



Case Study: Remediation Services

Medical Office Space
Somerville, MA

Business Challenge

EBI Consulting was retained by a development company to perform Remediation Services on a former metal plating facility turned medical office space in 1981.

During a 2012 due diligence assessment, soil and groundwater impacts were identified below the existing building. Chlorinated solvents, particularly Tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene, vinyl chloride and minor petroleum constituents were identified above Massachusetts Department of Environmental Protection Reportable Concentrations (RC's) requiring additional testing.

In August 2012, further testing revealed that indoor air impacts were above imminent hazard threshold criteria, triggering regulations that require the implementation of a Massachusetts Contingency Plan (MCP) Immediate Response Action.

EBI's Approach

EBI provided in-depth Remediation Services to the buildings and grounds to eliminate the contaminants, including:

- Building Structure Removal
- Soil Excavation, Dewatering and Disposal
- Sub-Slab Depressurization
- Additional Assessment – Drilling (shallow, moderate and deep)
- Release Abatement Measure Plan
- Laboratory Analysis – Groundwater, Soil Vapor, Indoor Air and Soil
- Reports and Project Management
- Phase II – Comprehensive Site Assessment
- Bio-Remedial Application and Inoculation (forthcoming subsequent to MassDEP approval)





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Project Benefits

EBI has developed a remedial approach that is both technically efficient and cost effective. Our approach builds upon existing site information that enables implementation of remedial activities while meeting MCP comprehensive response action timelines.

EBI reviewed all remedial options and included only the designs deemed appropriate. EBI had discussed the design, layout and assessment activities with a representative of the property owner, abutting property owners and the MassDEP to ensure that all parties were on the same page and to avoid delays in access and remedial implementation.

Based on the preliminary understanding of the site conditions and project objectives, EBI believes that a bio-remedial approach, in-situ remediation, coupled with the removal of impacted soil below the building will be the most viable path for advancing this project to a satisfactory level of remediation while maintaining cost effectiveness.

EBI's Remediation Services

EBI Consulting's Site Investigation & Remediation Group provides environmental site investigation, contaminant remediation and regulatory-compliant site closure services to public entities and private industries, including law, architectural and engineering firms, construction managers, developers, property owners, organizations and institutions.

Our team uses proven, technologically current, practical and innovative approaches to evaluate, manage, and reduce clients' environmental liabilities.

Did you know... According to the National Research Council, there are at least 126,000 sites with contaminated groundwater in the United States, all of which require remediation and over 10% of cases are considered complex.

Contact Us

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