



## Nitra-Seal Protects First Responders at New State-of-the-Art Fire Station

### Vapor Intrusion Mitigation for a Critical Infrastructure Project in Northern California

#### Highlights

- Vapor mitigation project for new fire station with oversight from county Department of Environmental Health
- Nitra-Seal<sup>®</sup> installed to prevent vapor intrusion from volatile organic compounds, including benzene, bromodichloromethane, and chloroform

#### Project Summary

To meet growing emergency needs, a Northern California fire station was built on a former industrial site with contamination history. Listed on the Department of Toxic Substances (DTSC) Hazardous Waste site list due to a past UST leak, environmental tests found elevated concentrations of benzene, bromodichloromethane, and chloroform in soil gas, posing a vapor intrusion risk. To mitigate this, the city entered a Remedial Action Agreement with the county, which required a Vapor Intrusion Mitigation System (VIMS) to protect first responders.

#### Mitigation

The environmental consultant designed a site-specific contaminant vapor barrier system using Nitra-Seal, which is applied beneath the foundation, creating a long-term barrier against vapor intrusion. The Nitra-Seal vapor barrier was installed by a Land Science certified installer and was completed in accordance with the required QA/QC procedures.

#### Results

The successful implementation of the Nitra-Seal system ensured compliance with environmental regulations and created a safe indoor environment for future occupants. As the region's first all-electric fire station, this project aligns with the city's initiatives while providing essential emergency services. Once operational, the fire station is expected to be one of the city's busiest stations, highlighting the critical role of vapor intrusion mitigation in public safety infrastructure.