



BERNER CONSTRUCTION, INCORPORATED PROJECT SUMMARY

Project Title: Interim Removal Action at Former Tank Farm 950

Location: Philadelphia Naval Surface Warfare Center, Carderock Division - Ships Systems Engineering Station, Philadelphia, PA

Scope: Provide labor, materials, and equipment to perform remedial activities for the Former Tank Farm 950

Berner Construction, Inc. (Berner) was subcontracted by the Tetra Tech EC, Inc., under contract with the U. S. Navy, to conduct the interim removal action at the Former Tank Farm 950 located at the Philadelphia Naval Business Center. The former Tank Farm 950 included several aboveground storage tanks (AST), supporting structures, and spill containment walls. All structures were removed by the Navy in 2003. The existing concrete floor and tank support structures visually discolored, prompting a site characterization of the area in 2004 which identified petroleum contamination of the underlying soil.

The project was performed jointly between Berner and Tetra Tech. Tetra Tech prepared the project plans and was responsible for the sampling and analytical services. Berner completed the remedial activities including excavation and off-site disposal of impacted soil, dewatering of the excavation area, and pre-treatment of the collected water prior to discharge to the City of Philadelphia sanitary sewer system.

Prior to starting intrusive activities, the water pre-treatment system was mobilized and assembled. The treatment system included frac tanks, particulate filters, and carbon adsorption canisters. The equipment was tested to confirm the system would satisfy the City of Philadelphia discharge criteria. The excavation area was dewater and the treatment system operated during excavation activities.

Berner began the remedial activities with saw-cutting the existing concrete slab and former AST foundations into manageable-sized sections.

The concrete was transported off-site for re-use as beneficial recycle materials.



Backfilled Former Tank Farm 950

Approximately 800 cubic yards of petroleum-impacted soil was then excavated, and transported to Clean Earth in Philadelphia for use as daily cover material at a local municipal waste landfill.

The excavated areas were sampled as they were completed. Once sample results confirmed the TPH levels in the soil were achieved, the area was backfilled with three feet of clean 3-inch stone and one foot of 2A modified stone.