

# 2023

## Secretary of Defense Environmental Awards





**Front cover: Kehaulani Lum, president of the Ali'i Pauahi Hawaiian Civic Club, presents relevant historical Hawaiian figures to Rear Admiral Robert Chadwick II, Commander, Navy Region Hawaii and Naval Surface Group Middle Pacific, before a hale, or open shelter, blessing at the ancient fishpond, Loko Pa'aiiau, at McGrew Point Navy housing.**

# FOREWORD



The Department of Defense's (DoD) mission is to maintain a robust military force capable of deterring conflict and ensuring our Nation's security. To succeed in its mission in an increasingly challenging threat environment, DoD must defend against current and anticipated environmental dangers and their effects on individuals, communities, and the Nation. Recognizing the connection between environmental threats and national security, DoD is focused on innovative and comprehensive environmental management strategies to build resilience.

DoD oversees the management of almost 27 million acres of military land, air, and water that contain unique ecosystems and habitats. Preserving this natural infrastructure is critical for providing realistic testing, training, and operational capabilities. Through its strong environmental programs, the Department ensures the accessibility and long-term viability of its ranges and installations while safeguarding Service members, their families, and neighboring communities in the United States and overseas. The Military Departments' key advancements in energy resilience, environmental stewardship, pollution prevention, and climate resilience enable DoD to carry out its mission-essential activities and preserve the trust of the American people.

Each year, the Secretary of Defense Environmental Awards formally recognize Service members and civilians across DoD who made significant strides to conserve the Nation's natural and cultural resources; protect human health and the environment; prevent or eliminate pollution at the source; clean up hazardous substances, pollutants or contaminants, and munitions; and incorporate environment, safety, and occupational health requirements into weapon systems acquisition. The 2023 awards honor installations, teams, and individuals for outstanding achievements occurring from October 1, 2020, through September 30, 2022, in the following categories: natural resources conservation, environmental quality, sustainability, environmental restoration, cultural resources management (CRM), and environmental excellence in weapon systems acquisition.

My sincerest congratulations to the 2023 Secretary of Defense Environmental Awards winners. I commend your dedication and outstanding support to the military mission and the environment.

A handwritten signature in black ink that reads "Brendan Owens".

Brendan Owens  
Assistant Secretary of Defense  
for Energy, Installations, and Environment

**Inside cover: Top Left: Sailors and Coast Guardsmen give back to Hawaiian residents by cleaning the watershed, controlling erosion, and planting taro in Kaneohe's Haiku Valley. Top Right: Marines and sailors gather around a fire during a bilateral jungle training event in Manaus, Brazil. Middle Left: Soldiers participate in a physical training session at Bellows Beach, Hawaii. Middle Right: Army Captain Thelma Teal participates in jungle operations training at East Range, Hawaii. Bottom Left: Soldiers assigned to the 25th Infantry Division Artillery participate in a "This Is My Squad" competition at Schofield Barracks, Hawaii. Bottom Right: Marines and sailors hike back to the airfield in Iwo Jima, Japan, during a trip to learn about the history of the island and pay respects to the troops who fought and died in the World War II Battle of Iwo Jima.**



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## ABOUT THE AWARDS

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### NATURAL RESOURCES CONSERVATION

(Large Installation)

This award recognizes efforts to promote 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; support of the military readiness mission; and the promotion of an ecosystem management perspective. Efforts may include preventing losses to threatened, endangered, and at-risk species; recovering species and their habitats; reducing bird/wildlife aircraft strike hazard incidents; proactively managing for wildfires; reducing and eradicating invasive species; and making landscapes more resilient to ensure access to realistic combat environments while protecting ecosystems and the species that live there.

### ENVIRONMENTAL QUALITY

(Industrial Installation & Overseas Installation)

These awards recognize efforts to ensure mission accomplishment and the protection of human health and the environment in the areas of environmental planning, waste management, and compliance with environmental laws and regulations (e.g., Clean Air Act, Clean Water Act, Resource Conservation and Recovery Act, Safe Drinking Water Act, Toxic Substances Control Act). Meeting or exceeding all environmental requirements not only enhances the protection of our environmental assets, but also sustains DoD's ability to effectively train and maintain readiness.

### SUSTAINABILITY

(Non-Industrial Installation & Individual/Team)

These awards recognize efforts to prevent or eliminate pollution at the source, including practices that increase efficiency and sustainability in the use of raw materials, energy, water, or other resources. The sustainability award also recognizes energy efficiency and renewable energy practices, greenhouse gas emissions reduction efforts, toxic and hazardous chemical reduction efforts, procurement of sustainable goods and services, waste diversion, electronic stewardship, and efforts to plan for adaptation and resilience. Sustainable practices ensure that DoD protects valuable resources critical to mission success.

