

CASE STUDY

Wastewater Renovation at Paradise Plaza

Project Type: Commercial Development / Wastewater Treatment

Location: Paradise, California

HIGHLIGHTS

Dispersal line solution that avoided excavation for reduced construction impact.

Executed in four months with minimal impact on the ongoing operations of retailers and restaurants.

Provided system overhaul with new collection, treatment, and dispersal infrastructure.

VEYRA WASTEWATER INFRASTRUCTURE RENOVATION AT PARADISE PLAZA

Veyra executed a significant infrastructure overhaul at the Paradise Plaza regional mall in Paradise, CA. The 12-acre site with retailers and restaurants suffered from failing wastewater septic systems that couldn't handle the load. This led to environmental and operational problems. The solution included replacing the treatment system with modern technology and in turn, ensured regulatory compliance and minimizing disruption to the commercial hub.

CHALLENGES FACED

- **System Failure and Environmental Hazard:** The existing septic systems were critically failing, unable to handle the commercial wastewater load, which resulted in septage surfacing in parking areas and led to serious environmental and regulatory compliance issues.
- **Operational Constraints on an Active Site:** The project had to be completed in a fully operational regional mall, requiring intensive planning and traffic control to execute the work with minimal disruption to tenants.
- **Time-Sensitive Execution During Peak Season:** Construction overlapped with the peak holiday shopping season, requiring a fast, four-month schedule to protect tenant revenue and minimize commercial disruption.



SOLUTIONS IMPLEMENTED

- **Complete Modernization of Wastewater Management:**

Veyra resolved the sewage failure by installing 20,000+ feet of piping, two grinder pump lift stations, pre-treatment tanks, and a modified SBR unit treating up to 20,000 GPD.

- **Innovative Trenchless Dispersal System:** To avoid extensive excavation in parking areas, the dispersal system was renovated by slip-fitting 12,000 feet of new drain line into existing pipes.

- **Infrastructure and Operational Management:** Veyra also upgraded the water supply system with new pressure reducing valves (PRVs). Project execution involved strict traffic control and close tenant coordination, allowing for the work to be completed in four months with minimal impact.



OUTCOME AND IMPACT

- **Regulatory Compliance:** The installed wastewater treatment system met all regulatory discharge requirements.
- **Operational Continuity:** Veyra was able to execute the diverse construction activities with minimal disruption to the commercial businesses, providing traffic control and working closely with tenants.
- **Asset Improvement:** The project renovated critical, failing infrastructure, protecting the property owner's asset and ensuring long-term, reliable wastewater management for the busy commercial tenants.

The wastewater infrastructure renovation was a critical project that addressed the failure of an aging septic system at a busy regional mall. By implementing a modern solution, Veyra resolved regulatory and environmental issues with minimal disruption to ongoing commercial operations.

