

2015

SECRETARY OF DEFENSE ENVIRONMENTAL AWARDS



Foreword



Environmental stewardship is important to and remains a top priority for the Department of Defense, particularly in this era of constrained resources and dynamic challenges. Protecting human health and conserving natural and cultural resources assists the Department in better sustaining military readiness. By leveraging sound environmental principles, we increase the availability of land, water, and airspace needed for the National Security Mission.

The Department established the annual Secretary of Defense Environmental Awards in 1962 to honor individuals, teams, and installations for outstanding achievements and innovative environmental practices that increase efficiencies while supporting mission success. The 2015 awards acknowledge exemplary accomplishments from October 1, 2012, to September 30, 2014, in the categories of natural resources conservation, environmental quality, sustainability, environmental restoration, cultural resources management, and environmental excellence in weapon system acquisition.

All 35 of this year's outstanding nominees display an extraordinary commitment to protecting the environment and human health, while proudly serving our country. These Military Service and Defense Agency members and civilians have successfully taken actions to protect and preserve the environment and reduce risk, while supporting training and operations in innovative ways. Their efforts strengthen the Department's position as an environmental leader by integrating cost-effective environmental management with our National Defense Mission, thereby saving critical resources and helping to keep our country safe through sustained mission readiness.

To the 2015 Secretary of Defense Environmental Award winners, I congratulate you on your remarkable accomplishments. You exemplify the best and brightest of our Nation's dedicated environmental leaders and I am consistently impressed by your efforts.

It is my privilege to recognize all awardees and nominees for their exceptional contributions. Their remarkable achievements demonstrate the Department's continued commitment to environmental excellence while protecting the citizens of this great Nation.

A handwritten signature in black ink, appearing to read "Frank Kendall".

Frank Kendall
Under Secretary of Defense
for Acquisition, Technology, and Logistics

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About the Awards

Natural Resources Conservation

The Department promotes the conservation of natural resources, including the identification, protection, and restoration of biological resources and habitats; the sound management and use of the land and its resources; and the promotion of a conservation ethic. Protecting endangered plant and animal species on our installations and other lands we hold in the public trust not only preserves these valuable environmental assets for current and future generations, but also maintains the availability of land to sustain military readiness.

Environmental Quality

The Department seeks to protect air and water quality, manage waste properly, conduct appropriate environmental planning actions, and implement environmental management systems that promote sound environmental practices while continuously improving performance. Meeting or exceeding all environmental requirements not only enhances the protection of our environmental assets, but also sustains our ability to effectively train and maintain readiness.

Sustainability

The Department seeks to extend the longevity of its resources by preventing or eliminating pollution at the source. To achieve this, the Department practices efficiency and sustainability in the use of raw materials, energy, waste, or other resources. Sustainable practices ensure the Department protects the valuable resources that are critical to mission success.

Environmental Restoration

The Department restores land impacted by past defense practices. Through the Defense Environmental Restoration Program, the Department works to restore property at nearly 39,000 sites at active and closed military installations, as well as formerly used defense sites across the United States. Restoring these properties protects military personnel and the public from potential environmental health and safety hazards.

Cultural Resources Management

The Department promotes the protection of our nation's heritage and cultural assets, such as historic sites and districts, archaeological sites, records, historic properties, and sacred sites. Through cultural resources management programs, the Department identifies areas likely to contain historic resources and works to protect these assets for future generations by partnering with Native American Tribes and historic preservation authorities.

Environmental Excellence in Weapon System Acquisition

The Department makes a concerted effort to incorporate environmental, safety, and occupational health requirements into the weapon systems acquisition program's decision-making process. Adhering to these principles enhances the Department's acquisition process by ensuring that weapon systems keep the safety of personnel and protection of the environment a top priority.



Camp Blanding Joint Training Center, Florida Army National Guard, Florida *Natural Resources Conservation, Large Installation*

Camp Blanding Joint Training Center (Camp Blanding) is a 73,000-acre installation located in northeast Florida, with a primary mission to support military training; 42,000 acres are used for military training, forestry operations, wildlife management operations, and public recreation.

Camp Blanding has long been recognized for its successful Natural Resources Conservation (NRC) program. Camp Blanding contains a total of 19 Federal and/or state listed threatened and endangered plant species and 20 animal species. The post is also the home of a groundbreaking coalition studying the control and elimination of disease-causing insects. The study brings together personnel from the Florida Army National Guard (FLARNG), World Health Organization (WHO), United States Navy Entomology Center of Excellence (NECE), U.S. Department of Agriculture, U.S. Air Reserve, Florida Air National Guard, and the University of Florida, amongst others, to conduct a multi-year entomological project with life-saving potential for millions of soldiers and civilians around the world.

Over the past two years, Camp Blanding's NRC program has achieved key milestones, including establishing stable populations of endangered red cockaded woodpecker (RCW) in excess of the targets set for Camp Blanding and successfully negotiating the relocation of state-listed gopher tortoises to suitable habitat on Army Compatible Use Buffer (ACUB) lands. These efforts reduce conflicts between conservation and training goals. The new arrangement also eliminates the need for special relocation permitting, saving Camp Blanding \$10,000 to \$15,000 each year in tortoise management costs.

Camp Blanding's major accomplishments include:

- Established a goal of 25 active RCW clusters to be compatible with the mission and sustainable population; at present, the installation has 29 or 30 active clusters. At a density of 30 or more clusters, FLARNG soldiers will no longer have to undertake any particular mitigation for additional RCW.
- Camp Blanding's Integrated Pest Management Program (IPMP) has great success in its ongoing research initiatives. The IPMP was recently designated a WHO/NECE collaborative center for excellence partner as the only site in the world conducting public health research on insecticide dispersal systems and application techniques to help protect both warfighters and civilians from insect-borne diseases.
- ACUB lands now total nearly 19,000 acres at Camp Blanding. In FY 2013, Camp Blanding dedicated 1,600 acres to gopher tortoise habitat creation to serve as safer recipient sites away from training areas and outside the installation boundaries. This solution eliminates military impacts to the species as well as training restrictions imposed by the tortoises.
- ACUB lands now total nearly 19,000 acres at Camp Blanding. In FY 2013, Camp Blanding acquired 1,600 acres dedicated to gopher tortoise habitat creation and purchased an additional 320 acres in FY 2014.



