PARSONS

Investigate. Remediate. Innovate.

Military Munitions Response Program Services

Parsons PLUS creating a safer world SM

A leader in the delivery of innovative Military Munitions Response Program (MMRP) services

Parsons has more than 25 years of experience delivering comprehensive munitions response and environmental engineering services to the Department of Defense and the Department of State. We have completed projects for the US Army Corps of Engineers (USACE), National Guard, Air Force, and Navy. Our diverse experience encompasses: state-of-the-art geophysics; inspections and characterization; large-scale removal actions at complex multistate sites; and removing chemical warfare materiel within dense residential areas.

Investigation

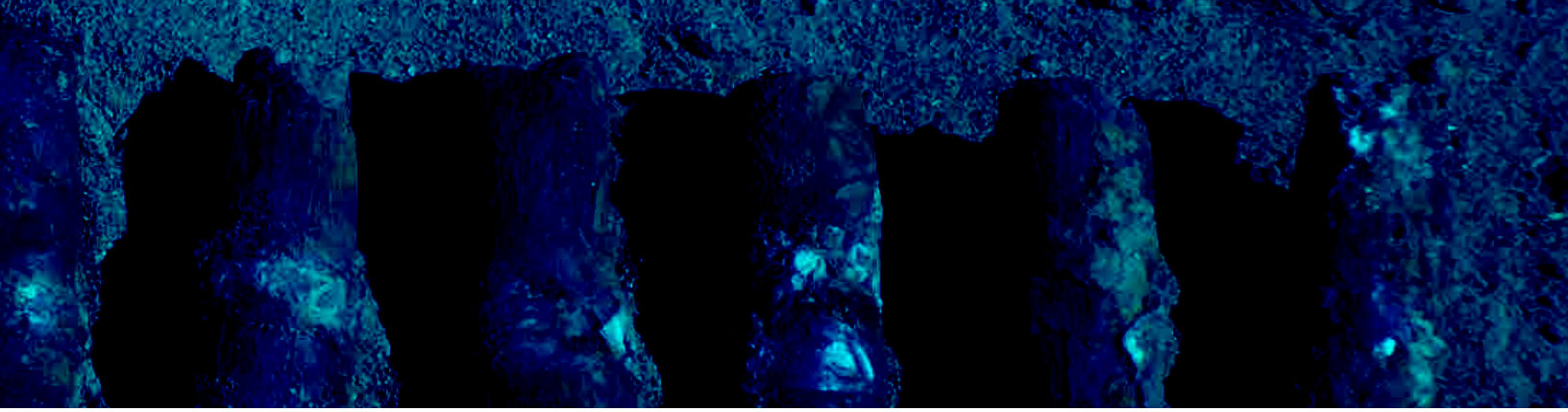
Parsons offers a wide array of conventional and advanced classification munitions detection technologies for identifying the extent of munitions contamination and locating suspected disposal and burial areas for both land and underwater investigations, for reducing investigation footprints, and for classifying and prioritizing anomalies. This “toolbox” of detection technologies allows Parsons to select the best tools for maximum benefit and efficiency of operations taking into account terrain, geology, types of munitions, depths of interest, weather, and interferences.

Culebrita, Puerto Rico. Parsons is conducting a remedial investigation (RI) of underwater areas using a combination of multi-beam bathymetry and side scan sonar (SSS) surveys along with snorkeling surveys for reconnaissance and visual confirmation of anomalies. Parsons also deployed vessel-based underwater camera systems along RI transects. Geophysical surveys are being conducted with submersible EM61 geophysical coils deployed using the EM ROV platform for deeper waters and the EM float platform for shallow waters. Positioning is supplied by an ultra-short baseline (USBL) system set up between the survey vessel and the ROV system with RTK-DGPS providing real-time positioning.

Military Ocean Terminal Concord, CA. Geophysical surveys were completed using a combination of helicopter–mounted magnetometers flown over shallow water estuaries and a boat-towed magnetometer where the water was deeper than 3 meters. Rather than attempt to investigate underwater anomalies in the near-zero visibility and strong tidal currents of the Sacramento River using teams of divers, Parsons deployed a barge with an electromagnet suspended from a crane to remove metallic anomalies from the river bottom to allow safe, visual examination on the barge.

