

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

Project Summary



PIPELINE BOOSTER STATION KANNAPOLIS, NORTH CAROLINA

Colonial retained Progressive to review the work of another consultant and develop a streamlined, more cost-effective remedy for this site. Site impacts include free product (jet fuel), petroleum contamination in onsite soil and groundwater (surficial and bedrock aquifers), and petroleum and MTBE impacts in the bedrock aquifer offsite. Several private drinking water wells in the vicinity of the site were impacted with MTBE. Progressive worked with Colonial to identify a fast-track strategy for implementing initial remedial measures to prevent further offsite impacts.

Progressive coordinated implementation of treatment systems for nine affected private wells, as well as a monitoring program to ensure adequate protection of the drinking water supply. These initial remedial measures were completed within 1-month of project start.

Progressive performed an aquifer performance test and groundwater modeling to demonstrate that an onsite groundwater recovery system would eliminate migration of impacted groundwater off-site as well as pull back some of the impacts that had already migrated offsite. Remedy design was complicated by limited options for discharge of treated groundwater, and the desired fast-track implementation schedule. Progressive performed a detailed soil infiltration study and designed an onsite filtration gallery for handling the treated groundwater (tray air stripper). In addition, Progressive designed a SVE system to remediate onsite soil impacts and enhance product recovery; and also assisted with expansion of an existing onsite air sparging trench.

Progressive selected traditional technologies rather than innovative options due to public and regulatory scrutiny requiring plume containment. Progressive completed data collection, design, construction and startup within a 7-month period.

Progressive currently performs O&M, monitoring, performance evaluations, and reporting.

PROJECT HIGHLIGHTS

- Aquifer Performance Test
- Groundwater Modeling
- Point of Use Treatment Systems
- Remedial Alternative Evaluation
- Fast-Track Implementation
- Corrective Action Plan
- Remedy Design
- SVE
- Air Sparging
- Pump & Treat
- Infiltration Study
- Non-Discharge Permit
- O&M

CLIENT

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