Corrective Action
U.S. EPA BRELLA Program

Figure 1. Former Engine House

R.E.A. was selected as the Qualified Environmental Professional (QEP) to develop and implement a Corrective Action Plan (CAP) at an historic abandoned railroad engine house located in north-central Vermont. ***R.E.A.*** was responsible for developing a plan to address petroleum, solvent and PAH contamination discovered in surface soils surrounding the building as well as interior building and vapor intrusion issues. The selected remedy included the installation of a geo-textile, soil and vegetative cover over four acres.

Figure 2. Building interior prior to renovation

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Key Findings

- A geo-textile, soil and vegetative cover were established over an area of approximately four acres.
- Concrete bunkers and miscellaneous debris were closed or removed from the property in accordance with State guidelines.
- All exterior and interior portions of the 30,000± square foot building were renovated during the project.
- A vapor barrier and new concrete floor were installed throughout the building.
- Monitoring wells were properly abandoned in accordance with State guidelines.
- The interior surfaces of the main building were encapsulated using an epoxy-based sealant and paint.

Figure 3. Installing geo-textile

Interior renovations included asbestos and lead paint abatement as well as installation of a vapor intrusion barrier beneath the main building. ***R.E.A.*** personnel assisted the client with subcontractor selection and documented that all work was completed in accordance with the approved CAP.

The Brownfield renovation and reuse goal was to use the property for industrial purposes. All of the initial goals and objectives were achieved following the implementation of the CAP.