USA Environmental, Inc.

A Small Business • Munitions Response Services

Professionalism
Responsiveness
Cost Effectiveness

Mission & Capabilities

USA Environmental, Inc. (USA) provides services to government and private sector clients worldwide for characterization and remediation of Munitions and Explosives of Concern (MEC), including Unexploded Ordnance (UXO). Incorporated in 1998 and headquartered in Oldsmar (Tampa Bay), Florida, USA is a **full-service small business munitions response provider**.

The USA Mission is to safely deliver all munitions response and environmental services, anytime, anywhere, with innovative solutions for the benefit of our clients, stakeholders, and the communities we serve.

USA Environmental, Inc. Capabilities



Munitions Response Services
MEC Characterization, Remediation, & Disposal



Operational Range Clearance/Maintenance
Debris Removal, Range Maintenance, & Target Replacement



Construction Support
Integrated MEC Services, MEC Avoidance for Cultural & Biological Surveys



CWM Sampling and Removal
In-field Chemical Warfare Materiel (CWM) Soil Sampling, Investigation, and Removal



Geophysical Services
Digital Geophysical Mapping (DGM), GPS Surveying, & GIS Mapping



Underwater MEC Services
UXO Dive Teams, Underwater DGM, Remotely Operated Vehicle (ROV)



Community Education
Public Involvement & Outreach Using the 3Rs Method; Recognize, Retreat, and Report



X-Ray Technology
In-Field Munitions Identification Using Radiographic Film or Digital Inspection Systems

Corporate Overview

USA performs environmental remediation under North American Industry Classification System #562910. We provide MEC characterization and remediation services, including UXO location, identification, removal, and disposal using the latest technologies in the industry. USA uses a formal and proven review process that identifies, analyzes, and tests proposed innovative solutions for safety, field-worthiness, and effectiveness. To date, USA has safely and successfully completed over $628M of MEC work as both a prime contractor and a subcontractor.

USA employs more than 158 personnel, including all UXO-related labor categories. All of our UXO personnel are graduates of the U.S. Navy Explosive Ordnance Disposal School or a certified training course.

We have performed over 6.1 million field-related manhours on over 850 projects, with 5.8 million of those being MEC-related. USA has comprehensive Safety and Quality Control Programs and maintains a Corporate Health and Safety Plan, which is utilized to develop unique Site Health and Safety Plans for each work site. This attention to quality work and safe procedures has led to an average Insurance Experience Modification Rate (EMR) of 0.83.

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Core Capabilities

Munitions Response Services

USA performs MEC services, both inside and outside the continental United States (CONUS/OCONUS) to identify potential risks and develop appropriate response alternatives to reduce human risks associated with MEC and munitions constituents (MC). By working within an accepted, consistent framework, we are able to streamline project activities, make more consistent decisions, and have the necessary documentation to support those decisions. USA focuses on hazard management choices made during site evaluation and cleanup of MEC under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). In addition, our MEC characterization responses fulfill the National Contingency Plan requirement for site-specific risk assessments under CERCLA.

Examples of our MEC and MC core capabilities include:

- Preliminary Assessments
- Site Inspections
- Remedial Investigation/Feasibility Study (RI/FS)
- Record of Decision
- Remedial Design/Remedial Action
- Remediation and Disposal
- Operational Range Clearance/Maintenance
- Construction Support
- Geophysical Services
- Underwater UXO Services
- Community Education



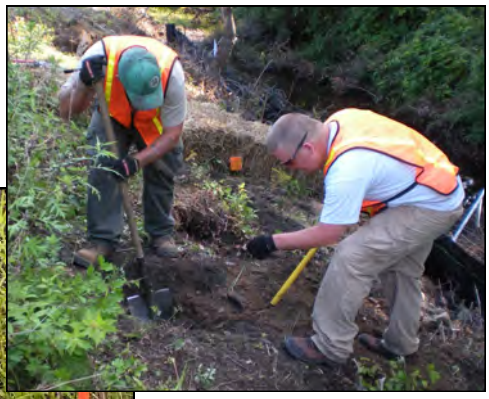
UXO Team with Analog Sensors Performing a Clearance

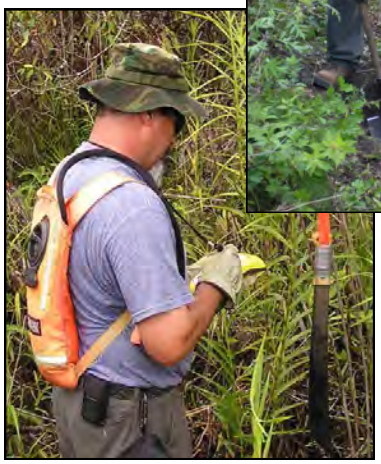


In-field X-ray Showing the Live Detonator of a 2.36 Inch Rocket

Accurate determination of live or practice bombs, mortars, and projectiles makes for safe and efficient UXO operations.

Anomaly Excavation Takes Skill and Patience





In-field Data Entry Using GeoXT™ Technology Reduces Errors

Practice Bombs





Projectiles

81mm & 60mm Mortars



Core Capabilities

Operational Range Clearance/Maintenance



Since our inception in 1998, USA has been supporting DoD's mission to prepare soldiers to fight and win wars by maintaining active ranges. We perform range residue clearance activities and manage complicated schedules and concerns associated with active ranges; operational range clearance (surface and subsurface) of ranges where both non-explosive practice munitions and high explosive (HE) munitions are used; operational range condition assessments; and target and berm maintenance. USA also provides range sustainment services and processing/recycling services at operational ranges. Our experience includes 44 large-scale Range Maintenance projects valued at over $142M including surface/subsurface clearance, target removal/replacements, and construction support.



Working at DoD installations both CONUS and OCONUS, USA has inspected, cleared, processed, and certified more than 40 million pounds of recyclable metal and 9 million pounds of non-recyclable debris screened and cleared for landfill disposal. In the past 5 years alone, USA has certified 3 million pounds of range related debris from the former Vieques Naval Training Range, Puerto Rico, in accordance with the Navy's approach to sustainable environmental remediation.

USA has the in-house expertise and demonstrated practical experience to process live, full-scale, and sub-scale practice munitions and inert practice ammunition and targets. Our process for demilitarization not only meets scrap metal industry and military standards, but also optimizes the recycling value in accordance with the Department of Defense (DoD) Green Procurement Program. In support of our range sustainment services, the USA Team also self-performs horizontal construction to repair roads and remove, build, install, and maintain down-range targets.

Examples of range clearance we have performed:

Yuma, Rakish Litter, AZ – CTO Value: $3M

- Large-scale MEC surface and subsurface range clearance; disposal of 2.8 million pounds of munitions debris (MD), 16,000 pounds of RRD and 141,000 MEC items
- Range residue removal and processing
- Explosive disposal of UXO and Material/Munitions Potentially Presenting an Explosive Hazard
- Successful coordination of fieldwork activities to align with the range access schedule.

Falcon Range, OK – CTO Value: $4M



- Sustained, 4-year range maintenance and range operations project; range residue clearance and disposal/recycling; targets replacement
- Recycling of munitions and target residue
- Range road maintenance, and building maintenance and repairs.

Okinawa, Japan – Value of all CTOs: $16.2M

Sample CTO: KB02

- Operational range clearance at 13 ranges
- MEC surface and subsurface clearance
- Developed plans and procedures to update, repair, and relocate 9 ranges
- Construction support, road maintenance and target installation; berm sifting and relocation, reconstruction and installation
- Close coordination with range control to minimize project schedule delays
- Overcame challenges of remote operations, steep terrain, thick vegetation, and severe weather.





