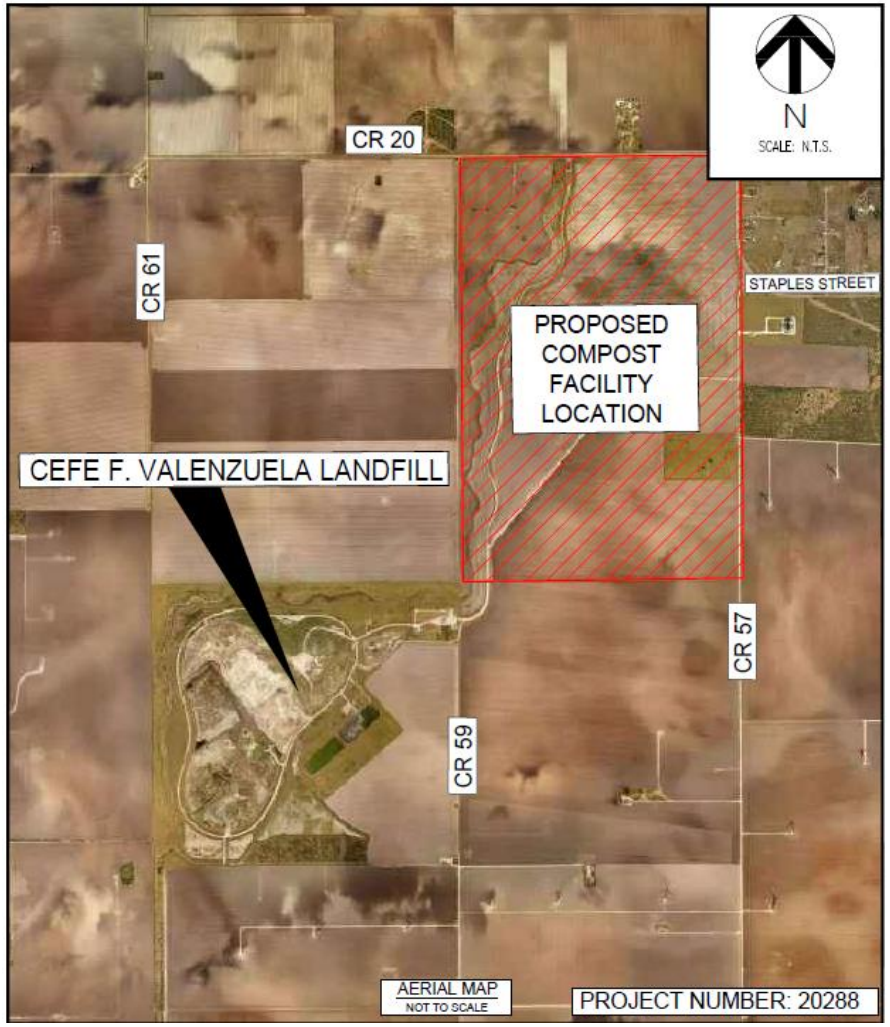


- Approximately 750 acres of city owned property (red outline)
- Property was purchased to construct a new compost facility (yellow box)
- This area has a high growth potential. Encroachment by residential and commercial construction may make this idea obsolete.
- There are concerns of noise, dust and odor issues from the compost facility affecting quality of life.

