

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

Project Summary



FORMER COLT-HOLLEY MANUFACTURING FACILITY PARIS, TENNESSEE

Progressive provided remedial alternatives evaluation, design, and construction services to address soil and groundwater impacts including chlorinated solvents at this site. Progressive performed confirmatory monitoring to demonstrate compliance with cleanup objectives and obtained regulatory approval for closure of more than 75% of the site in 2005. Progressive then conducted air sparging and soil vapor extraction pilot tests in the remaining areas of concern at the site. Based on the pilot test results, Progressive prepared a Focused Feasibility Study and Corrective Action Plan. The regulatory agency, TDEC, approved the plan and Progressive implemented the remedy on a design/build basis thereby streamlining the project schedule and reducing overall cost. The remedial system construction was completed in May 2006 and consisted of:

- ◆ Installation of 28 air sparge wells, 14 soil vapor extraction wells and 4 monitoring wells
- ◆ Installation of more than 6,000 feet of below ground HDPE piping
- ◆ Renovation/expansion of existing treatment building for new equipment
- ◆ Air sparge flow control racks, associated piping, solenoid valves and timer for zoned operation and centralized control
- ◆ Soil vapor extraction system including knockout tank, blower, vacuum relief valves, air filters and discharge stack
- ◆ Air compressor system including air to air aftercooler, condensation drain, pressure relief valves and associated piping and appurtenances
- ◆ Baseline monitoring and remedy startup
- ◆ Preparation of record drawings and O&M Manual

In August 2008, remediation efforts were enhanced by the installation of 5 injection wells for a chemical oxidation pilot test using sodium permanganate (NaMnO_4). Additional chemical oxidation events were performed in February and June 2009, and February 2010. To date, the monitoring results indicate that the remedy has effectively remediated the contaminant plume and that natural attenuation is occurring. Initial results from post-chemical oxidation monitoring events show about 95% reduction in the concentration of contaminants of concern in site groundwater. Based on the success of chemical oxidation, TDEC approved sparge system shutdown and implementation of monitored natural attenuation in January 2010. Progressive personnel will continue to provide monitoring and reporting for this remedy.

PROJECT HIGHLIGHTS

- Site Assessment
- Pilot Testing
- Remedial Alternatives Evaluation
- Feasibility Study/Design
- Design/Build Remedy
- Air Sparging
- SVE
- Chemical Oxidation
- Monitored Natural Attenuation

CLIENT

EnPro Industries, Inc.
2004 - Present

"Ms. Morello and her firm have completed excellent work at the referenced site as well as other sites for EnPro." – Mr. Joseph Wheatley, EnPro Industries, Inc. (quoted from a referral email dated 7/24/07)



3912 W. Humphrey Street
Tampa, Florida 33614

Phone: 813-930-0669
Fax: 813-930-9809
Web: www.progressiveec.com
Info: info@progressiveec.com