

Fuel Storage Tank Services: Removals & Replacements



Underground Storage Tanks

Norfolk Ram Group, LLC (Norfolk) was retained by Southworth-Milton (a large Caterpillar equipment dealer), to provide engineering services for the replacement of existing underground storage tanks (USTs) at their Milford, Massachusetts service facility. On-site inspection by Norfolk found the client had two (2) USTs and one (1) underground waste oil tank with all three tanks deficient from meeting revised state environmental regulations.

Norfolk was contracted to provide the necessary environmental assessment and tank removal services for the site and to prepare the necessary design/build plans and specifications suitable for immediate aboveground tank replacements by the client's contractor. Other engineering included the design of a waste oil collection system upgrade, fuel dispenser arrangements, overfill protection and alarms, the design of a new concrete pad, and compliance with the Board of Fire Prevention Regulations 527 CMR 9.04. Norfolk also provided all of the survey support, prepared all of the necessary contract documents, and provided construction inspection and administration services through the completion of the project.

Scope of Services

Norfolk consulted with this client to pre-select a contractor that Norfolk then worked with on a "design/build" basis for completing the necessary demolition, tank removals, and limited environmental remediation work, and for construction of the new tank systems (that included a new fueling station, and an upgraded waste oil collection system). Norfolk performed the following specific tasks to assist with this successful project, which was completed on-time and within budget:

- Surveyed the existing tank, the waste oil collection system and the dispenser area at the facility to locate the existing tanks, appurtenances and the utilities to be protected.
- Prepared design plans, specifications and contract documents required for the installation of a new 5,000-gallon vaulted waste oil aboveground storage tank (AST) and a new 10,000-gallon diesel fuel AST, including provisions for the removal and proper disposal of the existing USTs and appurtenances, and the siting and design of a new reinforced concrete pad to be used to support the new ASTs.
- Assisted the client in the administration, inspection and project close-out work needed to remove and replace the waste oil tank and fuel oil tanks.
- Provided environmental oversight and Licensed Site Professional services required for the removal of the USTs and the closure of the site in accordance with state regulations.
- Supervised construction of the new diesel fuel and waste oil tanks; and provided inspections, certification and as-built drawings of the completed work.