### ENVIRONMENTAL RESTORATION

(Installation)

This award recognizes efforts to protect human health and the environment by cleaning up hazardous substances, pollutants or contaminants, and munitions in a timely, cost-efficient, and responsive manner. Restoring these sites impacted by past DoD activities protects military personnel, their families, and the public from potential human health, environmental, and safety hazards.

### CULTURAL RESOURCES MANAGEMENT

(Small Installation & Individual/Team)

These awards recognize efforts to promote effective CRM through proactive stewardship of DoD's extensive and rich heritage assets, including archaeological sites, cultural items, the historic built environment, and cultural landscapes. Through dynamic CRM programs that partner with installation stakeholders, such as master planning, public works, and range management, DoD identifies and evaluates cultural resources that impact training, testing, and operational capabilities. Awards also showcase successful partnerships with American Indian and Alaska Native tribes, Native Hawaiian Organizations, states, and other historic preservation stakeholders to protect cultural resources in a manner that sustains mission readiness as responsible stewards of our collective heritage.

### ENVIRONMENTAL EXCELLENCE IN WEAPON SYSTEMS ACQUISITION

(Individual/Team)

This award recognizes efforts to incorporate environment, safety, and occupational health requirements into a weapon systems acquisition program's system engineering, contracting, and decision-making processes. Adhering to these requirements enhances DoD's acquisition process by ensuring that weapon systems programs prioritize the safety of personnel and protection of the environment.



# CAMP RIPLEY, MINNESOTA ARMY NATIONAL GUARD

## *Natural Resources Conservation, Large Installation Award*

Camp Ripley has long been recognized as one of the most ecologically pristine training sites in the nation, sustaining training for the Minnesota Army National Guard on 53,000 acres that also support more than 600 plant species, 233 migratory and resident bird species, 51 mammal species, and 23 reptile and amphibian species; incredible habitat diversity; and 18 miles of untouched Mississippi River frontage. Camp Ripley remains at the forefront of conservation practices while sustaining over 365,000 annual man-days of training. Among recent milestones accomplished at Camp Ripley is the restructuring and technological innovation of the forestry management program. Camp Ripley launched a new forestry viewer on its geographic information system platform, incorporating all past and present timber harvest data, native species, wildlife data, training requirements, and more, all developed in-house with ESRI tools. Camp Ripley has a particularly robust forestry-timber program that generates \$80,000 to \$90,000 each year to fund conservation while expanding training ranges as needed and improving ecological health. The training site has partnered with the National Defense Center for Energy and Environment to host a bat house structure research project; out of that project, a second opportunity arose for Camp Ripley to take part in an Environmental DNA (eDNA) study of turtles. This study enhances ongoing Blanding's turtle conservation efforts. The Natural Resources Conservation program also hosts an annual internship program with Central Lakes College (CLC) that provides students with experience conducting wildlife monitoring surveys and vegetation management.

- Camp Ripley won a \$250,000 award in the Readiness and Environmental Protection Integration Challenge this year to establish resiliency corridors within the Sentinel Landscape footprint. Working with The Nature Conservancy and the University of Minnesota Duluth, Natural Resources Conservation staff mapped natural resources features identifying areas of resiliency that could aid in a regional response to climate change.
- The Integrated Training Area Management program repaired more than 500 acres of maneuver damage in the past two years and has maintained more than 1,000 acres of grasslands used for military training. This work was conducted with the seed collected on the installation.
- Camp Ripley maintains an annual interagency agreement with CLC for summer internships, with interns trained and licensed to apply herbicide treatments. The Land Rehabilitation and Maintenance coordinator oversees this program and creates the workplan for the interns. Through this program, more than 900 acres of invasive vegetation was treated in the past two years.
- The Natural Resources Conservation program manages around 14,000 acres of the installation with prescribed fire each year to reduce hazardous fuel loads; this program also supports ecological and training enhancement applications to promote jack pine and similar species. The Natural Resources Conservation program has also been working with neighboring landowners through the Sentinel Landscape program to enact burn regimes outside of the training site.
- The training site completed construction of three new stormwater infiltration basins. In conjunction with two already in place, these retention ponds will capture 95 percent of stormwater runoff in the cantonment, preventing sediment or other contaminants from reaching the Mississippi River adjacent to the post.
- Camp Ripley took part in an eDNA study of turtles. The installation monitors Blanding's turtles, a state-threatened species, using transmitters to track hatchlings and collect data on habitat use, survival rates, distances travelled, and more. Nests are also monitored each spring and protected from predators and traffic. The eDNA survey is enhancing these efforts, determining presence and absence of turtle species in Camp Ripley's waterways and ponds. With this information, the Natural Resources Conservation program will be even better positioned to identify and preserve habitat now in use by turtles.