Core Capabilities

Operational Range Clearance/Maintenance

Selected project sites on which we have worked:

- Fort Lewis, WA
- Fort Polk, LA
- Fort Jackson, SC
- Fort Stewart, GA
- Fort Bliss, TX
- Fort Benning, GA
- Fort Gordon, GA
- Yakima Training Center, WA
- Fort Knox, KY
- Fort Gordon, GA
- Fort Dix, NJ
- Fort Hood, TX
- Camp Ripley, MN
- Camp Santiago, PR
- Former Camp Robinson, AR
- Pohakuloa, HI
- Fort Benning, GA
- Camp Bullis, TX
- Devens, MA

Services we offer:

- Surface and subsurface clearance
- Material documented as safe (MDAS) and debris management
- Explosive disposal/venting
- Target demolition and recycling
- Target insertion
- Coordination/scheduling with range control to minimize operational training impacts
- Sustained presence and continual operations
- Related activities:
  - ♦ Road/infrastructure construction
  - ♦ Berm sifting and reconstruction
  - ♦ Small arms range renovation and repair



Austere Conditions Make Removal Action Slow



Preparation for Disposal Shot



Small Arms Range Renovations Ensure Safety and Sustainability



Surveyors Plot the Transects for UXO Avoidance During Construction



Target Emplacement on a Remote Island in the Pacific

Excavation and Sifting During Range Maintenance



Core Capabilities

Construction Support

USA performs MEC/UXO avoidance and construction support to both horizontal and vertical construction, biological surveys, cultural and archaeological investigations, and underground environmental investigation activities. There are typically two types of avoidance activities used on sites with suspected munitions. The first is when UXO-qualified individuals escort construction personnel, surveyors, biologists, or other individuals to ensure they do not come in contact with any suspected munitions items while performing their specific non-intrusive activities. The second is when a UXO-qualified individual is checking the subsurface with a geophysical instrument to determine whether there are any potential metallic objects under the surface, and then directing the activity away from the anomaly such as moving a fence pole a few feet one way or another to avoid the anomaly. In addition to the avoidance aspect of construction support, USA provides direct construction support during intrusive activities. If the area is deemed to have a low probability of encountering munitions, UXO support personnel are on-hand to observe the intrusive activities in the event that munitions are encountered. If munitions are encountered, work will stop until the munitions hazard is cleared. If an area is deemed to have a medium-to-high probability of encountering munitions, then construction support is performed by clearing to appropriate depths prior to the construction contractor's intrusive activities, and then resuming previously mentioned support for low probability.



Backfilling the Infiltration Basin and the Storm Pipe System

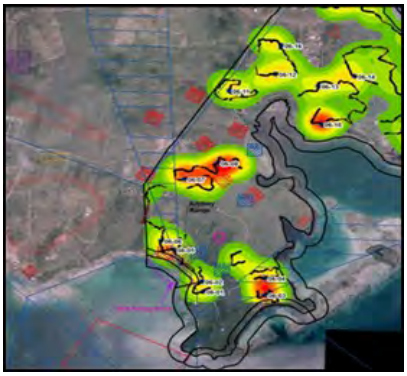
We have provided the following types of construction support and avoidance for projects throughout the U.S. and worldwide: anomaly avoidance for the cultural and biological monitors; UXO avoidance during Hazardous, Toxic, and Radioactive waste investigation and fence construction; and UXO construction support for new range construction, for the installation of underground utilities, building foundations, road building, and other types of earth moving operations in areas suspected of containing munitions.

Geophysical Services



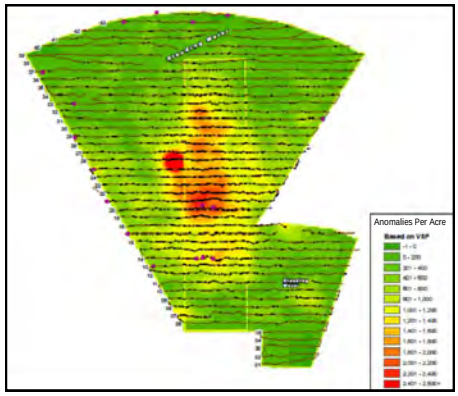
EM61-MK2A in Stretcher Mode

USA provides full DGM services. We perform DGM projects, including the support and use of Vehicular Simultaneous Electromagnetic Induction Land Magnetometer System (VSEMS). We self-perform using the latest electromagnetic and magnetometer sensors, including EM63, underwater EM61, EM61-MK2 or MK2A, and G-858 in single sensor, gradiometer configurations, and towed arrays. USA fields the latest technology with field technicians utilizing Personal Digital Assistant / Global Positioning System (PDA/GPS) data collection tools. Note: USA's custom designed towed array is easily shippable worldwide via FedEx.



DGM Anomaly Density Map

We use Geosoft's OASIS Montaj with UX-Process, the latest Quality Assurance/ Quality Control (QA/ QC) tools, and UX_Analyze for DGM processing and analysis. Our DGM Team is led by USA's Program Geophysicist, who has more than 40 years of relevant experience. USA has another full time and one part time senior geophysicist and a Site Geophysicist on staff. Basic ordering agreements with other geophysical companies provide surge capability.



DGM Anomaly Density Map

Core Capabilities

Underwater MEC Services



USA is a small business leader in locating, assessing, characterizing, and removing MEC from underwater environments. There may be as many as 1 million acres of potentially MEC-contaminated underwater and wetland areas, and contending with underwater MEC can be significantly more complex and expensive than addressing them on land. Thus, both detection and discrimination are crucial components of any underwater search technology, as well as applying a variety of options for completing in-place disposal or removal of these items. USA maintains comprehensive capabilities to address this range of scenarios, including the ability to deploy remotely operated equipment/sensors or utilizing trained and qualified UXO divers.



USA understands the critical elements associated with operating safely and effectively in a dynamic marine environment, including thorough consideration and planning for sensitive marine habitat/endangered species. In addition, USA utilizes remote methods to enhance safety of personnel and the marine habitat, including side scan sonar, autonomous underwater vehicles, towed DGM and magnetometer arrays, as well as ROVs. Our VideoRay ROVs with Smart Tether navigation/positioning system allows both real-time observation and video recording/documentation of underwater environments with accurate GPS positioning.

USA has successfully completed more than 19 underwater projects utilizing the above technologies, covering over 150,000 acres within the continental United States, the Pacific, and the Caribbean.



Underwater Services

- MEC detection, identification, and characterization
- Removal Actions
- Coral Surveys
- Structural Investigations
- Marine Habitat Assessments
- Rapid Responses.

Extensive Capabilities and Experience

- Trained MEC Dive Teams
- Working/Inspection Class ROV Operations
- Wide Range of Experienced Corporate Team Members
- Ability to Operate in Remote/Challenging Locations

Critical Elements and Understanding

- Dynamic Marine Environments
- Consideration and Planning for Sensitive Marine Habitats/Endangered Species
- Safely Operate in Higher Risk Environments.

Inspection Class ROVs



- Operational Depth: Range 1 to 300 ft.
- System contained within 2-3 Pelican cases; minimal pre-deployment lead time and cost
- Smart Tether navigation system for accurate underwater GPS location (5-ft accuracy)
- Integrated 900-kHz sonar for low visibility maneuvering
- Not restricted to any bottom time limitation; effectively operates in currents of 2 to 3 knots
- Video documentation of marine environment in proximity to encountered MEC
- Real-time video of underwater operations
- Access to very shallow waters and the ability to safely maneuver around corals.

