

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

Project Summary



FORMER TRANSFORMER MANUFACTURING SITE ARCADIA, FLORIDA

Progressive was retained to engineer a cost effective solution for soil, groundwater and surface water impacts from past disposal practices at this site. Contaminants of concern included chlorinated solvents, DNAPLs, and petroleum products. Progressive personnel performed groundwater modeling, and soil vapor extraction (SVE) and air sparging (AS) pilot studies to obtain remedy design parameters. Progressive developed a cleanup strategy and prepared a Remedial Action Plan (RAP) for Florida Department of Environmental Protection (FDEP) review and approval. The RAP was approved and included natural attenuation for off-site impacts, groundwater pump and treat for on-site groundwater source areas, SVE for impacted soil and air sparging for on and off-site groundwater and surface water impacts.

Progressive provided remedy construction on a design/build basis, as follows:

- ♦ Secured access agreements for off-site properties necessary for installation of wells, piping and conduit.
- ♦ Installed 33 air sparging wells, 4 soil vapor extraction wells and 4 groundwater recovery wells in traffic rated vaults below grade.
- ♦ Renovated an existing building and installed a concrete equipment pad with canopy cover to house the remedial equipment, including a new power drop, roofing, fencing, lighting, and HVAC.
- ♦ Installed 1,500 linear feet of air/vapor piping, 1,000 linear feet of electrofusion welded HDPE for groundwater transmission, 1,000 linear feet of PVC piping for discharge of treated groundwater via an on-site infiltration gallery (drain field), and associated conduit/wiring for three separate remedial systems with components housed in a common treatment building.
- ♦ Obtained permits for treated water discharge to an on-site infiltration gallery.

Construction was completed ahead of schedule and under the approved budget. Concentrations of chlorinated solvents (i.e., PCE, TCE) in groundwater hot spots were as high as 200 ppm in 2001, and currently range from 4-20 ppm; other areas of the site have concentrations below 1 ppm. Surface water impacts have been eliminated. Progressive continues to provide O&M (including equipment maintenance, well redevelopment, air sparge well replacement and air stripper packing material change outs), monitoring, remedy performance evaluations, project management and reporting services for this site.

PROJECT HIGHLIGHTS

- Remedial Action Plan
- Aquifer Performance Testing
- Groundwater Modeling
- Air Sparging/SVE Pilot Studies
- Design/Build Remedy
- Air Sparging
- SVE
- Groundwater Pump and Treat
- Infiltration Gallery

CLIENT

EnPro Industries, Inc.
2001 - Present

"Ms. Morello and her firm are the complete package – excellent technical skills and project management, cost effective, and excellent communicators to all relevant parties." – Mr. Joseph Wheatley, EnPro Industries, Inc. (quoted from a referral email dated 7/24/07)



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