*The training site completed construction of three new stormwater infiltration basins; these retention ponds will capture 95% of stormwater runoff in the cantonment, preventing sediment or other contaminants from reaching the Mississippi River adjacent to the post.*



*Camp Ripley took part in an eDNA study of turtles. This study enhances ongoing efforts of Blanding's turtle conservation.*

# MARINE CORPS SUPPORT FACILITY BLOUNT ISLAND, FLORIDA

*Environmental Quality, Industrial Installation Award*



Marine Corps Support Facility Blount Island (MCSF-BI) is a 1,237-acre maritime industrial facility located on the St. Johns River in Jacksonville, Florida. MCSF-BI plans, coordinates, and implements facility maintenance, construction, environmental management, safety, communications/network services, and physical security efforts in support of Blount Island Command's (BICmd) logistics mission. BICmd ensures a high state of readiness of Marine Corps Strategic Prepositioning Programs and provides planning and operational expertise to enable rapid deployment of Marine Air Ground Task Forces. MCSF-BI is committed to environmental excellence and continues to protect the ecosystems under its stewardship, reduce the use of non-renewable resources, and support responsible and sustainable development through the operation of a mature environmental management program. The MCSF-BI Environmental Office, staffed by three professionals with contract support, is responsible for enhancing MCSF-BI's mission readiness through environmental compliance, sustainability, training and education, and natural resources protection programs. Although small, the MCSF-BI Environmental Office has worked successfully with command organizations, tenants, and contractors to efficiently mitigate mission and environmental impacts.

- In 2021, the Environmental Office collaborated with the base operating contractor to improve off-spec JP-5 management. Since the JP-5 is recycled and reused on site, it was determined that it does not need to be managed as waste, including storage in the 90-day hazardous waste storage area. Therefore, the Mayport Base Operating Support contractor no longer collects, handles, or stores off-spec JP-5. Off-spec fuel is collected by the shops in intermediate bulk container totes labeled "Off-Spec JP-5 Fuel for Recycling." Under new procedures, JP-5 recycled on site has been determined not to be a waste stream, streamlining handling and management requirements. Process improvements saved \$117,000 in Fiscal Year (FY) 2022, an increased annual savings of \$45,000 over FY 2021.
- MCSF-BI operates a coolant purification system to filter used antifreeze for onsite reuse. In 2021, the Environmental Office implemented process changes including enhanced labeling of used oil and antifreeze containers, operator training, increased inspections, and purchase of an oil skimmer. These efforts significantly decreased contamination of used antifreeze, resulting in \$31,000 in cost savings in 2022.
- In 2021 and 2022, MCSF-BI improved facilities and operating procedures to eliminate stormwater pollution discharges, including physical and process improvements at the woodchipper area; procurement of covered scrap metal hoppers and covers for open dumpsters; stormwater pond dredging and other repairs; and improvements to industrial buildings to mitigate oily wastewater generation.
- MCSF-BI implemented energy saving measures including installing LED lighting at five buildings; installing 25 solar streetlights; and completing Facility Related Control Systems in two buildings. In FY 2022, MCSF-BI also performed an energy audit in 25% of total square footage. As a result, the installation Resource Efficiency Manager identified operating issues at Building 361 boilers. Correcting these issues saved the installation 21% on its annual gas bill (652 Million British thermal units in energy savings or \$15,126 in cost savings).
- During the achievement period, MCSF-BI continued to implement a successful Qualified Recycling Program, and realized more than \$146,000 in revenues from the sale of recyclable materials.



The Fuel Filtration Unit (FFU) at MCSF-BI, with several off-spec JP-5 totes visible in the background. The FFU can process most off-spec fuel generated at MCSF-BI. However, contaminated fuel cannot be processed through FFU, and is turned in to the Mayport Base Operating Support contractor for management as waste.



KFM, LLC coolant purification system used to recycle used antifreeze at MCSF-BI. Used antifreeze is collected by shop personnel and transferred into a used anti-freeze tank at Building 350. Once a sufficient volume has been collected, it is processed through the coolant purification system and transferred into a purified anti-freeze tank for dispensing to shops.

# OSAN AIR BASE, REPUBLIC OF KOREA

## Environmental Quality, Overseas Installation Award



Osan Air Base (AB) is located about 33 miles south of Seoul and 48 miles south of the Korean Demilitarized Zone in the northwest portion of the Republic of Korea. The AB occupies about 2,020 acres; employs about 9,800 people, including military, DoD civilians, and contractors; and has a resident population of about 7,430 people. It is home to the 51st Fighter Wing, which provides mission-ready Airmen to execute combat operations and receive follow-on forces while defending and sustaining the base and its personnel. The 51st Civil Engineer Squadron's Environmental Element is responsible for Osan AB environmental stewardship, and ensures that the AB complies with environmental laws and regulations by integrating environmental management and pollution prevention principles; providing training for Airmen and civilians; and continuing to improve through assessments, root cause analysis, and implementation of corrective actions. The Environmental Element's vision is to create synergy through communication and collaboration to enhance Osan's mission.