Technology Advantages

- Cost Effective
- Wide Area Assessment
- Ability for stakeholders to view and gain perspective of underwater sites/conditions
- Real-time Observations for Quality Control
- Enhanced Safety of Personnel
- Protection of Sensitive Marine Habitat.

Other Underwater Survey and Investigation Systems



- Towed Camera
- Side Scan Sonar
- Magnetometers
- Electromagnetic (EM)
- Single/multi-beam bathymetry
- Working Class ROVs.

Core Capabilities

Community Education for UXO Safety

Over the past 8 years, USA has successfully developed and implemented Community Education programs to educate the public about the potential dangers of encountering munitions. We supported our client, USACE South Atlantic Division (SAD), in taking a proactive approach to prevent accidents on sites with a likelihood for UXO hazards by initiating community education programs. USA was awarded a task order under our WERS contract with the USAESCH to perform community relations work in the vicinity of Formerly Used Defense Sites (FUDS) in Tennessee, Georgia, Alabama, and Florida for SAD to include:

- Former Spencer Artillery Range, TN
- Former Motlow Range, TN
- Former Camp Wheeler, GA
- Former Camp Sibert, AL
- Pinecastle Jeep Range, FL



This work involved presenting community education programs in UXO recognition and safety to local school children at 43 schools within a 20 mile radius of the sites. Training was also provided at public meetings to 27 community organizations including: Police/Fire/Medical Emergency Response personnel, the Chamber of Commerce, County Clerk's Office, Sheriff's Office, Emergency Management Agency, School Boards, County Public Works Office, Boy Scouts, Girl Scouts, Tennessee Forestry Association, and construction companies. Materials were also distributed to local libraries.

The programs developed included different presentations for younger elementary and middle school age children and one for high school students and adults. The programs included a site-specific slide presentation, tailored to each FUDS, with pictures of the types of UXO rounds likely to be found nearby. After the presentations, students took part in a question-and-answer session to demonstrate their understanding of the program. The programs were well-received by students, teachers, emergency workers and members of the community.

USA gave hand-outs with the "3Rs" message (Recognize, Retreat, Report) to the stu-dents, including such items as bookmarks, bracelets, pins, temporary tattoos, post-it note booklets, dog tags, magnets, highlighters, pocket guides, posters, and coloring books for the younger children.

As a complement to the USACE UXO Safety Mascot, Sgt. Woof, USA created a new cartoon character, Roxie, and developed a hub page with two educational websites with interactive games, an interactive e-book, and a video for students.



https://sasweb.sas.usace.army.mil/uxo/

USA has successfully presented community education programs to:

- Over 13,200 elementary, middle, and high school students
- Over 1,900 individuals at community organizations

The Department of the Army has made it a priority to educate military personnel, military families and the public in the vicinity of Army installations regarding the hazards of UXO. In support of this program, USA and our team members are currently working on a pilot program that will enhance and expand UXO safety training through implementation of the 3Rs at four Army installations to include: Camp Shelby, MS; Ft. Bragg, NC; Ft. Bliss, TX; and White Sands Missile Range, NM. Work involves developing site-specific presentations and promotional materials, developing training materials and training the trainers at each location in order to create a sustainable 3Rs program.

USA is also redesigning and updating the current UXO Safety page under the Defense Environmental Network and Information Exchange (DENIX) in order to make it more easily accessible and user friendly. This site provides downloadable 3Rs training materials and handouts. At the end of this pilot program, the Army hopes to roll out the 3Rs Program Army-wide.

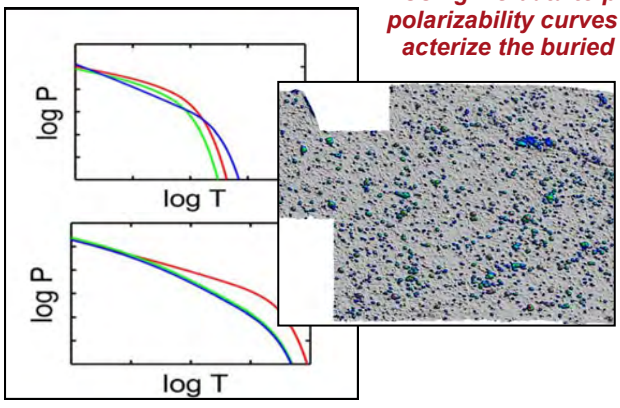
Advanced Technologies and Capabilities

In an effort to keep pace with the need for cost effective technologies, USA employs state-of-the-art technology and approaches to all our project sites. We use a formal and proven review process that iden-tifies, analyzes, and tests proposed innovative solutions for safety, field-worthiness, and effectiveness. The following paragraphs highlight some of these innovative technologies.

Current clean-up methods cannot discriminate between scrap metal and hazardous MEC; as a result, contractors must dig up hundreds of thousands of metal objects in order to identify and remove just a few pieces of MEC. This process is labor-intensive and very expensive. There is no known estimated cost to clean up MEC on known DoD sites. However, Deputy Under Secretary of Defense for Installations and Environment, Dr. Dorothy Robyn, has noted that technologies using Advanced Classification (AC) sensor technologies that can discriminate between MEC and harmless metal objects can reduce DoD's projected cost for MEC cleanup by 75 percent. USA is experienced in collecting AC data with Time-domain Electro-magnetic Multi-sensor Towed Array Detection System (TEMTADS) 2 x 2 x 3 AC sensor, and trained to process and analyze AC data using Geosoft's UX_Analyze.



TEMTADS



Using AC data to produce polarizability curves to characterize the buried object.

USA has been a leader in integrating DGPS and RTK DGPS equipment into the MEC remediation process. We use this equipment to perform project site surveys, to divide sites into manageable work grids, and to record the location of individual MEC items.

For the Engineering Evaluation/Cost Analysis (EE/CA) project at the Waikoloa Maneuver Area, HI, USA evaluated the multigate EM basalt discrimi-nation devel-oped for the EM63 in support of the EM61 MK2 Waikoloa Phase III Geophysical Prove-Out, reliably detecting all near-surface seed items.

Examples of our use of state-of-the-art technology includes the multi-sensor, towed-array system that simultaneously collects both magnetometer and electromagnetic sensor data via VSEMS.



Towed Array

USA, working with Science Applications International Corporation, developed, demonstrated, and deploys this system. USA has worked with this system on eight projects and has found it exceptionally efficient on large-area surveys. USA has also developed a custom EM61-MK2A towed Array that can be packed and shipped worldwide by FedEx, and uses a locally available tow vehicle.

Range Master, an armored, remote controlled excavator, with integrated power screen was developed and demonstrated for Environmental Security Technology Certification Program. Range Master is designed to remotely and safely clear MEC, buried down to 18 inches, from heavily contaminated target impact areas.



Range Master

Another example of our use of advanced technology is the TAZ I" system. TAZ II is armored, tracked-vehicular heavy equipment with an articulating arm to cut vegetation, including on steep slopes. The TAZ II proved invaluable on our $29.4M/4-year Fort Ord project, where it replaced the majority of our manual labor associated with steep slope brush-cutting, thus reducing time and cost and eliminating hazardous work conditions.

