



## USACE | USAF PAFB SPILL BUCKET CLOSURE

### Patrick Air Force Base

#### Relevant Services

Planning, Permitting and Compliance  
Assessment  
Storage System Closure  
Soil Sampling  
Source Removal  
Quality Control

#### Challenges

Expedited field activities  
Concurrent operations

#### Contract Number

W912QR20P0026

### OVERVIEW

NovelEolutions, Inc. (NovelE) provided geologic and engineering oversight for this regulatory petroleum storage system closure at the AAFES Gas Station located at Patrick Air Force Base (PAFB) in Brevard County, Florida. The scope of work included integrity testing and closure of four (4) Spill Buckets at AAFES Gas Station on Patrick Air Force Base with soil sampling, source removal, soil assessment, and regulatory reporting. All site work was completed in accordance with Chapter 62-761, Florida Administrative Code.

NovelE's key teaming partner, Petroleum Resources & Development (PR&D) conducted closure activities, consisting of replacement of four spill buckets (#1 through #4) corresponding to the four onsite underground storage tanks (USTs) and four 18-inch round manholes for the interstice probe access. All environmental work was conducted in accordance the Florida Department of Environmental Protection (FDEP) guidance document "Instructions for

Conducting Sampling During Underground Storage Tank Closure" dated April 2016. Sampling was conducted in accordance with the FDEP Standard Operating Procedures (SOPs) with instruments calibrated in accordance with the manufacturer's instructions.

The four (4) spill buckets, Spill Bucket #1, #2, #3, and #4 were replaced at the AAFES Gas station. Each spill bucket measured 1.5' x 1.5' x 2' with a resulting excavation size of 3' x 2' x 2'. To evaluate the quality of soils in the vicinity of the spill buckets, NovelE collected soil samples from the stockpiled excavated material and at the spill bucket locations for screening with a RAE Systems MiniRAE 3000, an OVA equipped with a photoionization detector (PID). Soils were screened with the OVA/PID at Spill Bucket #1, #2, #3, and #4. Soils were screened at the Spill Bucket #2 location although it had passed all integrity testing. A total of 800 pounds of petroleum impacted pea gravel was transported to the AOTC facility in Cocoa, Florida.