Camp Blanding partners with the Florida Fish and Wildlife Conservation Commission to conduct aerial ignition prescribed fire projects, which improve both the quality of military lands and the habitats of various species of concern to the Commission.



A Camp Blanding team member works to remove and replace artificial nesting boxes for RCW in live longleaf pine trees.



Robins Air Force Base, Georgia *Environmental Quality, Industrial Installation*

Robins Air Force Base (AFB) is located on 6,935 acres in Central Georgia, adjacent to the City of Warner Robins. Over 23,000 civil service employees, military members, and contractors work at Robins AFB, making it the largest industrial facility in the state of Georgia. The installation has an annual economic impact of \$2.9 billion across the state.

Robins AFB created a model environmental program for DoD through a commitment to environmental excellence, stewardship of community resources, and sustainability of the warfighter. Robins AFB leads the way with one of the most wide-ranging and proactive installation environmental programs in the nation. The Environmental Management Branch efforts are centered on air quality, community relations, hazardous materials (HAZMAT) and waste management, pollution prevention, natural resources, and water quality.

Robins AFB's major accomplishments include:

- Their Qualified Recycling Program (QRP) is a two-time winner of the Air Force Materiel Command (AFMC) QRP Award and is "Winning the War Against Waste" each day. During FY 2014, Robins AFB recycled over 2,200 tons of material and diverted 87.2% of its construction and demolition solid waste from the landfill. Robins AFB generated over \$460,000 in total revenue from the resale of recycled materials.
- Expanding the Transportation Incentive Program by partnering with the Macon-Bibb Transit Authority to establish a base shuttle from neighboring counties to promote clean commuting options and reduce air emissions.
- Trained 1,492 personnel to ensure the workforce understands the importance and value in environmental compliance, conservation, and pollution prevention. The FY 2013-2014 training included: the Environmental Management System; aerospace national emissions standards for hazardous air pollutants; Resource Conservation and Recovery Act hazardous waste procedures; and spill prevention, control, and countermeasures.
- Improved HAZMAT and hazardous waste management by migrating to the Enterprise Environmental Safety and Occupational Health Management Information System (EESOH-MIS). With 331 industrial processes, 8,000 HAZMAT users, and 500,000 annual HAZMAT issues, it was the largest and smoothest transition in AFMC. The migration improved compliance through continual process advances, time-saving distribution efficiencies, and waste reductions.
- A robust water quality program that effectively manages 489 million gallons of well water and 549 million gallons of discharged wastewater per year. With four different types of permits, including wastewater, industrial storm water, municipal separate storm sewer system, and construction storm water, the Water Quality program provides successful, efficient, and safe management of Robins AFB's water.



Natural resources at Robins AFB are shared both statewide and with the local community. Birding trips are held during the annual spring Earth Day events, which facilitate positive community ties. An average of 75-80 species are identified during these events.



Houston County Association for Exceptional Citizens, Inc. is the local contractor who transports recycled goods from the base to the Happy Hour facility for sorting and packaging for resale. Robins AFB fosters community relations through such local and regional partnerships.



Marine Corps Base Camp Smedley D. Butler, Japan *Environmental Quality, Overseas Installation*

Marine Corps Base Camp Smedley D. Butler (MCB Camp Butler) is a leader in enhancing environmental quality while sustaining the Marine Corps' ability to train and maintain readiness in Okinawa, Japan. MCB Camp Butler serves as the base support and provides training areas for III Marine Expeditionary Force (III MEF). III MEF is a rapidly-deployable Marine-Air-Ground Task Force, able to conduct operations ranging from humanitarian assistance to amphibious assault and high intensity combat. MCB Camp Butler is also the command support element for Marine Corps Installations Pacific, which encompasses all Marine Corps Installations in Hawaii, Japan, and Korea. MCB Camp Butler supports over 32,000 active duty military personnel and civilians, and encompasses more than 45,000 acres.

MCB Camp Butler's environmental program proactively supports operational efficiency and mission readiness. Specifically, the installation is able to complete plans and environmental analyses using in-house staff, which saves time and money. In addition, MCB Camp Butler implements extensive natural and cultural resources conservation programs that are critical to not only training on base, but also to effectively manage the land entrusted to the Marine Corps. MCB Camp Butler's numerous partnerships and collaborations with local municipalities and agencies reflect the success of their stakeholder interaction. MCB Camp Butler's environmental program has been instrumental in improving relations between the people of Okinawa and the Marine Corps.

MCB Camp Butler's major accomplishments include:

- Achieved an 18.5% contaminated absorbent (consorb) reduction, resulting in \$14,000 waste disposal cost savings in FY 2014.
- Completed a large-scale cultural resources survey at the Ie Shima Training Facility, marking the first extensive systematic archeological survey to take place at the facility. Such proactive survey efforts allow Camp Butler to make more expedient and meaningful asset and land management decisions.
- Provided assistance to the U.S. Air Force and tenant units to complete erosion control and re-vegetation projects to ensure continued range operations to support the warfighter.
- Implemented the Hawker Battery Reuse Program and generated a cost savings of more than \$220,000 in its first operating year.
- Participated in the Okinawa Environmental Forum, affording the opportunity for MCB Camp Butler and the Okinawa Prefectural Government to come together and share environmental initiatives and projects occurring across the island.
- Achieved a 66% diversion rate of non-hazardous solid waste from the waste stream in FY 2013 by expanding pick-up locations and increasing collection of recyclables.