CWM and X-ray in the Field

Chemical Warfare Materiel (CWM) Sampling and Removal Services

USA successfully completed CWM projects as a prime contractor at Harmony Church, Ft. Benning, GA and Former Chemical Warfare Service Field Trials Site and Air to Ground Bombing Range, Withlacoochee, FL.

USA also provided CWM support as a subcontractor at multiple sites including Lowry Jeep Training Area, CO; Fort Segarra, Virgin Islands; Former Camp Crowder, MO; Former Camp Sibert, AL; Brooksville Army Airfield, FL; and participated in pre-operational evaluations and inspections for final approval to commence intrusive investigations.



Soil Sampling

- Team members take soil samples following approved procedures
- Samples are then sent to an approved and certified laboratory
- Results of the soil samples are maintained for reporting purposes and inclusion in Final Reports.

Work Party



- Downrange Team arrives at an investigation site to begin operations and performs excavations of suspect anomalies
- Results of excavations are photographed and documented for data entry Chemical, Biological, Radiological, Nuclear, and Explosives PPE includes Occupational Safety and Health Administration OSHA Levels A - D (modified)

Interim Holding Facility (IHF)



- The IHF is a secure facility designed to hold CWM
- The IHF is placed in a sited location and has security fencing with placards and warning signs posted
- Additional security measures may include security guards, alarms, cameras, etc.

X-ray Technology Munitions Response Services

XR150-kv, Single-Package, Pulsed X-Ray Source for Radiographic Examination



- Flexibility based on the user's needs and can be used with:
  - ♦ Conventional radiographic film
  - ♦ Instant radiographic film within 2 minutes
  - ♦ Digital inspection systems immediately
- Flexibility to develop complete radiographic system based on user needs.

The X-ray contains no radioactive material; it produces radiation only when it is pulsing.

Identifying Munitions Using X-Ray in the Field

2.36" HE Anti-Tank Rocket M6

Cone shape indicates anti-tank rocket



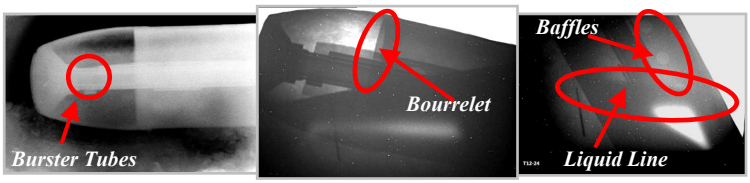
- Cone with inert filler/no detonator indicates a practice round
- Cone with detonator (shown right) indicates high explosive.





4.2" Mortar

The following X-rays show a series of 4.2" Mortars depicting the noted features: Burster Tubes; the Bourrelet (the ring near the nose of the mortar which supports and aligns the mortar with the center of the barrel), Baffles; and Liquid Line indicating a possible chemical-filled munition.



USA Environmental, Inc.

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Construction Support

MEC Avoidance for
Construction Projects
Cultural & Biological Surveys

Underwater Capability

Underwater MEC Support
Dive-Certified Technicians
Remotely Operated Vehicle (ROV)





Community Education

Public Involvement and Outreach
Public Education Programs
On-Site Training



USA Environmental
Corporate Office,
Oldsmar, FL

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USA Environmental, Inc.

Advanced Technologies & Capabilities

Underwater MEC Operations





In-Field X-Ray Technology

Remote Site Operations





Chemical/ Radiological Operations

Shielded Excavation





DGM Towed Array

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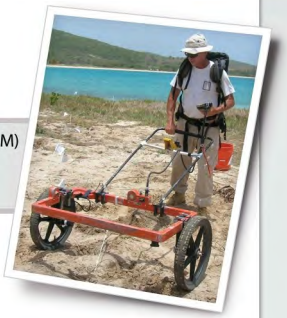


Munitions Response Services

MEC Characterization
Remediation
Disposal

Geophysical Services

Digital Geophysical Mapping (DGM)
GPS Surveying
GIS Mapping





Range Sustainment

Debris Removal
Range Maintenance
Replacement of Targets



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Corporate Office,
Oldsmar, FL

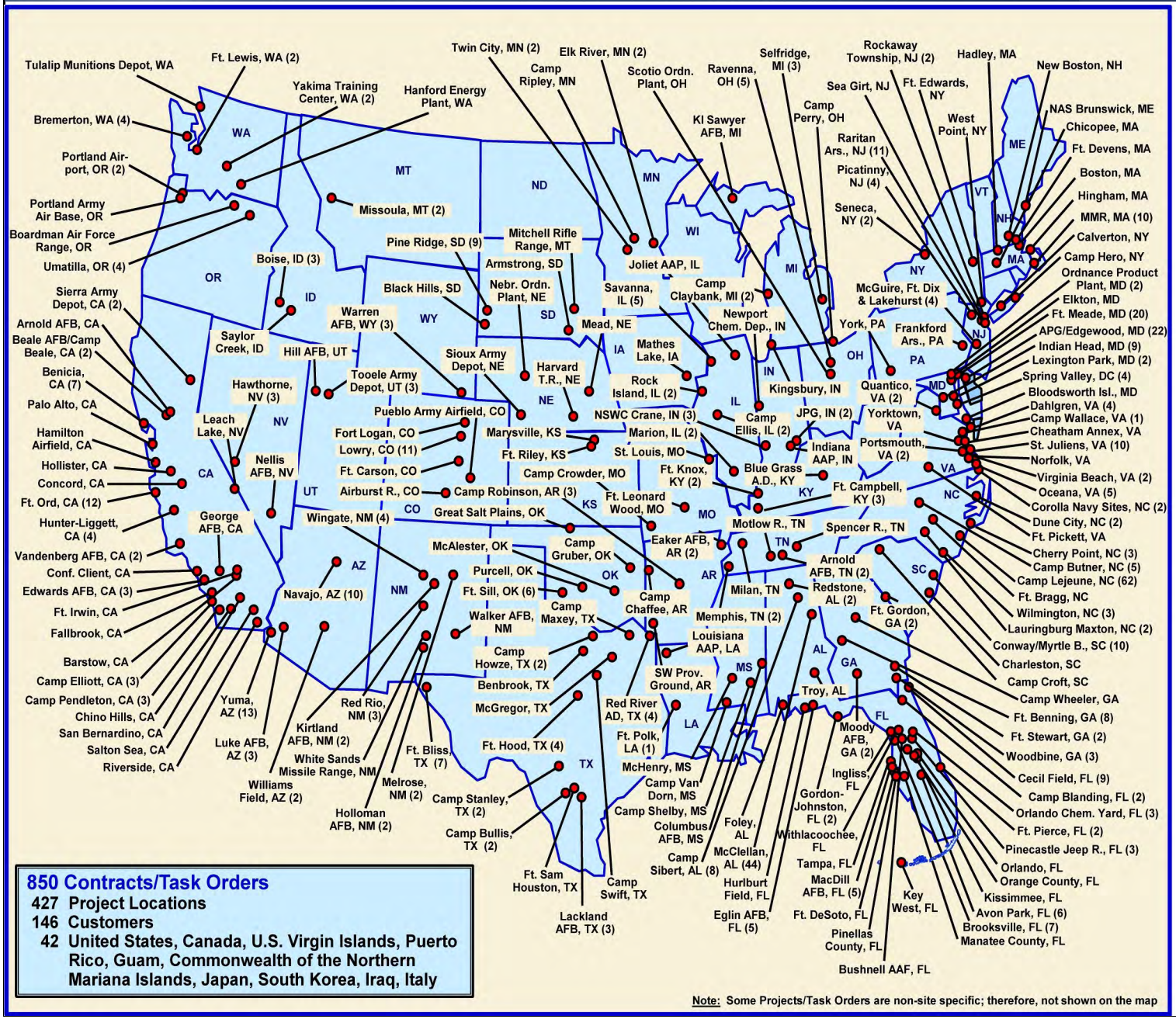
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USA Environmental, Inc.