Alternate Locations

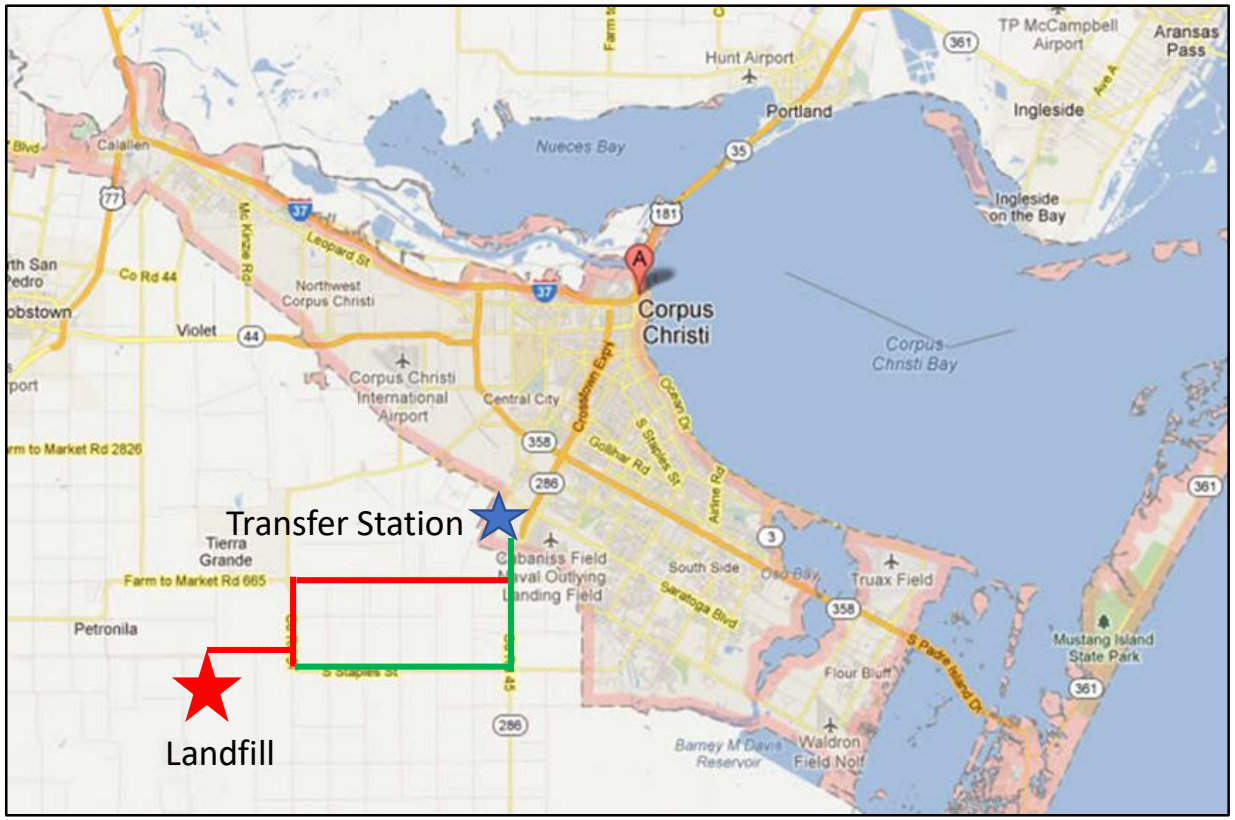
- The blue star represents the original proposed location next to the J.C. Elliot Transfer Station.
- The red star represents the new proposed location at the Cefe Landfill.
- Roughly 10 miles separate the two locations.

Cefe Landfill Location



- The Cefe Valenzuela Landfill has 2,268 permitted acres and a life expectancy of over 170 years.
- Roughly 475 acres of the current landfill that will not support waste disposal activities are available for the compost facility.
- There will be portions of the highlighted area that are not usable for the facility due to easements and buffer zones.

Additional Annual Expense of Hauling Brush to Cefe



- Annually there will be 100,000 cubic yards of brush (1,000 truck loads) to haul to Cefe
- Each round trip will require 20 minutes load time, 30 minutes drive time, and 10 minutes to unload.
- Hauling cost (based on Corp of Engineering data) is ~$100 per hour.
- Brush hauling is ~$100,000 additional per year.

Project Schedule

2022 - 2023	2024	2024
December - December	**January - April**	**May - October**
Preliminary Design and Permitting	**Bid/Award**	**Construction**

Projected schedule reflects City Council award of amendment in December 2022, with conceptual design, process design, and permitting completion anticipated by December 2023.