- Osan AB published a Hazardous Materials Management Program and Hazard Communication (HAZCOM) Execute Order (EXORD). Signed by the Wing Commander, the EXORD directed a full review of all hazardous materials, hazardous material-using processes, and all HAZCOM programs. As a result, Osan AB accounted for 100% of all 6,000 hazardous materials and disposed of 40,000 pounds of expired or unnecessary hazardous materials.
- In FY 2022, Osan AB experienced a break in the sole sanitary sewer force main with the potential to release over 1 million gallons of raw sewage into the local Jinwi River. Osan AB immediately mobilized a 110-member spill response team to implement the Spill Prevention Control and Countermeasures Plan, which controlled the release of the raw sewage and allowed for repairs to remediate the spill within four days. All impacted areas were immediately and effectively sanitized.
- Osan AB ensured construction projects were reviewed for environmental impacts and that environmental requirements were incorporated throughout each project's life cycle, resulting in identification of 9,500 hazardous materials and prevention of erosion and silting of the stormwater system and infrastructure. Additionally, the AB programmed funding of \$2 million for sanitary sewer and \$2.5 million for stormwater system upgrades, and \$1.4 million for storm ditch cleaning. These vital repairs will reduce the likelihood of sewer overflow, minimize local flooding, and enhance the quality of local water.
- In FY 2021, the Tank Program Manager inspected each facility to establish an accurate tank inventory. The inspections allowed Osan AB to execute \$2 million in tank repairs and implement a recurring maintenance and inspection contract, which ensures licensed inspectors perform the inspections; inspectors identified 154 potential deficiencies, leading the Tank Program Manager to acquire an additional \$4 million for tank design and repair projects.
- Due to worsening air quality in the Republic of Korea, Osan AB elevated the priority of the Air Quality Program and rebuilt it from the ground up. The Air Quality Program Manager inventoried and reconciled the 300 regulated air emission sources for tracking, then implemented the Ozone Depleting Substance (ODS) Program. The program identifies and facilitates regulatory-driven repairs for ODS-using equipment. Additionally, the Program Manager inventoried 145 stationary engines, not historically managed by the Program, and entered 600 equipment specifications and air emissions standards into the system of record. This self-initiated effort saved the Air Force \$250,000 in contract costs, ensures systems operate within the established emission standards while addressing an environmental significant aspect. Osan AB is the first U.S. Forces Korea installation to complete this inventory.



The Environmental Office partners with the Civil Engineering Office to ensure that over 200 annual construction projects conform to environmental requirements from start to finish.



Mr. Song Kun Kwon, Environmental Program Manager, inspects a fuel tank. The Tank Program inspected and surveyed over 300 fuel tanks to develop a comprehensive list of deficiencies to execute a \$2 million repair contract and to advocate for an additional \$4 million to make repairs to the critical infrastructure at Osan AB.



# KADENA AIR BASE, JAPAN

## *Sustainability, Non-Industrial Installation Award*

Kadena AB, located on the island of Okinawa, is the largest base in the Pacific region at 11,017 acres. It is also home to the 18th Wing, the Department of the Air Force's largest combat Air Wing, whose mission is to deliver unmatched combat airpower and provide sovereign options that promote peace and stability in the Asia-Pacific region. The AB comprises 7,500 active-duty personnel, civilians, contractors, and dependents, and has a total population of 24,000 residents. The installation maintains a robust Environmental Management System (EMS) and exceeds DoD requirements through the successful integration of the regional EMS and navigation of two different countries' regulations. This high level of command support from the 18th wing increases the visibility of sustainability objectives and targets throughout the Pacific, and promotes continual improvement through shared challenges, successes, and lessons learned.

