



Site Details

Location:

Southeast Region

Contaminants of Concern:

Volatile Organic Compounds
and Petroleum Hydrocarbons

Building Use:

Military Facility – Battalion
Headquarters

Advanced Vapor Barrier Protects From Potential Vapor Intrusion Risk

Nitra-Seal Ensures Safe Indoor Environment at a Marine Corps Base

Project Summary

A Marine Corps base in the Southeast planned the construction of a new Battalion Headquarters facility. Given the historical presence of environmental contamination at various locations across the base, proactive measures were required to mitigate potential vapor intrusion risks from volatile organic compounds (VOCs) and petroleum hydrocarbons (PHCs). Ensuring the health and safety of Marines and support personnel was paramount. The project team selected the Nitra-Seal® vapor mitigation system to effectively address these vapor intrusion concerns. Nitra-Seal was chosen due to its excellent chemical resistance against VOCs and PHCs, proven track record in similar military applications, competitive cost, and streamlined installation process suitable for military construction timelines.

Mitigation

A Land Science Certified Applicator expertly installed the Nitra-Seal vapor barrier beneath the foundation of the new Battalion Headquarters facility. The installation included rigorous Quality Assurance/Quality Control (QA/QC) protocols, such as comprehensive smoke testing, ensuring the system's integrity and effective sealing of all utility penetrations. The efficient installation of the Nitra-Seal system allowed the project to meet stringent scheduling and budgeting constraints required by military specifications.

Results

Following successful implementation of the Nitra-Seal vapor mitigation system, the Battalion Headquarters is now protected from potential vapor intrusion, safeguarding Marines and support staff who will occupy the building. This proactive approach highlights Camp Lejeune's ongoing commitment to maintaining a safe environment for service members while meeting strict environmental compliance requirements.

