

PROJECT REFERENCE

ODESSA FRAC SAND TRANSLOAD FACILITY | DESIGN

Location: Odessa, TX

Owner: Wildcat Minerals

STT Enviro Corp was contracted to engineer, design, supply, install and commission a transload and storage system for Wildcat Minerals in Odessa, Texas. The new system was to serve two purposes, first, increase the capacity of the existing operation to at least 12,000 MT and second, to streamline the process of unloading, storage and distribution of frac sands.

The new system includes unloading equipment that can unload hopper bottom rail cars on two tracks and storage silos that can inventory up to four different sands. The system also has a weigh-scale and control system to provide inventory control of the product. The foundation has been designed to include an underground tunnel to position the unloading equipment near the railcar unloading station. The product from the rail car is conveyed by a belt conveyor and bucket elevator into one of the four storage silos. The base of the silos includes drive-through openings for bulk transfer trucks. The product can be loaded into the truck via the pneumatically actuated gate and the inventory of the product is monitored using a truck weigh scale.

STT has also engineered a control building that houses all the electrical and instrumentation to provide power and control to the operation of this site.



PROJECT HIGHLIGHTS

- STT worked closely with the end-user to design a system to meet their current and future needs.
- The new system will streamline the process of unloading, storage and distribution of frac sands.
- Foundation has been designed to optimize the available real estate while keeping the existing site operational.