- Kadena AB contracted a private energy company, NORESKO, in November 2019 to implement a four-part Energy Savings Performance Contract to boost the installation's mission-critical energy resiliency. This project will generate more than \$153 million in guaranteed cost savings over the performance period. The keystone of the \$85.7 million project is a new generator and microgrid utility system, enabling Kadena AB to sustain operations and meet critical mission requirements effectively during utility disruptions. The contract also upgraded nearly 200,000 existing fluorescent lights with energy-efficient LED components, thereby reducing lighting energy consumption by over 65%.
- Kadena AB emphasized procurement of green materials by implementing several sustainable programs. The Free Issue Program reissues unused serviceable materials to installation shops free of charge and has resulted in a savings of \$79,000 by preventing purchases of unnecessary new products. The Shelf-Life Extension Program, which sends material expiration notifications, has saved \$46,000 in product replacement costs and \$230,000 in disposal costs. Since 2020 the total cost of purchasing green materials has increased from \$75,000 to \$113,000.
- In 2022, Kadena AB facilitated the removal of 18,000-pounds of Halon 1211, a Class I ODS, and 5,000-pounds of R-22, a Class II ODS, through its Ambient Air Quality Monitoring Plan. In addition, Kadena AB eliminated the possibility of accidental releases to the atmosphere by turning in excess ODS products to the Defense Logistics Agency Aviation Reserve, thus aiding the DoD mission for reutilization.
- Kadena AB's qualified recycling program has earned an average of \$300,000 per year, diverted 8,200 tons (43%) of municipal solid waste (MSW) and 1,320 tons (98%) of construction and demolition waste from landfill and incineration. This exceeded DoD's diversion goals of 40% and 60%, respectively. Additionally, MSW disposal weights have decreased nearly 2,000 tons in the last year. Green waste and used oil recycling programs have saved the installation \$1.3 million and \$300,000 per year, respectively.
- Kadena AB conducted an initial cultural asset survey at the proposed Chibana Industrial complex area and uncovered an old village site that is considered a rare finding due to its relatively intact condition after island wide development occurred post World War II. This village site is named "Daikujyaku Yatoukuru Village," and the recovery effort has recorded significant historical artifacts.



U.S. Air Force and U.S. Navy conduct regular flying missions over Okinawa, Japan.



The "fuuru" found at the Daikujyaku Yatoukuru Village site is an intact system of the modern-day toilet.

# 366TH ENVIRONMENTAL MANAGEMENT TEAM, MOUNTAIN HOME AIR FORCE BASE, IDAHO

*Sustainability, Individual/Team Award*



Mountain Home Air Force Base (MHAFB), located on the Snake River Plain, 50 miles southeast of Boise, Idaho, is home to the 366th Fighter Wing (366 FW). With the impressive firepower of the F-15 Strike Eagle aircraft, the 366 FW is home to 3,610 active-duty members, 450 civilians, 440 contractors, and 3,500 family members. The base comprises 1,610 facilities, including military family housing, and provides a \$760 million annual total economic impact in Idaho. The 366 FW Environmental Management Team accomplishes its unique mission in conformance with Federal and state regulations, Department of Air Force Instructions, and the EMS. The Team, which is composed of 10 people with over 190 years of combined experience, is dedicated to environmental stewardship and mission resilience by continually optimizing processes, reducing environmental risks, and preventing pollution.

- MHAFB overcame immediate water challenges derived from a rapid decline in its regional aquifer by employing mitigation measures including utilizing 89 million gallons of reused water from the base wastewater treatment plant for irrigation use and aquifer recharge. The base also secured a 14-mile water pipeline project that will further reduce aquifer withdrawal while ensuring base sustainability and mission resiliency.
- MHAFB partnered with local utilities establishing a program to ensure installation electric needs are met in case of a catastrophic power grid failure. Additionally, the Team pursued a \$25 million geothermal power pilot program that primes the base for an estimated \$3.5 million annual cost savings and reduction in carbon dioxide emissions by 54,000 tons.
- The Team maintains a strong, dedicated waste diversion program. This base-wide effort gathered 18,000 pounds of recyclable material and revived 5 acres of unusable recreational grounds. Additional long-term initiatives include diverting 32,400 tons of landfill waste, reusing 18,000 cubic yards of construction project soils, and repurposing 2,000 gallons of herbicide to reduce invasive vegetation, saving \$1.7 million in disposal costs.
- The Team worked closely with the Idaho Department of Environmental Quality to properly characterize MHAFB fire training complex soils amid a redesign project. The base received the Department of the Air Force approval to encapsulate 600 cubic yards of per- and polyfluoroalkyl substances containing soils, saving \$900,000 of taxpayer dollars.
- Partnering with local supporters allowed the Team to reach stewardship goals by eliminating highly invasive vegetation through collaborative methods, including increasing targeted grazing, establishing fire tolerant flora, and re-establishing sage brush groves. The Team continues to safeguard critical sage grouse and slickspot peppergrass habitat and protect 4,000 cultural resources sites including the largest known concentration of Paleolithic archaeological sites in the American Northwest.



The 366th Environment Management Team. Left to right: Master Sergeant Daniel Hamden, Ms. Paula Jo Brown, Mr. Hodge Echeverria, Mr. Glenn Sansone, Ms. Katie Gomez, Mr. Mike Wussow, Ms. Sheri Robertson, Mr. Eddie Jackson, Ms. Beth Burgess, Mr. Cory Mikita, Mr. Michael McDaniels, and Captain Ronald Diaz-Cataldo.



By working with engineers and Idaho Department of Environmental Quality to manage per- and polyfluoroalkyl substance-contaminated soils, a \$2 million redesign of the MHAFB Fire Training Complex was achieved.