MCB Camp Butler's innovative soil erosion efforts have been instrumental in protecting this vital coral habitat on the island of Okinawa.



The Hawker Battery Reuse Program was initiated in an effort to reduce waste and the associated costs of disposal. Since the Hawker Battery Reuse Program started in FY13, no conditioned battery has been sent back through the waste disposal process.



Marine Corps Air Ground Combat Center Twentynine Palms, California

Sustainability, Non-Industrial Installation

Over its 63 year history, Marine Corps Air Ground Combat Center Twentynine Palms' (MCAGCC) combined arms training mission has grown into a key component of DoD's strategic training. Past facility expansions and recent initiatives resulted in a premier desert-training installation. MCAGCC requires significant infrastructure resources to accomplish its mission, over 45,000 Marines annually train at MCAGCC, and the base has a civilian and military population of 28,760. This includes operating and maintaining over 1,000 buildings and structures, 11 water production wells, and a one million gallons-per-day wastewater treatment facility. In addition, MCAGCC annually consumes over 450 billion British thermal units of energy, manages almost 15,000 tons of solid waste, and uses approximately 670 million gallons of potable water.

MCAGCC's sustainability program is a collaborative effort between the Natural Resources and Environmental Affairs Division, the Public Works Division, the Center Logistics Division, the local Southwest Regional Fleet Transportation office, outside stakeholders, and the community.

MCAGCC's major accomplishments include:

- Improved energy intensity 32% compared to the FY 2003 baseline, and facility infrastructure improvements provided a cost savings of over \$600,000 per year. MCAGCC completed the installation of a new twin turbine high-efficiency cogeneration facility with two 4.6 megawatt (MW) gas-fired turbines and a heat recovery system designed to feed the current high temperature loop.
- Added 0.75 MW of photovoltaic (PV) power, bringing the total to 5.2 MW of PV power installed at MCAGCC and achieving an annual cost savings of more than \$550,000.
- Reduced potable water intensity by 45% (compared to the 2007 baseline), which is significantly more than the DoD's 26% reduction goal by 2020. In addition, non-potable water intensity decreased by 71%, exceeding DoD's reduction goal of 20% by FY 2020.
- MCAGCC's Hazardous Waste Minimization Program returned approximately \$638,000 in new or unused hazardous material for reuse. Proactive efforts reduced 192 tons of hazardous waste shipped off-site in FY 2014 compared to FY 2013. MCAGCC collected and demilitarized over 5.6 million pounds of range residue and ordnance debris, generating over \$1.26 million in revenue in FY 2014.
- The Headquarters Marine Corps Triennial Environmental Compliance Evaluation reflected MCAGCC's dedication to sustainability efforts. The evaluation concluded with a positive finding for extensive sustainability and pollution prevention efforts.



The desert environment surrounding Twentynine Palms mandates that sustainable approaches be implemented in order for the installation to excel in training Marines.



Cooperation with the community and across the installation is vital to achieving the program goals and mission of the base. MCAGCC Earth Day events, such as this Fun Run, promoted sustainability efforts and initiatives as well as Marine fitness.



Minnesota Army National Guard Sustainability Team, Minnesota *Sustainability, Individual/Team*

The Minnesota Army National Guard (MNARNG) has a presence in 63 communities throughout Minnesota. This includes the 53,000-acre Camp Ripley and the Arden Hills Army Training Site (AHATS), as well as numerous armories, field maintenance shops, and Army aviation support facilities. Camp Ripley is a regional training facility for the military, Federal and state governments, and surrounding communities. The MNARNG Sustainability Team manages environmental stewardship for Camp Ripley, which has long served as a showcase for the compatibility of environmental innovation and excellence with military training.

The MNARNG recognizes that incorporating sustainability into its operations, acquisitions, and infrastructure will help reduce its resource demands, while preserving current and future operational flexibility. By emphasizing energy and water conservation, pollution prevention, waste stream elimination, compliance, and technological innovation, the Team's efforts over the past two years have laid the foundation for a new era in the MNARNG's operations and environmental leadership. In FY 2013, the Sustainability Team went above and beyond, completing the State Sustainability Action Plan and the Joint Sustainability Master Plan, which outline goals and strategies for achieving benchmark reductions in energy use, increasing recycling, promoting carpooling and transit programs, and eliminating waste streams. Sustainability goals are fully integrated into MNARNG operations: the Adjutant General's Campaign Plan emphasizes sustainability projects as core to the MNARNG's mission, particularly in areas related to energy conservation and use reduction; renewable energy production; green construction; and the Camp Ripley Army Compatible Use Buffer.

MNARNG's Sustainability Team's major accomplishments include:

- Issued an Energy Challenge, which was funded through the Qualified Recycling Program, and launched it throughout the State of Minnesota. The goal of this project is to reduce energy intensity at each facility by 3% from the previous year.
- Completed a site specific request for proposals for Camp Ripley, which covers an investment grade energy audit on nearly 1.1 million square feet of building space. The purpose of the audit is to further identify retrofitting and upgrade opportunities that will reduce the training site's energy use and \$1.5 million in annual utility costs. The audit also requires an evaluation of the entire exterior lighting system within the cantonment and possible replacement with light emitting diode fixtures and a dynamic lighting control system.
- Installed solar photovoltaic (PV) and solar thermal arrays at AHATS. This first large-scale 40kW solar photovoltaic and solar thermal array has been an important demonstration of solar energy's potential and provides approximately 6.5% of the electrical needs for the 100,000 square foot maintenance facility.
- Conducted a feasibility study in 2013 for the construction of a biomass heating district for seven primary buildings on Camp Ripley. The plant would use tremendous amounts of wood debris generated on post through forest management, which would offset 91% of the buildings' fossil fuel heating requirements.



