

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

Project Summary



PIPELINE RELEASE SITE ENOCHVILLE, NORTH CAROLINA

Colonial Pipeline Company retained Progressive to provide emergency response services upon discovery of a pipeline release at this site in North Carolina. Progressive was responsible for coordinating, managing and performing a fast-track site investigation and initial removal actions. The emergency response activities included management of multiple drilling rigs, initial product recovery using vacuum trucks, waste handling, communication with EPA's Region 4 on-scene coordinator, installation of a surface water underflow dam, and delineation of free product, dissolved petroleum impacts in groundwater, and soil impacts.

Progressive personnel performed aquifer testing, surface water and drinking water receptor surveys, negotiations with landowners and local regulatory agencies, residential well abandonment, installation of alternate private drinking water wells, installation of portable treatment units on affected private wells, and full-scale remedy design, construction, startup, and O&M.

Progressive prepared detailed status reports for regulatory review during the emergency response and initial remedial measures. Progressive also prepared the Contamination Assessment Report and Corrective Action Plan, both of which were approved by NCDENR without modification. The full-scale remedy consists of free product recovery and enhanced biological degradation of soil impacts. During construction of the free product recovery system, equipment and piping were installed to allow for future implementation of biosparging at this site (upon minimization of the product plume).

In June 2004, the product plume had been reduced sufficiently to allow conversion of 32 recovery wells to biosparge wells. This proactive approach involves injecting low volumes of air into the shallow aquifer to promote biological degradation to prevent dissolved impacts from spreading. The biosparging system has operated continuously with only minor shutdowns for maintenance since startup in 2004.

Currently, Progressive provides O&M support, data evaluation, preparation of status reports, evaluation of remedy enhancements, regulatory negotiation, database/GIS management, and coordination of sampling and maintenance of portable treatment units for private drinking water wells.

PROJECT HIGHLIGHTS

- Emergency Response
- Receptor Surveys
- Site Assessment
- Initial Remedial Actions
- CAP and CAR
- Design/Build Final Remedy
- Public Relations
- Excavation
- SVE
- Free Product Recovery
- Biosparging
- Fast-Track Implementation

CLIENT

Colonial Pipeline Company
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