# NAVAL BASE POINT LOMA, CALIFORNIA

## Environmental Restoration, Installation Award

Naval Base Point Loma (NBPL) is made up of approximately 1,901 acres of land, spread out between three main regions (NBPL Old Town, NBPL Peninsula, NBPL Harbor Drive) and several smaller areas in San Diego, California. NBPL is home to 65 tenant commands including Naval Information Warfare Center Pacific and Naval Information Warfare Systems Command Headquarters. The mission of NBPL is to help support the U.S. Pacific Fleet and other operating forces, and one of their three lines of effort to meet this mission includes protecting resources and the environment under NBPL jurisdiction. NBPL works with the Department of Toxic Substances Control and the Regional Water Quality Control Board on its NBPL Installation Restoration (IR) Program. This cooperation helps to expedite cleanup programs and create innovative solutions to restoration problems.

- NBPL completed corrective action at underground storage tank (UST) 105, where there was a release from a former 7,500-gallon diesel fuel UST near San Diego Bay, ending ongoing investigations since 1995. NBPL injected an activated carbon called Petrofix into the soil between the oil and the bay, so the Petrofix could absorb the petroleum hydrocarbons as they traveled towards the water. Nitrate and sulfate oxides were then added to the Petrofix to degrade the hydrocarbons after they had been absorbed. 13,000 gallons of this solution was injected into 46 locations at UST 105 in January 2021. The NBPL IR Program issued the closure of the site in September 2022.
- NBPL completed a successful Time Critical Removal Action (TCRA) at IR 7, a 5.5-acre vacant site where municipal and industrial wastes and construction debris were buried. The IR Program implemented the TCRA to remove 0.5 acres of IR 7 after finding elevated concentrations of contaminants onsite. The program also disposed on 5,700 cubic yards of contaminated soil and debris from the site. Restoration measures included installing both stormwater erosion controls and a temporary irrigation system for revegetation and hydroseeding with native plant species.
- The NBPL IR Program implemented a successful TCRA designed to remove lead and lead-contaminated soil from Munitions Response Program 1, a 3.5-acre former small arms range. The NBPL IR Program excavated and screened 600 cubic yards of soil; 450 cubic yards of the screened soil was suitable for reuse, and 150 cubic yards of waste was disposed of offsite. The program saved over \$50,000 by screening the soil and reducing waste disposal and backfill material costs.
- The NBPL IR Program also managed extensive fieldwork at two sites: IR 12 and IR 13. The results from this fieldwork showed a contamination of volatile organic contaminants by vapor intrusion into buildings. NBPL IR responded within two weeks with a subslab ventilation system that was successful in improving indoor air quality and reducing the vapor intrusion.



Department of the Navy site tour with California regulatory agency Environmental Restoration managers at NBPL IR sites, April 2022. From left to right: Ms. Kristin Schwall, Mr. Nicholas Shih, Mr. Derral Van Winkle, Mr. Ed Morelan, and Ms. Eileen Mananian.



Site restoration in the steep ravine after excavation of solid waste debris and contaminated soil was completed at IR Site 7. Photograph depicts stormwater channel riprap and erosion controls.

# IOWA ARMY NATIONAL GUARD

## *Cultural Resources Management, Small Installation Award*

The Iowa Army National Guard's (IAARNG) Camp Dodge Joint Maneuver Training Center is the primary training installation for Iowa, made up of around 4,500 acres of land. Camp Dodge boasts numerous training resources including, but not limited to, healthcare training, vehicle training, a regional training institute, and officer candidate school training. Camp Dodge's mission also encompasses providing its Level III Training Area to other Federal and state agencies, National Guards, and military branches. The Camp Dodge Joint Maneuver Training Center is one of the few active training facilities that pre-dates the First World War. The installation hosts historic structures from the Works Progress Administration (WPA) and Second World War eras that are still in use today. The CRM program's efforts to achieve a harmony in preserving the integrity of the historic sites while also ensuring their usefulness in Camp Dodge's important mission have allowed for continued use of these historic structures.