This solar PV system at AHATS was designed to provide a significant percentage of the facilities' electrical requirements.



Ground source heat pumps were installed for the new Education Center addition currently being constructed; this type of technology has decreased energy consumption by 45% at similar facilities.



Marine Corps Base Camp Lejeune, North Carolina *Environmental Restoration, Installation*

Marine Corps Base (MCB) Camp Lejeune is at the forefront of DoD's environmental restoration programs. The Base Environmental Management Division uses support from technical, acquisition, and legal professionals across the Naval Facilities Engineering Command organization to expertly manage over 80 active environmental restoration sites on over 4,600 acres. By maintaining collaborative relationships with regulatory agencies and a supportive local community, the team has made tremendous progress in investigating and cleaning up over 900 sites to date, including 49 sites during this achievement period. MCB Camp Lejeune holds quarterly meetings with regulatory agencies and the public to ensure continued progress and communication.

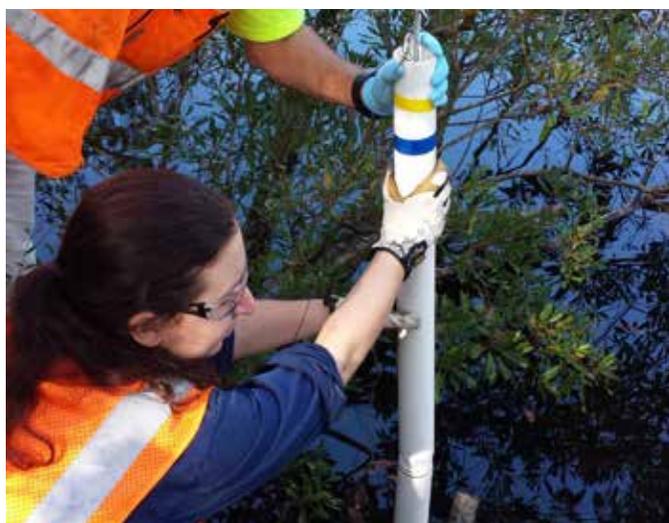
During the current award period, key initiatives included community outreach efforts, supporting the Base's mission to maintain combat-ready Warfighters for deployment and humanitarian missions abroad, and planning for long-term cost avoidance using sustainable solutions. Community outreach efforts included proactive communication with building occupants regarding vapor intrusion, Munitions Response Site Prioritization Protocol scoring of three new Military Munitions Response Program sites, and updating the Community Involvement Plan. Further, investigations prior to military construction for key infrastructure improvements, development of facilities for the Marine Corps Forces Special Operations Command, and new air station hangars supported the Base's mission.

MCB Camp Lejeune's major accomplishments include:

- Achieved remedy-in-place at Site 69, a former waste disposal area containing principal threat wastes, including chemical agent and dense non-aqueous phase liquid. Based on the extraordinarily high costs (over \$24 million) for removal, MCB Camp Lejeune and the Navy worked with regulators and industry energy professionals to design a passive remedial approach, including a 4.6-acre cap that was installed safely within 10 months.
- Successfully collaborated with regulators and landowners for an off-base munitions investigation of over 1,000 anomalies. This investigation reduced the Surface Danger Zone (SDZ) size from 1,600 acres to 176 acres for further evaluation, and helped to ensure continued protection of human health and the environment.
- Reduced the potential for human contact with munitions at the former Defense Reutilization and Marketing Office through a surface clearance and soil sifting operation to remove remaining munitions items. The operation resulted in the removal of over 79 tons of debris, including 24 tons of metallic debris that was recycled, and over 6,000 munitions items.
- Decreased volatile organic compound concentrations by 75-98% at Site 78 within a hot spot of the 300-acre groundwater plume. Since concentrations asymptotically leveled over time (demonstrating a decrease in the pump and treat system's effectiveness), MCB Camp Lejeune re-evaluated the site closeout strategy and initiated the enhanced reductive dechlorination with bioaugmentation treatability study.



MCB Camp Lejeune conducted a phased investigation from 2009 through 2013 to determine if any further action is necessary to protect human health and the environment on approximately 1,600 acres of SDZs.



MCB Camp Lejeune conducted a study in Wallace Creek to evaluate the effectiveness of a Sediment Bed Passive Flux Meter to validate whether the technology can successfully measure the exchange of water between the creek and subsurface.



U.S. Army Garrison Picatinny Arsenal, New Jersey *Cultural Resources Management, Small Installation*

U.S. Army Garrison Picatinny Arsenal (USAG Picatinny) provides effective and efficient installation capabilities and services that support the Joint Center of Excellence for Armaments and Munitions. Nestled in the northern New Jersey highlands of Morris County, within Rockaway and Jefferson Townships, USAG Picatinny's team of over 5,000 staff specialize in the research, development, acquisition, and lifecycle management of advanced conventional weapon systems and ammunition. USAG Picatinny has more than 1,000 permanent structures, including over 60 laboratories, and is situated on 5,853 acres. As one of the largest employers in Morris County, USAG Picatinny employs about 3,900 civilians, 93 military personnel, and over 1,035 contractors.

Through the installation's implementation of Army Alternate Procedures to 36 CFR Part 800 (Section 106 regulations), USAG Picatinny has streamlined its compliance efforts in cultural resources management (CRM). In addition, USAG Picatinny revised its Historic Property Component Plan for 2013-2018, and its Integrated Cultural Resources Management Plan for 2014-2019 to improve consultation on and management of its historic properties.

