

Quicfrez Remediation and Design

Project Information:

Client Name: WI Department of Natural Resources

Project Location: Fond du Lac, Wisconsin

Miller Engineers & Scientists was contracted initially by the City of Fond du Lac and subsequently the WDNR to provide environmental services at the former Quicfrez Complex. The site was an old industrial facility located along the banks of the Fond du Lac River. Soil and groundwater were contaminated with high levels of trichloroethene (TCE) as well as semi-volatile organic compounds, metals, and petroleum.

Miller initially provided Phase I/Phase II environmental site assessment services in the late 1990's when the TCE contamination was discovered. Upon contract award with the WDNR, Miller developed and analyzed 5 remedial options to address the known high levels of TCE. The most cost-effective and feasible option was an innovative new technology called Lasagna®, which combines electrokinetic technology with zero-valent iron treatment zones. This was the third application of the technology in the U.S. The system was constructed in summer 2004 and operated for approximately 2 years.

After system design, Miller provided construction observation and documentation, remedial action reporting, system operation and maintenance, and verification sampling. The intended end-use of the property was public greenspace, including a bike path along the river.



Project Highlights:

- Phase I / II / III Environmental Site Assessments to determine extent and location(s) of contamination (on-site and in riverbed)
- Hydrogeologic Analysis
- Environmental Specs for Building Demolition
- Immediate Response for Riverbank Collapse & UST Exploration, Assessment, and Removal
- Design and Ch. 30 Permitting for Riverbank Reconstruction and Capping
- Remediation alternatives research and design to remove TCE contamination in a cost-effective application
- Observation and reporting during remediation system construction
- System operation and maintenance
- Remedial Action Plan (RAP) reporting
- Sampling for verification of TCE removal

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