- The Camp Dodge CRM program restored the WPA-built limestone perimeter fence and gatehouse. The WPA constructed the fence in 1937 using locally sourced limestone. The perimeter fence includes 99 stone pillars and the original gatehouse. The Camp Dodge CRM Program reused stone pieces from the existing fence to help rebuild some of the damaged stone pillars. New grout was specially mixed to have the same look and consistency of the original materials. The CRM program replaced light fixtures on the fence with historic-looking light fixtures that imitated the appearance of gas lights.
- Camp Dodge's CRM program was able to offset part of the cost of repairing the fence by leveraging state funds. Rebuild Iowa Infrastructure Funds gave the CRM program \$56,000 of the total \$373,000 project costs.
- Camp Dodge displayed innovative thinking in adapting its historic bathing pavilion into modern classroom spaces. Camp Dodge replaced leaking windows with modern windows that were weatherized with wood trim to match the structure's original historic character after consultation with the State Historic Preservation Office. Camp Dodge is currently replacing the roof but keeping its original, 45-degree-angle design, which will help keep the building cool.
- The Camp Dodge CRM program worked with the State Historic Preservation Office to repair the historic 1940s Herrold Schoolhouse, which was incorporated into the installation during the camp's expansion during the Second World War. The CRM program repaired the building's soffits and restored the crumbling façade with a wood-detailed overhang. The schoolhouse is still in use as a location for debriefing training events.
- The Camp Dodge CRM program has secured funds for an internship opportunity with Iowa State University's archaeology and architecture programs to work with CRM staff directly. Students will complete work-study projects tied to their research and the resources on post.



*Camp Dodge's historic stone fence is a landmark for the community. Restoration of this feature is a major milestone for the CRM program.*



*Herrold Schoolhouse, in the process of restoration to restore historical features of significance.*

# CULTURAL RESOURCES OFFICE TEAM, EGLIN AIR FORCE BASE, FLORIDA

*Cultural Resources Management, Individual/Team Award*



Situated along the Emerald Coast and extending into the heart of Florida's panhandle, Eglin Air Force Base (AFB) is home to the 96th Test Wing, which comprises 3,211 military personnel, 2,967 civilians, and 1,916 contractors. The Eglin AFB Cultural Resources Office Team supports the warfighter by meeting present compliance responsibilities, planning future activities to minimize cultural resources impacts, and managing those resources responsibly. The team is composed of 12 environmental professionals who are committed to proactive and responsive environmental management to ensure continued access to Eglin AFB's vast air, land, and water ranges. The Cultural Resources program goals are outlined in the Integrated CRM Plan, and they affirm that Eglin AFB will remain in compliance with applicable cultural resources laws and regulations, provide both internal and external cultural resources educational opportunities to the community, and improve tribal relationships.

- Eglin AFB has the unique challenge of managing the Eglin Gulf Test and Training Range (EGTTR), which comprises nearly 123,000 square miles of airspace over the Gulf of Mexico, an area with a rich maritime history, and known for submerged archaeological sites and historic shipwrecks. To improve EGTTR mission readiness, the Cultural Resources Office Team established partnerships, consultation parameters, and standard operating procedures (SOPs) to assess effects on cultural resources and ensure National Historic Preservation Act (NHPA) compliance. The SOPs saved an estimated \$40 million expenditure during an EGTTR fiber-optic cable project.
- In 2021, after years of collaboration with stakeholders, including six Federally recognized Native American Tribes, the CRM Team finalized and established a Programmatic Agreement (PA) among Eglin AFB, the Florida State Historic Preservation Officer (SHPO), and the Advisory Council on Historic Preservation regarding the management of historic properties at Eglin AFB. This extremely comprehensive PA improves and streamlines Eglin AFB's ability to assess cultural resources impacts more effectively and ensure NHPA compliance.
- The Cultural Resources Office Team maintained a robust education and outreach program that brings respect and awareness to cultural resources, recruits community support for stewardship of Eglin AFB's heritage, and enhances community relations. These efforts educate hundreds of attendees. For example, the Cultural Resources Office Team supports the Thunderbird Intertribal Powwow, including providing an educational display that reaches over 300 students.
- The Cultural Resources Office Team protects archaeological sites from weathering and erosion along the many shorelines within the installation boundary. The team worked with Eglin AFB's Natural Resources section to execute numerous living shoreline projects during the achievement period, resulting in the protection of 14,000 linear feet of shoreline and 11 archeological sites. These projects focus on immediately halting coastal erosion as well as further developing a long-term solution for this issue.
- The Cultural Resources Office Team has fostered a strong relationship with the Florida SHPO due to continuous communication and a comprehensive PA. Through close consultation with the SHPO, the team cleared the \$13 million modernization and upgrade project of a 57,000-square-foot historic aircraft hangar ensuring ongoing and effective use by the Air Force and continuance of the mission.



The Cultural Resources Office Team. Back row (from left to right): Joseph Meyer, Tony Cross, Brandon Dominguez, Alexander DeCaro, Jane Pope, Jean Paul Pentecoteau, and Jessica Higley. Front row (from left to right): Patricia Williams, Catherine Nolan, Melinda Rogers, Maria Rodriguez, and Brady Swilley.



Mr. Rick Kelly of the Nottoway Indian Tribe addresses the children at the Thunderbird Intertribal Powwow during National American Indian Heritage Month.