Using the installation's Real Property Master Plan and Facility Reduction Program Programmatic Agreement, USAG Picatinny executed the following mitigation projects to allow the mission to continue effectively as planned:

- Established historic district viewsheds in GIS to better inform installation planning.
- Instituted historic district signage to educate soldiers, staff, and the public on the installation's historic resources and their significance.
- Documented an installation-wide Cultural Landscape Analysis to understand more about and document the landscape of the former Lake Denmark Naval Ammunition Depot to better inform CRM planning and decision making.
- Displayed a regional traveling museum exhibit with the Morris County Heritage Commission, Rockaway Township Library, Morristown National Historic Park, Parsippany Library, and planned future displays at the Sussex County Arts and Heritage Council, Morris Museum, Sussex County Cultural Affairs and Theater, and the Dover Historical Society.
- Created a Historic District Narrative website that provides descriptive historic building details, plans, and photographs. This website mitigated impacts to historic properties, allowing for installation work to occur two years ahead of schedule. USAG Picatinny received a 2013 New Jersey State Historic Preservation Award for this website. The New Jersey Council of Engineering Companies recognized the RBA Group, designers of the Historic District Narrative website, with a Distinguished Award honoring Picatinny as their client. This is the USAG Picatinny CRP's most recognized historic preservation project to date.



Pre-1918 view of Buildings 3250 and 3316 located at the former Lake Denmark Naval Ammunition Depot, Picatinny Arsenal. USAG Picatinny gathered this photo during archival research as part of a Cultural Landscape Analysis.



Pictured are Jason Huggan and historian Dr. Patrick Owens as they give a tour of the Walton Burial Ground in celebration of Earth Day. Picatinny coordinates cultural resources tours during the year for its workforce and new employees, members of the public, and local organizations.



Dr. Paul R. Green, U.S. Air Force Civil Engineer Center, Virginia *Cultural Resources Management, Individual/Team*

Dr. Paul Green is the Cultural Resources Specialist for the East Region Support Team, U.S. Air Force Civil Engineer Center. His routine duties include program oversight and technical support for two dozen Air Force installations and ranges from Maine to Florida. Additionally, working closely with the Air Force Subject Matter Experts, he provides strategic program direction and develops requirements for his functional area.

In the award period, Dr. Green successfully worked to protect host nation cultural heritage during contingency operations, archaeological predictive modeling, and cutting edge preservation of digital data and original historic engineering documents.

Dr. Green's major accomplishments include:

- Completed the National Historic Preservation Act Section 106 Programmatic Agreement (PA) for the Powder River Training Complex proposal. This PA facilitated the conclusion of the Environmental Impact Statement (EIS) and Record of Decision, thereby establishing the largest military training airspace in the Western Hemisphere.
- Developed cultural property planning data in support of DoD contingency operations in Mali, Libya, Afghanistan, and other countries, and shared the data with military and State Department stakeholders. This data was important in ensuring mission viability in each area with little or no damage to host nation heritage and cultural property.
- Completed, with DoD Environmental Security Technology Certification Program (ESTCP) support, the first DoD demonstration of the effectiveness of archaeological predictive modeling for compliance and planning, including several surface models for Eglin Air Force Base and Fort Drum. This modeling will streamline the installations' approach to environmental compliance and enhance the development of training and test areas for new missions.
- Established the first DoD digital cultural resources data archives for permanent curation. Maintained by the non-profit Digital Antiquity, the solution outsources the complex effort of keeping with technological changes in media storage. This approach ensures that DoD cultural data is permanently maintained and easily accessible to DoD authorized users and, as appropriate, the public.
- Completed the permanent curation of nearly 30,000 historically significant Air Force engineering plans and drawings from the Cold War era. These priceless documents are often the only remaining vestiges of this long struggle between the superpowers, as base closures and demolitions have often removed the physical evidence of the facilities themselves.



As the Cultural Resources Specialist for the East Region Support Team, Dr. Paul Green oversees and assists the CRM programs in his area of responsibility, and supports USAF Subject Matter Experts as necessary.



Dr. Green conversing with Caddo Nation elders at Barksdale Air Force Base, Louisiana. He has experience in tribal consultations in several regions. This experience was critical in developing the Powder River Training Complex PA and EIS.



Halon Extinguisher Replacement Program for Aviation Weapon Systems Integrated Product Team, Redstone Arsenal, Alabama

Environmental Excellence in Weapon System Acquisition, Small Program

This award recognizes the Program Executive Office (PEO) Aviation research and development program for replacing the Halon 1301 charged Handheld Fire Extinguisher (HHFE) that is mounted in Army rotary wing aircraft.

Although this Halon charged extinguisher is a vital part of Army aviation mission safety, it uses a Class I Ozone Depleting Substance (ODS), whose production was banned in 1994 per the Montreal Protocol. The PEO's research and development program supported the Army Acquisition Executive policy for Program Managers to replace ODS when feasible. PEO Aviation tasked the Aviation Ground Support Equipment Product Manager (PM AGSE) with finding a non-ODS, and otherwise environmentally friendly, fire suppression agent/hardware configuration. This non-ODS HHFE had to perform as well as the Halon HHFE and also had to be as near a drop-in replacement as possible.

Mr. Alivio Mangieri (PM AGSE) and Mr. Fred Reed (PEO Aviation) called upon subject matter experts with the Aviation and Missile Command (Mr. Tim Helton) and the Army Test and Evaluation Command (Mr. Kevin Dowell) to spearhead a project team of stakeholders. These stakeholders, including the affected Aviation PM offices, Naval Aviation, the Air Force, the Defense Logistics Agency (DLA), and others, comprise the Non-ODS HHFE Integrated Product Team (IPT). The U.S. Army Aviation and Missile Command also recruited Dr. Joseph D. Mather to assist with the technical effort.

The final development work, over the period of consideration for this award, focused on two blended agents. One is based on ultra-fine sodium bicarbonate (SBCS) powder, and the other on SBCS with nano-scale particles. A similar HHFE cylinder was chosen for consistency, but new hardware (nozzle, valve assembly) was also designed, optimized, and tested.