A Small Business • Munitions Response Services

Munitions Response Services Project Sites

Professionalism
Responsiveness
Cost Effectiveness



850 Contracts/Task Orders
427 Project Locations
146 Customers
42 United States, Canada, U.S. Virgin Islands, Puerto Rico, Guam, Commonwealth of the Northern Mariana Islands, Japan, South Korea, Iraq, Italy

Note: Some Projects/Task Orders are non-site specific; therefore, not shown on the map

OCONUS Projects

Pub. #001, Revised Oct. 2016

Safety is Our #1 Priority

USA has performed over 7 million field-related man-hours on projects with:

- ***Zero OSHA reportable accidents or incidents involving explosives or dangerous material;***
- ***Zero government / regulatory safety violations***

USA maintains an average National Council on Compensation Insurance EMR of 0.83 for the past 10 years, outperforming the industry standard of 1.00. USA Environmental has a comprehensive and effective Safety Program. This program is designed to protect our employees, other site personnel, and the general public. From senior management to every individual working in the field, we are all active participants in USA's Safety Program. The Safety Program, which consists of Safety Officers and certified safety professionals, ensures all of our field operations adhere to our Corporate Safety and Health and Site Work Plans, maintain our Standard Operating Procedures, and make aware all safety concerns and any accidents/incidents in a timely manner.

Our safety professionals possess a detailed understanding of the OSHA, DoD, USACE, Naval Facilities Engineering Command (NAVFAC), and other applicable regulatory requirements and safety standards. USA has an open-door policy that all personnel can use to voice safety concerns; requires that all employees be committed to performing work in accordance with safe work practices; and has empowered all employees to stop work, without retribution, to voice safety concerns or issues.





Quality Control (QC) / Quality Management (QM)

The goal of USA's Quality Management Program (QMP) is to safely deliver quality services to our customers on schedule and within budget. The success and effectiveness of our QMP is due to our understanding of quality standards, our integrated approach to quality planning and design, an effective quality training program, and enforcement and monitoring practices. USA's QMP is a dynamic program that is continually updated to keep pace with the technological advances and changes taking place in the munitions response industry.

USA's QMP is a formal program designed to ensure we provide staff and field employee management with policies and procedures for performing and delivering quality service to our clients.

When required, USA prepares a site-specific work plan and quality control plan. Listed at right are some of the key Quality Standards USA incorporates into its quality programs and plans.

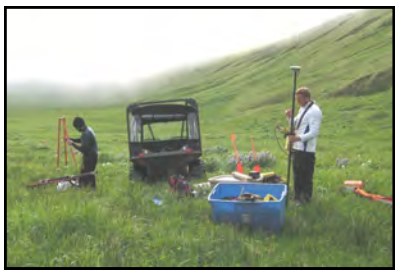
Planning and Design—Our comprehensive Corporate QMP forms the foundation for all Site-Specific Quality Control Plans. Our Corporate Quality Control Manager and UXO Quality Control Specialist (UXOQCS) personnel actively participate in development of each site-specific Work Plan.

Training—USA uses only personnel who meet or exceed federal qualification standards. For personnel assigned to quality positions (e.g., UXOQCS), USA conducts formal Quality Management Training at its corporate headquarters. In addition to these requirements, USA performs site specific training per project.

Quality Awareness—On each project, we conduct an onsite daily safety briefing. At these meetings USA identifies specific quality considerations for that day's operations and quality issues and concerns arising from QC Inspections.

Prime Contracts

Munitions Clearance Non-Time Critical Removal Action, Adak, AK

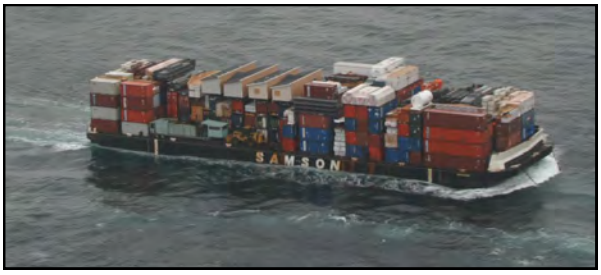


In 2012, USA was awarded the Munitions Clearance Non-Time Critical Removal Action, Adak Island, Alaska from NAVFAC Northwest as a small business prime contractor. USA has a successful track record at Adak and performed identical work during the 2006 and 2008 field seasons. More current work includes munitions clearance in three Remedial Action Areas (RAAs), RAA-02, RAA-03, and RAA-04, in Operable Unit B-2 totaling more than 350 acres. Adak Island is extremely remote and austere with limited (twice weekly) access by plane and no regular barge service. Logistics, mobilization and demobilization presented unique challenges, as well as utilities on-island being sporadic throughout the field seasons. In order to be prepared, USA worked months in advance shipping all site equipment, vehicles, supplies, materials, and generators via barge. Due to the colder weather, the field season typically runs from mid-May through the beginning of November.





At the end of two field seasons on Adak, RAA-02, RAA-03 and RAA-04 are certified as complete and require NOFA. USA has completed investigations at 87,095 targets, recovered/disposed of 3,177 MEC/MDEH (Material Documented as an Explosive Hazard) items and inspected/certified/verified over 40,000 pounds of MDAS. Over 180,000 man hours were worked, with over 350 acres cleared and certified. Sixteen contract modifications were completed with a total project budget of more than $18 million dollars.



Range Sustainment, MMR, Env. Compliance & Rem. Services (RS2)

In 2012, USA was awarded the Range Sustainment, Military Munitions Response, Environmental Compliance and Remediation Services Multiple Award Contract from NAVFAC Atlantic. USA was one of three successful bidders who received an award. The services to be provided are range sustainment, such as range residue clearance and processing/recycling of conventional munitions, Chemical CWM, and other materials as necessary, to permit lands and waters to be safely and efficiently used for their intended purpose at sites in CONUS and OCONUS.

To date, USA has been awarded eight task orders totaling over $12 million dollars within the NAVFAC Atlantic and Pacific Assessing Official Representative. The first task order was issued from NAVFAC Washington for a TCRA for surface and subsurface munitions clearance across 203 acres at Marine Corps Base Quantico, Lunga Recreational Area. Examples of other task orders awarded include performance of Aerial DGM at the Pinecastle Bombing Range, Astor, FL; soil removal and stabilization at ranges located on Naval Activity Puerto Rico, Ceiba, PR; munitions screening and clearance of 22,478 cubic yards of dredged spoils at Combined Disposal Facility, Waipio Peninsula, Pearl Harbor, HI; and surface and subsurface clearance of munitions at the Outlying Landing Field Barin site in Foley, AL.



Prime Contracts

Munitions Response Services, CONUS/OCONUS

In February 2004, USA was awarded a contract from the U.S. Army Engineering & Support Center, Huntsville (USAESCH) for Munitions Response Services and Other Munitions Related Services within the Continental United States and worldwide. This acquisition replaced the USAESCH $200 million/5-year Ordnance & Explosives Services contracts under which USA had been awarded a contract in 2000. With a shared ceiling value of $2.175 billion, USA performed 27 ordnance clearance task orders at multiple sites in 13 U.S. states, Puerto Rico, Japan, and Iraq.

