



USACE, MOBILE DISTRICT

RUBBLE YARD FEASIBILITY STUDY

Cape Canaveral Air Force Station, Florida

PROJECT HIGHLIGHTS

CLIENT PROFILE

The U.S. Army Corps of Engineers (USACE) Mobile District manages a variety of programs in Alabama, Georgia, Florida, Mississippi, and Tennessee as well as Central and South America. The District's mission includes supporting all branches of the military and other federal agencies such as U.S. EPA, and providing design and construction for civil works projects. Cape Canaveral Air Force Station (CCAFS) is an installation of the U.S. Air Force Space Command 45th Space Wing, which is headquartered at Patrick Air Force Base (PAFB) in Brevard County. CCAFS is the primary launch facility for the Command's Eastern Range and has supported America's space program since the 1950s.

PROJECT OVERVIEW

The 45th Space Wing generates a significant volume of construction and demolition (C&D) debris. A recycling center located at PAFB processes common recyclable materials but does not have adequate space to process and store C&D recyclables, which could be potentially repurposed for future infrastructure projects at CCAFS and PAFB. Additionally, the recycling center is operating near maximum capacity with little flexibility for expansion. The 45th Space Wing and USACE awarded the firm a task order to perform a siting and feasibility study for a new facility that could be used for recycling and C&D materials processing.

CHALLENGES

- Coordination with the Air Force and various stakeholders internally and externally.
- Obtaining consensus for siting from multiple federal agencies.

THE MSE GROUP APPROACH

The approach consisted of various technical tasks conducted in parallel to meet the project objectives:

- **Stakeholder analysis:** Conducted interviews, performed data reviews, and coordinated with CCAFS, PAFB, NASA, and regulatory personnel.
- **Permit review:** Completed analysis of potential permitting requirements including environmental resource permits, air permits, and stormwater permits.
- **Capacity analysis:** Conducted detailed capacity analysis of recyclables and C&D based on future development projection relative to required facility capacity.
- **Preliminary NEPA assessment:** Completed preliminary evaluations for wetlands, threatened and endangered species, contamination impacts, and other NEPA components for three potential sites identified by the project.
- **Geotechnical investigation:** Completed water level, near surface soils analysis, and bearing capacity estimates for potential site locations.
- **35% design and cost analysis:** Completed MILCON-level information and costs for DD1391 consideration for MILCON design and construction funding.

ACCOMPLISHMENTS

- The draft technical document was reviewed with no comments from stakeholders.
- Reallocation of funds for final design and construction is proceeding.

AREAS OF EXPERTISE

- Planning
- Engineering (multiple disciplines)



Our design teams routinely use various renderings and layers to aid stakeholders with decision making and technical reviews.