The non-ODS HHFE agent/hardware development program ran from the summer of 2008 through the fall of 2012. The final design was set from October 1, 2012 through September 30, 2014. The Non-ODS HHFE IPT accomplished the following tasks during this phase:

- Completed over 50 formal qualification tests. The Non-ODS HHFE IPT documented and then corrected test failures in the technical data package (TDP). The team provided the TDP to all stakeholders, and specifically to the DLA (Troop Support) for procurement actions.
- Completed and published specifications for the HFC-227ea/SBCS agent (MIL-DTL-32412) and the new hardware (MIL-DTL-32403) for future procurement/fielding actions.
- The Aviation Engineering Directorate reviewed all test data. In September 2013, the Directorate issued airworthiness approval to use the new non-ODS HHFE on Army rotary wing aircraft.
- Established national Stock Numbers for hardware; the DLA (Troop Support) is procuring the new configuration. A market analysis was completed and a Request for Proposal was solicited on the Federal Business Opportunities website on September 30, 2013.



The Non-ODS HHFE (left) uses the same weapon system bracket that holds the current Halon HHFE (right). This benefit will save many labor hours since a new bracket will not be required when fielding the new fire extinguisher.



The Army Test and Evaluation Center performed hundreds of pan-fire tests during the developmental phase of the program.

Honorable Mentions

Natural Resources Conservation, Large Installation

Marine Corps Air Ground Combat Center Twentynine Palms, California

Joint Base Pearl Harbor-Hickam, Hawaii

Shaw Air Force Base, South Carolina

Environmental Quality, Industrial Installation

Missouri Army National Guard, Missouri

Marine Corps Support Facility Blount Island, Florida

Naval Base Kitsap, Washington

Defense Distribution Depot San Joaquin, California

Environmental Quality, Overseas Installation

Naval Air Facility Atsugi, Japan

Spangdahlem Air Base, Germany

Sustainability, Non-Industrial Installation

Fort Indiantown Gap National Guard Training Center, Pennsylvania

Naval Support Activity Monterey, California

Peterson Air Force Base, Colorado

Sustainability, Individual/Team

Marine Corps Base Camp Lejeune, Resource Conservation and Recovery Section, North Carolina

Mr. Thomas Niday and Mr. Len Sinfield, Naval Base Coronado, California

AFCEC/CZO Red Team, Joint Base Langley-Eustis, Virginia

Green Procurement Program Team, Missile Defense Agency, Alabama

Environmental Restoration, Installation

Cannon Air Force Base, New Mexico

Northeast Cape Formerly Used Defense Site, Alaska

Cultural Resources Management, Small Installation

Marine Corps Base Hawaii

Portsmouth Naval Shipyard, Maine

F.E. Warren Air Force Base, Wyoming

Defense Supply Center Richmond, Virginia

Cultural Resources Management, Individual/Team

Redstone Arsenal Cultural Resources Management Team, Alabama

Mr. Masayuki Yonaha and Mr. Robert Peterson, Marine Corps Base Camp Smedley D. Butler, Japan

Ms. Heather L. Robbins, NAVFAC Mid-Atlantic, Virginia

Environmental Excellence in Weapon System Acquisition, Small Program

Fairchild Air Force Base Environmental Management System Cross-Functional Team, Washington

Judges

Volunteers from private industry, State and Federal agencies, academia, and non-governmental organizations served as judges for the 2015 Secretary of Defense Environmental Awards. The Department of Defense thanks the following individuals for their time and expertise:

Ms. Tracey Adams

Coordinator, Public Lands Program, National Environmental Education Foundation, Washington, D.C.

Dr. Stephen O. Andersen

Director of Research, Institute for Governance & Sustainable Development, Washington, D.C.

Ms. Barb Bottiger, CEP

Senior Environmental Planner, HNTB Corporation, Virginia

Dr. Robert D. Brown

Dean (retired), College of Natural Resources, North Carolina State University, North Carolina

Dr. Terry Childs

Museum Program Manager, U.S. Department of the Interior, Washington, D.C.

Ms. Shannon Cunniff

Deputy Director for Water Programs, Environmental Defense Fund, Washington, D.C.

Mr. Bernard F. Denno, Jr.

Safety Engineer/Deputy Director, Safety, Fire & Environmental Programs, Architect of the Capitol, Washington, D.C.

Ms. Heide-Marie Dudek, P.E.

Project Manager, Remedial Construction, Division of Environmental Remediation, New York State Department of Environmental Conservation, New York