Task Order Examples Performed Under This Contract:

Safety Support/Construction Support, Raritan Arsenal, NJ, 2009

USA provided safety support and subsurface clearance for construction activities under three separate mobilizations, at the former Raritan Arsenal, Raritan, NJ.



MEC Reconnaissance, Alaska, 2008

USA performed MEC Range Reconnaissance Surveys at Ft. Richardson and Ft. Greely, AK. We provided planning documentation including a work plan, performed historical data review (or archival searches), conducted interviews with range personnel, performed field reconnaissance surveys, and produced a final report. For this project, USA used an innovative approach by interfacing the Trimble Pathfinder Pro XR DGPS with a PDA (Compaq IPAQ 3700) running ArcPad 6.0, which included site aerial photographs, pre-planned idealized reconnaissance transects, property boundaries, and points of interest.



MEC Support, USACE South Atlantic Division, 2007

Under a single task order, USA received multiple subtasks including Time-Critical Removal Actions (TCRAs) at various sites at the Pinecastle Jeep Range, FL. At the Odyssey Middle School on Pinecastle USA mapped 10 acres using DGM, performed a surface clearance around the school area, and implemented institutional controls as well as environmental sampling. Under this task order, USA also performed educational support under USAESCH's community outreach program at several schools in the surrounding areas. To date, USA has successfully presented community education programs to over 13,200 elementary, middle, and high school students and 1,900 individuals at community organizations.



Odyssey Middle School at the Pinecastle Jeep Range, Florida

RI/FS, USAESCH and USACE, Honolulu District , 2004

Project objectives for these task orders included: Define current and future land use, delineate MEC and MC throughout the site, conduct risk assessment for MEC and MC, and recommend either a No Further Action (NOFA) or Remedial Action decision. USA performed a site characterization followed by field investigation and revision of the Conceptual Site Model and Remedial Investigation Results. USA also utilized our innovative technology, the PDA/DGPS data collection tool on this project.

Prime Contracts

Munitions Response Services

Task Order Examples Cont'd:

RI/FS, Culebra Island, Puerto Rico, USAESCH and USACE Jacksonville District, Florida



For this complex project, USA successfully investigated six Munitions Response Sites covering 3,746 acres, of which 678 acres were conducted underwater (UW). Culebra is a remote island situated 23 miles offshore from the main island of Puerto Rico, and was used extensively for military training from 1914 until 1975. The multiple MRSs contained dense vegetation and steep terrain, with a significant number of critical habitat areas and threatened or endangered species, both on land and underwater. USA completed 236.10 acres of a Terrestrial DGM survey. Geophysical mapping was conducted and selected anomalies were intrusively investigated. To investigate the UW acres, USA effectively employed a combination of technologies in a multi-phase approach.



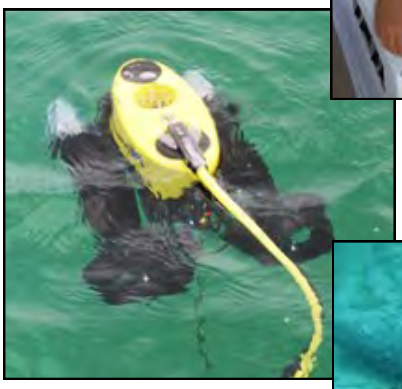


USA completed an UW Environmental Baseline Survey consisting of an International Hydrographic Organization Order I survey, with both visual and side-scan sonar, utilizing our Remotely Operated Vehicle with video cameras and side-scan sonar capabilities.



UW DGM was done covering 19.34 miles of transects utilizing the UW EM-61. UW Intrusive investigations, utilizing UXO divers with UW EM-61 and UW analog detectors was performed to reacquire and investigate geophysical anomalies. MC sampling was conducted with USA collecting a total of 90 soil, sediment, and surface water samples during the terrestrial RI. During the UW RI, 44 marine sediment samples were collected. Groundwater samples were collected from existing wells on Culebra and from two monitoring wells installed by USA.







Prime Contracts

Worldwide Environmental Remediation Services (WERS)

- 27 Task Orders to date
- Underwater Task Orders
- Multiple Sites in 12 States and Puerto Rico
- Range Reconnaissance
- Range Modernization Construction Support
- Data Collection / Analysis
- RI/FS for Chemical and Conventional Munitions
- Work Plans & Final Reports
- UXO Clearance
- UXO Education

In 2010, USA was awarded the WERS Contract from USAESCH as a small business prime contractor. This acquisition replaced the USAESCH Munitions Response Services, CONUS/OCONUS under which USA had been awarded a contract in 2004. With a shared ceiling value of $2.175 billion, USA has been awarded 27 task orders to date at multiple sites in the U.S. and Puerto Rico.

Task order examples performed under WERS:

Removal Action, Ft. Stewart, GA and Ft. Jackson, SC

At Ft. Stewart and Ft. Jackson, USA completed geophysical mapping, identification of MEC contamination, and MEC clearance and removal actions on three military training range sites, totaling 92 acres. This project rendered the training range sites safe in order that new training ranges could be constructed.

Removal Action/Construction Support, Scout RECCE Range (SRR), Ft. Bliss, TX

Valued at over $2 million, USA performed this Removal Action/Construction Support for the 228-acre proposed SRR located at Fort Bliss, Texas/New Mexico. As part of the project's phased-in-approach mandated by the Installation and the range Construction Contractor's schedule, USA's MEC field team had 30 calendar days to complete the clearance of the designated construction footprint ahead of each construction crew, maintaining a safe distance between MEC work and range construction activities. USA successfully employed the Phase-In-Approach and maintained a safe distance between MEC teams and the range construction crews. Through open communication and close coordination with the Government, USA successfully mitigated all potential risks associated with cost, quality, and the rigid schedule. USA commenced and completed all RA fieldwork approximately 3 months ahead of schedule.

RI/FS, Culebra Island Site, Puerto Rico

For this nearly $6 million RI/FS, USA provides the overall project management, including constant coordination with various project stakeholders including USAESCH/Corps of Engineers, South Atlantic Division, Jacksonville District, Puerto Rico Environmental Quality Board, Puerto Rico Department of Natural and Environmental Resources, U.S. Environmental Protection Agency, National Oceanic and Atmospheric Administration, and U.S. Fish and Wildlife. In addition, we provide community relations support to USACE and the Culebra Remedial Advisory Board. The terrestrial fieldwork consisted of site preparation activities; geophysical and intrusive anomaly investigations; environmental sampling; MEC disposal operations; MDAS, range debris, and cultural debris disposal and certifications.

RI/FS, Former Chemical Warfare Service Field Trials Site and Air to Ground Bombing Range, Withlacoochee, FL

The Withlacoochee site covered approximately 18,240 acres where USA performed a $5.8 million CERCLA RI/FS that included cutting transects and grids through low-lying forest and swamp lands. USA conducted Technical Project Planning with a team consisting of stakeholders from the USACE, Florida Department of Environmental Protection, Florida Forestry Service, and the Florida Fish and Wildlife Conservation Commission to determine the approach for conducting the RI/FS and develop data quality objectives. The RI was planned to adequately characterize the munitions response area for the purpose of developing and evaluating effective remedial alternatives. The characterization was designed to find the nature and extent of hazards and risks related to MEC and MC. The RI included the following investigative activities: geophysical prove-out; brush clearing; and geophysical mapping of transects and grids; investigation of geophysical anomalies on grids; and the collection of soil, surface water, sediment samples for chemical analysis. USA successfully prepared and conducted a chemical "Table Top Exercise" in accordance with DoD guidance and regulations.