Remediation

Parsons has executed MMR projects in all Comprehensive Environmental Response, Compensation, and Liability Act/Resource Conservation and Recovery Act (CERCLA/RCRA) phases from preliminary investigation through remedial response and removal to site closure. Parsons’ significant depth of MMR experience as a prime contractor includes performing more than 50 MMR removal actions, time critical removal actions, and remedial actions; clearing more than 10 million anomalies; clearing munitions over 24,000 acres; safely destroying more than 10,000 munitions and explosives of concern (MEC) items; and processing 12.5 million lb of munitions debris (MD).



Camp Sibert Remedial/Removal Actions, AL. Parsons completed munitions removal actions covering five munitions response sites over 492 acres, which included DGM and analog geophysical surveys and involved implementation of the technically innovative advanced classification process making it the "first-of-its-kind" MMRP removal action with advanced classification.

Fort Sill MEC Clearance, OK. Parsons completed munitions clearance over a 157-acre area and a remedial investigation (RI) over a 562-acre Rocket Pond Area which included DGM survey over 606 acres and analog methods over 112 acres. Parsons managed and safely destroyed more than 110 MEC items, removed 2,638 lb of MD, 3,127 lb of range-related debris and 31,657 lb of other debris in an often difficult terrain and under very hot working conditions.

Innovation

Parsons developed the PDM8™ metal detector system to adapt to steep challenging terrain and to minimize geological interference. This instrument is an improvement over conventional equipment due to its lightweight design and maneuverability and its ability to reject electronic ground interference. This instrument includes simultaneous collection of GPS positioning data and geophysical data logging using an improved user software interface. The PDM8™ has been tested and used for investigations at a wide variety of sites, including Hawaii, Saipan, Caribbean islands, Missouri, and the desert and scrub areas of Utah.

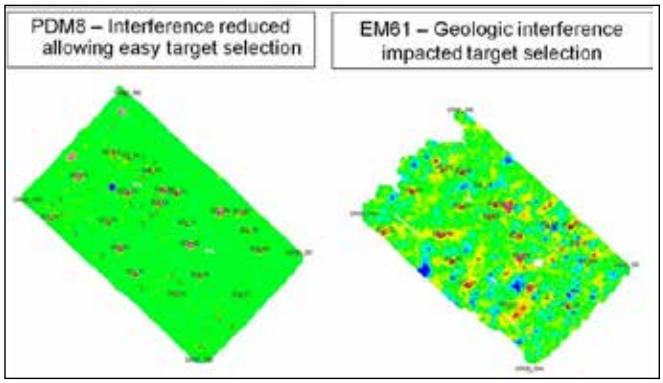
Parsons was the first production company to perform advanced geophysical classification (AGC) during the Environmental Security Technology Certification Program's (ESTCP's) initial demonstration projects. Parsons collaborated with ESTCP to develop field data collection and analysis procedures for AGC on 16 demonstration sites and has transitioned that experience to three additional non-demonstration projects. Using AGC on those project has saved millions of dollars by avoiding unnecessary scrap excavation while still remediating contaminated sites and achieving approval from state and federal regulatory agencies. Parsons executed the first regulator-approved implementation of advanced classification for a full-scale munitions removal action at the former Camp Sibert, AL. Using the MetalMapper® to collect high-quality cued (static) data over anomalies identified from dynamic EM61 data sets, Parsons was able to demonstrate the effectiveness of the anomaly classification process and obtained approval from regulators, USACE, and private land holders to investigate only 16% of the 8,350 identified targets for a dig reduction of 84%.

Company Overview

Parsons is a technology-driven engineering services firm with more than 70 years of experience in the engineering, construction, technical, and professional services industries.

The corporation is a leader in many diversified markets with a focus on infrastructure, defense, and construction. Parsons delivers design/design-build, program/construction management, systems design/engineering, cyber/converged security, and other professional services packaged in innovative alternative delivery methods to federal, regional, and local government agencies, as well as to private industrial customers worldwide.

We conquer the toughest logistical and technical challenges and deliver landmark projects across the globe. Today, Parsons employees are engaged in projects in 29 countries around the world.



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