Mr. Jeffrey L. Durbin

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Past Winners

Natural Resources Conservation

2014 Marine Corps Base Hawaii
2014 Eglin Air Force Base, Natural Resources Team, Florida
2013 Naval Base Coronado, California
2012 U.S. Army Garrison – Hawaii, Oahu Army Natural Resource Program Team
2012 Marine Corps Base Hawaii
2011 Eglin Air Force Base, Florida
2010 Fort Custer Training Center, Michigan Army National Guard
2010 Mr. Stephen M. Seiber, Eglin Air Force Base, Florida
2009 Camp Ripley Maneuver and Training Center, Minnesota
2008 Naval Weapons Station, Seal Beach, California
2008 Fort Indiantown Gap Training Center, Pennsylvania Army National Guard
2007 Arnold Air Force Base, Tennessee
2006 Minnesota Army National Guard Natural Resources Conservation Team, Camp Ripley
2006 Marine Corps Base Hawaii
2005 Fort Drum, New York
2004 Columbus Air Force Base, Mississippi
2003 U.S. Army Intelligence Center and Fort Huachuca, Arizona
2002 U.S. Army Transportation Center, Fort Eustis & Fort Story, Virginia
2001 Naval Weapons Station Charleston, South Carolina
2000 U.S. Army Training Center & Fort Jackson, South Carolina
2000 Hawaii Army National Guard
1999 Camp Ripley, Army National Guard, Minnesota
1999 U.S. Army Garrison, Fort Belvoir, Virginia
1998 Fort Stewart/Hunter Army Airfield, Georgia
1998 Naval Submarine Base Kings Bay, Georgia
1997 Marine Corps Base Camp Pendleton, California
1997 Naval Surface Warfare Center, Indian Head, Maryland
1996 Tyndall Air Force Base, Florida
1996 Marine Corps Base Hawaii
1995 Naval Air Warfare Center, Patuxent River, Maryland
1994 Eglin Air Force Base, Florida
1993 Twin Cities Army Ammunition Plant, Minnesota
1992 Marine Corps Base Camp Lejeune, North Carolina
1991 Fort Belvoir, Virginia
1990 Fort Sill, Oklahoma
1989 F.E. Warren Air Force Base, Wyoming
1988 Goldwater Air Force Range, Arizona
1987 New Boston Air Force Station, New York
1986 Beale Air Force Base, California
1985 Robins Air Force Base, Georgia
1984 Fort Huachuca, Arizona
1983 Indian Island Annex, Keyport, Naval Engineering Station, Washington
1982 Fort McCoy, Wisconsin
1981 Tobyhanna Army Depot, Pennsylvania
1980 Fort Huachuca, Arizona
1979 Naval Air Station Chase Field, Texas
1978 Fort Sill, Oklahoma
1977 Griffiss Air Force Base, New York
1976 Marine Corps Base Camp Lejeune, North Carolina
1975 Barksdale Air Force Base, Louisiana
1974 Fort Campbell, Kentucky
1973 Marine Corps Base Camp Lejeune, North Carolina
1972 Marine Corps Base Camp Pendleton, California
1971 Tyndall Air Force Base, Florida
1970 Camp Pickett, Virginia
1969 Marine Corps Base Camp Lejeune, North Carolina
1968 Red River Army Depot, Texas
1967 Fort Rucker, Alabama
1966 Naval Weapons Station Yorktown, Virginia
1965 Tyndall Air Force Base, Florida
1964 Eglin Air Force Base, Florida
1963 Fort Knox, Kentucky

Environmental Quality

2014 Fort Hood, Texas
2014 Environmental Quality Team, Minnesota Army National Guard
2013 78th Civil Engineer Group, Robins Air Force Base, Georgia
2013 Marine Corps Base Camp Smedley D. Butler, Japan
2012 Fort Hood, Texas
2012 Fort Hood Recycle Team, Texas, and Naval Supply Fleet Logistics Center, Pearl Harbor, Hawaii (tie)
2011 U.S. Army Garrison Grafenwoehr, Germany
2011 Defense Supply Center, Richmond, Virginia
2010 Marine Corps Base Hawaii
2010 Mr. Awni M. Almasri, Naval Facilities Engineering Command Europe Africa Southwest Asia
2009 Environmental Management Division, Hill Air Force Base, Utah
2009 United States Army Garrison Bamberg, Germany
2008 Naval Air Engineering Station Lakehurst, New Jersey
2008 Hill Air Force Base, Utah
2007 Tinker Air Force Base, Oklahoma
2007 Marine Corps Base Camp Smedley D. Butler, Japan
2006 Team Dyess, Dyess Air Force Base, Texas
2006 Fort Campbell, Kentucky
2005 Naval Air Depot Cherry Point, North Carolina
2005 Misawa Air Base, Japan
2004 U.S. Naval Support Activity Bahrain
2003 Tinker Air Force Base, Oklahoma
2003 Marine Corps Base Camp Smedley D. Butler, Okinawa, Japan
2002 Air Armament Center, Eglin Air Force Base, Florida
2001 Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility, Hawaii
2001 Marine Corps Base Camp Butler, Okinawa, Japan
2000 Patrick Air Force Base, Florida
2000 Marine Corps Base Hawaii
1999 Indian Head Division, Naval Surface Warfare Center, Maryland
1999 Luke Air Force Base, Arizona
1998 Naval Aviation Depot North Island, California
1998 Fort Sill, Oklahoma
1997 Naval Surface Warfare Center, Indian Head, Maryland
1997 Luke Air Force Base, Arizona
1996 Eglin Air Force Base, Florida
1996 USAF Hurlburt Field, Florida
1995 Robins Air Force Base, Georgia
1994 Fort Campbell, Kentucky
1993 Hill Air Force Base, Utah
1992 Naval Air Station Patuxent River, Maryland
1991 Tinker Air Force Base, Oklahoma
1990 McChord Air Force Base, Washington
1989 Tooele Army Depot, Utah
1989 Vandenberg Air Force Base, California
1987 Pine Bluff Arsenal, Arkansas
1986 Fort Lewis, Washington
1985 Marine Corps Air Station Kaneohe Bay, Hawaii
1984 Luke Air Force Base, Arizona
1983 Fort McClellan, Alabama
1982 Hill Air Force Base, Utah
1981 Marine Corps Base Camp Lejeune, North Carolina
1980 McClellan Air Force Base, California
1979 Fort Sill, Oklahoma
1978 Marine Corps Base Camp Pendleton, California
1977 Marine Corps Air Station Kaneohe Bay, Hawaii
1976 Naval Air Training Center Patuxent River, Maryland
1975 Eglin Air Force Base, Florida
1974 Fort Sill, Oklahoma

Past Winners

Sustainability (formerly Pollution Prevention)