Prime Contracts

Fort McClellan, AL

USA has been performing MEC services work for the McClellan Development Authority from 2007 through 2009, and was subsequently awarded another 5-year Master Services Agreement at Fort McClellan in Calhoun County, Alabama. This contract is administered by Matrix Environmental Services, responsible for oversight/management of the project.

Services under this contract involve surface sweep in advance of brush removal, aggressive surface clearance (to 6-inch depth), clearance to 1 foot, and clearance to depth. To date, aggressive surface clearance has been conducted over 763 acres with clearance to 1-foot depth accomplished over 235 acres with a surface sweep of another 501 acres. Types of ordnance removed at McClellan include 3-inch Stokes mortars, 75mm shrapnel, 37mm high explosive, 37mm AP, 37mm AP-T, 2.36-inch and 3.5-inch rocket high explosive anti tank (HEAT), 60mm mortar HE, 60mm mortar white phosphorus rifle grenade HE and HEAT, slap flares and small arms.

- **24 Task Orders**
- **Over 1 Million Digs**
- **Safely Removed Over 4,700 MEC Items**
- **Removed 186,000 lbs. of Munitions Debris**
- **Removed 114,500 lbs. of Refuse Debris**

The teams also had to contend with ammunition cans, belted machine gun ammunition, M1 carbine clips, jeep and car body targets, K and C ration cans, mobile rifle target track and ties, concrete with rebar, signs, sign posts, bivouac trash, and nail pits.

In August 2009, USA proposed the use of X-Ray technology to distinguish high explosive 2.36-inch rockets from practice rockets. The use of X-Ray allowed 291 MEC items to be reclassified as MD. The elimination of these items from the demolition cycle saved significant field time for the demolition teams and for the removal teams.

For our superior performance at Ft. McClellan, the Calhoun County Commission and City of Anniston presented USA with a Certificate of Appreciation for outstanding service and allegiance to the community for our work at Fort McClellan.


Calhoun County Commission & City of Anniston

Certificate of Appreciation

Presented to

USA Environmental, Inc.

For outstanding service and allegiance to the community in the development of McClellan

Presented this 24th day of November, 2008

Gene D. Robinson
Gene D. Robinson
Mayor - City of Anniston

James Eli Henderson
James Eli Henderson
Chairman - Calhoun County Commission



Prime Contracts - IRAQ

Captured Enemy Ammunition (CEA)



- Over $250M of task orders with the USAESCH. This first task order focused on the collection and destruction of CEA.
- USA safely located, identified, and disposed of over 251,000 UXO items and 52,549 short tons of munitions. Follow-on task orders described below.

Coalition Munitions Clearance (CMC)



- Large, multi-requirement, 2-year task order.
- USA received or destroyed 59,250 short tons of CEA and retained 9,600 short tons at one of the CMC Depots for the Iraqi Army. The other two depots were successfully closed.
- USA also managed ammunition supply points/collection points and provided related security, as needed.

Defense Intelligence Agency (DIA)



- Performed UXO support under two subcontracts at Camp Slayer over a 2 year period, the first with the DIA, the second directly with Camp Slayer. Services ranged from UXO avoidance to identification of unconventional warfare explosive devices.
- The projects required 24-hour/day, 7-day/week response.
- Organized an in-depth UXO training class for over 1,400 personnel, which was used by more than 30 military and civilian organizations and two foreign countries.

International Operating Center Support

- USA assisted the program Accountable Officer by helping with operations, maintenance, inventory, document preparation, issuance and receipt of the CMC program weapons, Quality Assurance & Contractor Surveillance, HR requirements, compliance, quality assurance checks, and the collection of project execution data.



Mobile Teams Iraq

- Performed as prime contractor for USAESCH for 1.5 years for the reduction of surface Improvised Explosive Devices. USA's role was Project Management, including UXO Operations, Cost/Schedule Control, Logistics, and Safety and Quality Programs.



- Worked at 34 sites with site assessment visits done on 80 additional sites; located and destroyed 669,057 UXO items, as well as received, stored, issued, and transported explosives.
- USA hired approximately 120 local nationals, averaged 150 convoys per month, and employed a total of 174 UXO, Ammunition and Security Personnel.

Restore Iraqi Oil (RIO)

- In support of the RIO program, USA rapidly deployed 29 UXO personnel ready for work in Iraq within 20 days from notice to proceed.
- Conducted MEC clearance and demining operations during the initial phase of the oil field restoration efforts and provided UXO escort for oil field personnel during evaluation and repair operations.
- 14,950 MEC items were located and destroyed. We cleared numerous oil facilities, including gas/oil separator plants in both the southern and northern Rumalia oil fields.



- USA personnel cleared over 500 feet of minefield lanes and destroyed over 150 anti-tank and anti-personnel landmines.

Iraq Construction Support



- Subcontracted under a contract with the Air Force Center for Engineering and the Environment to provide UXO support during the destruction and reconstruction phase in Iraq. Services included construction support, visual searches, facility inspections, and surveys of excavation sites. Also, identification of MEC, ingress/egress routes for buildings/facilities, and safe avoidance of MEC during construction operations.

Prime Contracts

- ☑ Former Sunflower Army Ammunition Plant Explosive Decontamination and Removal of Outside Sewer Lines (Awarded 2016)
  Client: U.S. Army USACE, Kansas City
- ☑ Falcon Range Operations and Remediation Services (2 Contracts) (Awarded 2012 and 2016)
  Client: Department of the Air Force
- ☑ Environmental/Ordnance Activities at Various Locations within the Pacific Ocean Division Area of Responsibility (POD AOR) (Awarded 2016)
  Client: U.S. Army Environmental Command
- ☑ Range Sustainment and Remediation Env. Multiple Award Contract (RSR EMAC II) (Awarded 2016)
  Client: U.S. Navy, NAVFAC SW
- ☑ Environmental Remediation Multiple Award (ERMA) (Awarded 2012)
  Client: U.S. Army Environmental Command
- ☑ Range Sustainment, MMR, Environ. Compliance & Rem. Services (RS2) (Completed 2015)
  Client: U.S. Navy, NAVFAC Atlantic
- ☑ Munitions Clearance Non-Time Critical Removal Action, Adak, AK (Completed 2016)
  Client: U.S. Navy, NAVFAC Northwest
- ☑ MEC Remediation Services, Ft. McClellan, AL (Awarded 2012)
  Client: Anniston-Calhoun County
- ☑ Munitions Response Actions (MRA) at Vieques and Other Sites (Awarded 2010)
  Client: U.S. Navy, NAVFAC Atlantic
- ☑ Worldwide Environmental Remediation Services (WERS) (Awarded 2010)
  Client: U.S. Army Engineering & Support Center, Huntsville (USAESCH)
- ☑ Munitions Response Contract (MRC) (Awarded 2005)
  Client: U.S. Navy, NAVFAC Pacific
- ☑ Munitions Response Services (MRS), CONUS/OCONUS (Awarded 2004)
  Client: U.S. Army Engineering & Support Center, Huntsville (USAESCH)
- ☑ EOD Support, Camp Slayer, Iraq (Completed 2005)
  Client: Camp Victory, Iraq
- ☑ UXO Escort Support Services, Iraq (Completed 2005)
  Client: Defense Intelligence Agency

