

REMEDIATION SYSTEMS INSTALLATION

CASE STUDY

PROJECT OVERVIEW

Project Name: Free Product Recovery System LAX

Location: Los Angeles International Airport

Job Type: Remediation System Installation

DESCRIPTION

Implementing a strategy to install a remediation system to recover a plume of jet fuel, several million gallons of Jet fuel were estimated to be floating on the ground water in a lens up to 7' thick over 20 acres at 100' BGS. At the completion of the installation the system was able to remove 1,000 gallons of free product jet fuel from LAX each day. The installation of a Free Product Recovery System at Los Angeles International Airport was a multifaceted project that included the installation of the remediation system; extensive trenching, piping, backfilling, and concrete resurfacing activities; and significant electrical work – all while managing the intricacies of working within active airspace.



MAIN TASKS

- 3 miles of saw-cutting, breaking & removal, and trenching through 15-18" aircraft-rated pavement
- Installation of piping – dual containment fuel recovery lines; vacuum lines; ABS compressed air lines; and electrical, signal & fiber optic lines
- Installation of 250 well vaults (100 Aircraft Rated) with related well head manifolds & components
- Installation of Free Product Recovery System
- Installation of complex fiber optic telemetry systems & multiple PLC control main header vaults
- 6000 PSI flexural strength concrete resurfacing
- Management of an airport security gate, including escorts for vendors, material suppliers and subcontractors



CHALLENGES

Airport Security Regulations – Working in an active airspace, adhering to heightened security regulations, and coordinating with LAWA operations, police, fire, and engineering departments required substantial planning and creative solutions. For example, to reach specific areas with minimal disruption, E&E performed horizontal boring beneath active aircraft taxiways during overnight shut downs and an additional 2,000ft of trenching parallel to active taxiways, aircraft parking areas, and hangars.

INTERESTING POINTS

- Due to the long distance of conduit runs, a complex control system was implemented which required fiberoptic wiring.
- The project was required to be built in phases – with each being complete and brought online before starting the next.
- Mass production of well head components and well vaults (including prototype creation)

ABOUT E&E CONSTRUCTION

Engineering and Environmental Construction (E&E) was founded in 2006 with a primary focus on the installation of environmental remediation systems. Over the years, we've continually expanded our skill-sets to become one of the industry's leading purveyors of full-service construction services – both within the environmental industry and in general construction. Today, we are proud to offer a wide range of highly specialized environmental engineering capabilities and a full-suite of general construction services to support our clients' ever-evolving needs.



STATEMENT OF QUALIFICATIONS

Engineering and Environmental Construction, Inc (E&E) is a privately held corporation established in 2006. E&E's main construction offices are based in Huntington Beach, CA. We are licensed to conduct operations throughout California, Arizona, Nevada, and Washington.

Contractor Licenses and Certifications Include (but aren't limited to):

- Class A General Engineering License
- B General Building License
- C-10 Electrical License
- C-36 Plumbing License
- Hazardous Substances Removal License
- Annual OSHA Excavation & Trenching Certification
- Remedial Action Certification
- SCAQMD Rule 1166 – Various Locations Permit

E&E is recognized as an SBE with many entities, such as the DGS, and we are also pre-cleared by Homeland Security for access to ports and military installations. We maintain a Zero Incident Safety Record and a 0.78 Experience Modification Rate (EMR), among other H&S recognitions.

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