

# PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

## Project Summary



### **FORMER DRY CLEANER FORT MYERS, FLORIDA**

Progressive was retained by a national environmental engineering firm to support remedial strategy development and implementation at this former dry cleaner site. Progressive evaluated remedial alternatives and performed cost-benefit analyses to determine the best method for site closure.

Our review of site data and geologic conditions allowed development of an enhanced in-situ anaerobic bioremediation strategy for this site. Progressive's recommendation, remedial approach, and detailed life-cycle cost estimation enabled the client to negotiate a guaranteed fixed fee contract for site remediation and closure. This approach also enabled the property owner to proceed with a property transfer without experiencing a reduction in property value due to contamination.

Progressive developed a bench scale treatability study to evaluate various electron donors for enhancing the natural reductive dechlorination process in site groundwater. The treatability testing evaluated lactate, emulsified oil and whey, and the results demonstrated that lactate was the best choice for favorable bioremediation.

The full-scale bioremediation system was constructed in 2005. The 133 injection points have been utilized for injection with a mobile trailer mounted unit. Lactate injection events have been performed bi-monthly and concentrations have dropped by 90%. We are currently evaluating bioaugmentation options in order to further expedite remediation.

The fixed fee project and pace of cleanup are ahead of schedule and under budget. Progressive continues to provide data evaluation, recommendations for enhancements, and assistance with reporting.

This national engineering firm also utilizes Progressive to evaluate and develop remedial approaches and cost estimates for most of the sites on which they propose fixed fee remedies; a testament to Progressive's remedial engineering expertise.

### **PROJECT HIGHLIGHTS**

- Remedial Alternative Evaluation
- Remedial Action Plan
- Remedy Design
- Guaranteed Fixed Fee
- Insitu Bioremediation

### **CLIENT**

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