Key Subcontracts

- ☑ Comprehensive Long-Term Environmental Action Navy (CLEAN) Programs
  (Awarded 2008, 2011, 2012, 2015) *Client: CH2M Hill*
- ☑ MSA for MEC Support, USACE Omaha
  (Awarded 2013) *Client: H&S Environmental, Inc.*
- ☑ Environmental Remediation Multiple Award (ERMA), US AEC
  (Awarded 2012) *Client: ARCADIS*
- ☑ Environmental Remedial Action (ERAC), CONUS & Worldwide
  (Awarded 2012) *Client: AGVIQ, LLC.*
- ☑ Environmental & Restoration Service Contracts (ERSC), USACE Louisville
  (Awarded 2011) *Client: Plexus Scientific Corp.*
- ☑ MEC Response & Remediation Services Guam and the Pacific Ocean Area, NAVFAC Marianas
  (Awarded 2010) *Client: Unitek Environmental - Guam*
- ☑ Worldwide Environmental Remediation Services (WERS), USAESCH
  (Awarded 2010) *Client: Parsons Infrastructure & Technology Group, Inc.*
- ☑ Range Sustainment Contract, U.S. Navy, NAVFAC Southwest
  (Awarded 2009) *Client: Engineering Remediation Resources Group, Inc. (ERRG)*

USA Environmental, Inc.

A Small Business • Munitions Response Services

Professionalism
Responsiveness
Cost Effectiveness

U.S. & State Government Clients

- Arizona Department of Environmental Quality
- Arizona National Guard
- Camp Victory
- Clay County
- Defense Intelligence Agency
- ESTCP
- Fish & Wildlife Services
- Florida Department of Environmental Protection
- Florida Department of Transportation
- Massachusetts Army National Guard
- Pinellas County Public Works
- Southwest Florida Water Management District
- USAESCH
- U.S. Army, Ft. Hood, TX
- U.S. Army Corps of Engineers, Albuquerque District
- U.S. Army Corps of Engineers, Sacramento
- U.S. Army Corps of Engineers, Ft. Worth
- U.S. Army Corps of Engineers, Omaha
- U.S. Navy, NAVFAC, Atlantic
- U.S. Navy, NAVFAC, Marianas
- U.S. Navy, NAVFAC, Northwest
- U.S. Navy, NAVFAC, Pacific
- U.S. Navy, NAVFAC, Southeast
- U.S. Navy, NAVFAC, Southwest

A&E Firms

- Black & Veatch
- Brown & Caldwell
- J2 Engineering
- Jacobs Engineering
- Kleinfelder
- Pacific Geotechnical Engineers, Inc
- Revis Engineering
- R K Weeks
- Mitsunaga & Associates
- SAIC
- Sea Engineering, Inc.
- Sosa Engineering
- Zapata Incorporated

Defense Contractors

- CMS Defense Systems
- GD-OTS
- Northrup Grumman

Environmental Firms

- Aeorstar
- AGVIQ/CH2MHILL JV
- Albion Environmental
- AMEC Earth & Environmental
- American Integrated Services
- ARCADIS
- Bay West
- Beautiful Environmental
- Bhate
- Brinkerhoff Environmental Services
- Cape Environmental
- CH2MHILL
- CH2MHILL/ Kleinfelder JV
- Coastal Environmental Group
- E2M
- Earth Tech
- Environmental Quality Management
- Guardian Environmental Services
- H&S Environmental
- HDR One Company
- HydroGeologic
- Innovative Technical Solutions
- Lee & Ryan Environmental Consulting
- LEIDOS
- Montgomery Watson Harza
- MT2 LLC
- Osage of Virginia
- Parsons
- PES Environmental
- Plexus Scientific Corporation
- Project Resources
- Roux Associates, Inc.
- S&A Environmental Consultants, LLC
- Stone & Webster
- Terranear PMC
- Tetra Tech/Foster Wheeler
- The Environmental Co.
- Tidewater, Inc.
- Timberline Environmental
- URS Corporation
- World Environmental

Construction Firms

- Actus Land Lease
- AGVIQ
- Beck Construction
- Bovis Land Lease
- COI Enterprises
- Danner Construction Co., Inc.
- Ferreira Construction Company, Inc.
- GeoGreen 21
- Goodson Construction
- Jay Cashman, Inc.
- Laguna
- Palmetto Transportation Constructor
- Phoenix Construction
- PCL Civil Constructors, Inc.
- Progress Energy
- Shannon & Wilson
- Relyant
- Sovereign Consulting
- SW Geosciences
- Terracon
- Tincher Construction
- Turner Construction
- Unitek
- Universe Technologies
- Vitrexco

Other Firms

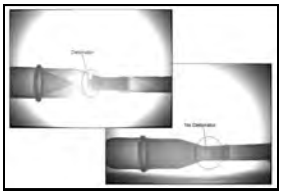
- Basin Research Associates
- BEM Systems
- Bering Sea Eccotech
- CACI
- CDM Federal
- Centex Homes
- DuPont
- Dyncorp
- Edgewood Properties
- Ensafe
- EODT
- ERRG
- Geo-Centers
- GEOFON
- Golder Associates
- HAI Group
- Harley Davidson
- I.E. Pacific
- JPA/Matrix
- Kingsmill Resort
- Lowry Assumption LLC
- Malcom Pirnie
- NAEVA Geophysics
- Native Hawaiian Veterans
- New World Technology
- Project Management Company
- RWP Mechanical
- Spectra / RK Weeks
- Sun American Group
- Textron Systems
- TolTest
- University of Maryland
- University of Nebraska
- Vanasse Hangen Brustlin
- Western Wireless
- Weston
- Woolpert
- WS OPR Investments

International Agencies

- First National Indian Band, Canada
- Defence Construction Canada

Advanced Technologies







Customer Comments

MEC Removal Action, Camp Butner, NC

"Contractor did an excellent job of working with the numerous private property owners on the former Camp Butner. Completing this work has significant public relations challenges due to the fact that the government no longer owns the property. USA staff were always courteous and professional in working with the property owners"... "They completed the removal action effectively, with 100% accuracy and minimized disturbance to the property owners."... "They did an exceptional job and we would be very happy to work with them again." Received from USACE South Atlantic Division, Senior Project Manager

UXO Removal Action, Castner Range, TX:

"Of special note was that this eight-month effort, over 29,496 man hours, was accomplished without explosive related incident or accident or injury...". Letter from Headquarters, U.S. Army Garrison Command

UXO Services in Support of EE/CA at Badlands Bombing Range, Pine Ridge, SD:

"I am writing on behalf of the Oglala Sioux Tribe's Badlands Bombing Range Project. I am writing to say that we have been very pleased that your company, USA Environmental, Inc. has given our UXO Technician Level I's and UXO Sweep Personnel the on-site field training that is needed in order for them to move to the next level." ..."The working relationship that has been established by this Project and your company is a very valuable one. We are appreciative of the fact that you have given Native Americans that opportunity to gain valuable experience by training/working through your company."... "We are especially appreciative of the fact that USA Environmental, Inc. has taken into consideration the cultural aspects of the Oglala Sioux Tribe and has taken steps to be respective of the area in which work has been done." Letter from Project Director, Oglala Sioux Tribe, Badlands Bombing Range


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Cost Effectiveness
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