- 2014 Naval Weapons Station Seal Beach, California
- 2013 673d Air Base Wing, Joint Base Elmendorf-Richardson, Alaska
- 2013 Ms. Dorenda Coleman, Arizona Army National Guard
- 2012 Scranton Army Ammunition Plant, Pennsylvania
- 2011 Joint Base Lewis-McChord, Washington
- 2011 The Exchange Corporate Sustainability Program, Army and Air Force Exchange Service, Texas
- 2010 Fleet Readiness Center Southwest, California
- 2009 Naval Air Station Whidbey Island, Washington
- 2009 14th Civil Engineer Squadron Pollution Prevention Team, Columbus Air Force Base, Mississippi
- 2008 Robins Air Force Base, Georgia
- 2007 Marine Corps Base, Hawaii
- 2007 Pollution Prevention Afloat Team Naval Sea Systems Command, Washington, DC
- 2006 Tinker Air Force Base, Oklahoma
- 2005 Commander, Navy Region Mid-Atlantic, Norfolk, Virginia
- 2004 Robins Air Force Base, Georgia
- 2003 Naval Air Station Whidbey Island, Washington
- 2002 Warner Robins Air Logistics Center, Robins Air Force Base, Georgia
- 2001 U.S. Army Transportation Center and Fort Eustis, Virginia
- 2000 Radford Army Ammunition Plant, Virginia
- 2000 HQ III Corps and Fort Hood, Texas
- 1999 Robins Air Force Base, Georgia
- 1999 Marine Corps Base Hawaii
- 1998 Robins Air Force Base, Georgia
- 1998 Fort Carson and Pinon Canyon Maneuver Site, Colorado
- 1997 Corpus Christi Army Depot, Texas
- 1997 Fort Lewis, Washington
- 1996 Robins Air Force Base, Georgia
- 1996 Dyess Air Force Base, Texas
- 1995 Kelly Air Force Base, Texas
- 1995 Naval Construction Battalion Center, Port Hueneme, California
- 1994 Tinker Air Force Base, Oklahoma
- 1993 Navy Aviation Depot, Florida

Environmental Restoration

- 2014 Marine Corps Installation East, Marine Corps Base Camp Lejeune, North Carolina
- 2014 Naval Air Station Cecil Field Base Realignment and Closure Cleanup Team, Florida
- 2013 U.S. Army Garrison Aberdeen Proving Ground, Directorate of Public Works, Maryland
- 2012 Former Mare Island Naval Shipyard, California
- 2012 75th Civil Engineering Group, Hill Air Force Base, Utah
- 2011 Cape Canaveral Air Force Station, Florida
- 2010 Hill Air Force Base, Utah
- 2010 Ms. Regina Dixon Butler, Patrick Air Force Base, Florida
- 2009 Defense Depot, Memphis, Tennessee
- 2008 Seymour Johnson Air Force Base, North Carolina
- 2008 Marine Corps Air Station Cherry Point Partnering Team, North Carolina
- 2007 Dover Air Force Base, Delaware
- 2006 Fort Lewis, Washington
- 2006 Pyramid Lake Torpedo and Bombing Range Remediation Project, U.S. Army Corps of Engineers, Sacramento District
- 2005 Naval Facilities Engineering Command Pacific, Hawaii, and Keesler Air Force Base, Mississippi (tie)
- 2004 Tinker Air Force Base, Oklahoma
- 2003 Hill Air Force Base, Utah
- 2002 F.E. Warren Air Force Base, Wyoming
- 2001 Offutt Air Force Base, Nebraska
- 2000 Elmendorf Air Force Base, Alaska
- 1999 Naval Air Engineering Station Lakehurst, New Jersey
- 1998 Riverbank Army Ammunition Plant, California
- 1997 Naval Air Station North Island, San Diego, California
- 1996 Naval Air Station Cecil Field, Florida
- 1995 Naval Air Station Whidbey Island, Washington

Cultural Resources Management

- 2014 Fort Wainwright, Alaska
- 2013 Marine Corps Air Station Beaufort, South Carolina
- 2013 Ms. June Noelani Cleghorn, Marine Corps Base Hawaii
- 2012 30th Space Wing, Vandenberg Air Force Base, California
- 2011 88th Air Base Wing Civil Engineering Directorate, Environmental Branch, Wright-Patterson Air Force Base, Ohio
- 2011 Cultural Resources Management Team, Eglin Air Force Base, Florida
- 2010 Camp Guernsey, Wyoming Army National Guard
- 2009 Vandenberg Air Force Base, California
- 2009 Fort Drum Cultural Resources Team, Fort Drum, New York
- 2008 Redstone Arsenal, Alabama
- 2007 Mr. Gary M. O'Donnell, Hickam Air Force Base, Hawaii
- 2007 Fort Drum, New York
- 2006 Naval Air Weapons Station China Lake, California
- 2005 Marine Corps Recruit Depot Parris Island, South Carolina, and 15th Airlift Wing, Hickam Air Force Base, Hawaii (tie)
- 2004 Marine Air Ground Task Force Training Command, Twentynine Palms, California
- 2003 Texas Army National Guard Cultural Resources Management Office, Texas
- 2002 Commander Navy Region Mid-Atlantic, Hampton Roads, Virginia
- 2001 U.S. Army Air Defense Artillery Center and Fort Bliss, Texas
- 2000 Fort Riley, Kansas
- 1999 Vandenberg Air Force Base, California
- 1998 Fort Hood, Texas
- 1996 Fort Carson and Pinon Canyon Maneuver Site, Colorado

Environmental Excellence in Weapon System Acquisition

- 2014 Air Force Life Cycle Management Center F-35 Environmental, Safety and Occupational Health Support Team, Wright-Patterson Air Force Base, Ohio
- 2013 Counterfeit Refrigerant Impact Team, Tank Automotive Research, Development and Engineering Center, Michigan
- 2012 Stryker Brigade Combat Team – Warren, Michigan
- 2011 Sustainable Painting Operations for the Total Army, Aberdeen Proving Ground, Maryland
- 2010 Aeronautical Systems Center Environmental and Occupational Health Team, Wright-Patterson Air Force Base, Ohio
- 2008 Fairchild Air Base, Washington
- 2006 C-17 Pollution Prevention Integrated Product Team, Wright-Patterson Air Force Base, Ohio

Special Recognition Environmental Management Systems Implementation

- 2006 Defense Logistics Agency Environmental Management Systems Team



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