

# PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

## Project Summary



### **VERONA WELL FIELD SUPERFUND SITE BATTLE CREEK, MICHIGAN**

Progressive serves as the overall project manager for the group of potentially responsible parties (PRPs) at this CERCLA (Superfund) site located in Battle Creek, Michigan. Progressive's principals have worked for this PRP group since 1992. In 2003-2006, Progressive provided assessment, design, and construction management of remedy renovations/enhancements totaling \$750,000 on a phased schedule. The phasing was necessary to minimize downtime of existing components to ensure continued protection of the City's drinking water supply. Work included: upgrades to a pump and treat system increasing the capacity to 8 mgd; and installation of air sparging systems at two contaminant source areas. Progressive was responsible for the following: hydraulic monitoring and groundwater modeling, water quality monitoring, air sparging pilot tests, system design, equipment procurement, and management of several subcontractors. Construction included installation of one recovery well, 32 air sparge wells, and 9 monitoring wells; 7,000 feet of HDPE piping and conduit/wiring; installation of a pump station; renovation of two pump houses including foundation/building expansion, re-roof, HVAC, lighting, electrical power drop and 750 KVA transformer, motor control center, and plumbing; and installation of a trailer mounted air sparging system. Each phase of the construction was completed on time and within budget.

Additional services provided by Progressive since 1999 include support of negotiations in settlement of a Natural Resource Damage claim, an Orphan Share credit from USEPA, and new consent decrees between the Group and USEPA, the State and the City to voluntarily enhance the current remediation systems beyond the requirements of the ROD. Progressive also calculated revised cleanup criteria to support USEPA's Explanation of Significant Difference (ESD), and developed an overall well field management plan with the City. Progressive also negotiated approval for remedy enhancements and shut down of the air stripper treatment system.

Recent data collection and other activities included aquifer tests, tracer studies, river leakage studies, metals background study, soil cleanup verification sampling plan, surveying and GIS/database development. In addition, Progressive completed a vapor intrusion analysis and institutional controls study in support of USEPA's second Five Year Review for this site. In 2009, Progressive obtained agency approval to proceed with closure demonstration for portions of the site groundwater remedy. Progressive continues to provide annual project management, remedy O&M, monitoring and reporting with annual budgets averaging \$500,000.

### **PROJECT HIGHLIGHTS**

- CERCLA
- Remedial Design/Remedial Action Work Plans
- Pilot Testing
- Remedial Alternatives Evaluation
- Institutional Controls Study
- Vapor Intrusion Analysis
- Natural Resource Damage Claim Negotiation
- Construction Management
- Design/Build Remedy Enhancements
- Air Sparging, SVE and Pump and Treat
- O&M

### **CLIENT**

Verona Well Field RD/RA Group  
1992 - Present

*"They are very client oriented and detail oriented, and responsive to questions and concerns. I have a very high regard for their competence and their sensible advice."* - Craig Hupp, Attorney for the Verona Well Field Superfund Site PRP Group (quoted from a referral email dated 1/25/05)



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