# ACQUISITION AND LOGISTICS-HEAVY METALS WORKING GROUP, WASHINGTON, DC



*Environmental Excellence in Weapon Systems Acquisition, Individual/Team Award*

Industry, DoD, and the U.S. Army have a history of incorporating hexavalent chromium (Cr6+) into weapon systems and associated repair processes due to its excellent corrosion resistance properties. Cr6+ is an excellent corrosion inhibitor that increases platform life expectancy under the harshest environmental conditions. However, Cr6+ is a known human carcinogen, and there are challenges with its long-term use due to the substance's toxicity to humans and the environment. In 2018, the Army created a Heavy Metals Working Group (HMWG) to address long-standing heavy metals life-cycle issues. In January 2021, in response to HMWG Cr6+ issues related to equipment, parts, and repair processes, the Assistant Secretary of the Army (Acquisition, Logistics and Technology) (ASA(ALT)) Environmental Support Office established an Acquisition and Logistics-HMWG.

- The Acquisition and Logistics-HMWG promulgated a new Army Acquisition Executive policy to reduce and/or eliminate the use of Cr6+ in weapon systems and maintenance processes. The ASA(ALT) signed the policy, *Elimination of Hexavalent Chromium in Army Acquisition and Sustainment*, in March 2022. Understanding that there may not be a qualified alternative for every part by the elimination dates, the policy includes a structured waiver process. All waivers must be coordinated through Life Cycle Management Command before being routed for approval through the appropriate acquisition offices for sustainment community awareness. This approach ensures that sustainment processes with Cr6+ maintain environmental compliance and health protection procedures to protect field and depot soldiers and civilians.
- The Working Group implemented a process that clearly codes all system and spare parts with national stock number (NSN) designations for non-heavy metal and heavy metal-containing items. An NSN does not discriminate between chromated and non-chromated parts. The Working Group ensured that Cr6+ and Cr6+-free products with the same military specifications do not share the same NSN. Team members identified NSNs that included both Cr6+ and Cr6+-free products and then worked closely with Defense Logistics Agency personnel to create separate NSNs for Cr6+-free products.
- The Working Group researched and identified alternatives for heavy metal-containing items such as coatings, adhesives, primer, and pre-treatments, and shared successes and setbacks across the Army.
- The Working Group qualified Cr6+-free alternative products and processes on current systems and implemented these at depot and field level repair operations. These efforts result in an immediate reduction of Army civilian and soldier exposure to Cr6+.
- The Working Group revised Army Regulation 750-1, *Army Material Maintenance Policy*, and associated Department of the Army Pamphlets to expand the definition of field maintenance to include damage repair and corrosion prevention. This step ensures that Cr6+ and other heavy metals policies are applicable to all maintenance activities from depot to field level. These efforts ensure that potential Cr6+ worker exposure is clearly documented throughout the depot repair process.



Examples of corrosion during ground vehicle parts inspections. The U.S. Army Combat Capabilities and Development Command researching Cr6+ ground vehicle product alternatives must work closely with the corrosion office to ensure proposed replacement products effectively protect the equipment and soldiers in all environments.



Three magnesium housings coated with Tagnite. Tagnite is an alternative pretreatment to the legacy Cr6+ conversion coatings. It is not only a safer alternative but it also provides superior corrosion protection over the legacy process.

# HONORABLE MENTIONS

## NATURAL RESOURCES CONSERVATION

### Large Installation

- Naval Base Coronado, California
- Marine Corps Base Camp Pendleton, California
- Patrick Space Force Base, Florida

## ENVIRONMENTAL QUALITY

### Industrial Installation

- Texas Army National Guard
- Robins Air Force Base, Georgia

## ENVIRONMENTAL QUALITY

### Overseas Installation

- Commander Fleet Activities, Chinhae, South Korea

## SUSTAINABILITY

### Non-Industrial Installation

- South Dakota Army National Guard
- Naval Base San Diego, California
- Marine Forces Reserve, Louisiana

## SUSTAINABILITY

### Individual/Team

- Sustainability Team, Minnesota Army National Guard
- Mr. Bruce Delling, Naval Weapons Station Seal Beach, California

## ENVIRONMENTAL RESTORATION

### Installation

- Lake City Army Ammunition Plant, Missouri
- Marine Corps Recruit Depot Parris Island, South Carolina
- Montgomery Air National Guard Base, Alabama

## CULTURAL RESOURCES MANAGEMENT

### Small Installation

- U.S. Fleet Activities Yokosuka, Japan
- Marine Corps Logistics Base Barstow, California

## CULTURAL RESOURCES MANAGEMENT

### Individual/Team

- Mr. William C. Godby, White Sands Missile Range, New Mexico

# 2023 SECDEF ENVIRONMENTAL AWARDS JUDGES

**Volunteers from Federal and state agencies, private industries, academia, and non-governmental organizations served as judges for the 2023 Secretary of Defense Environmental Awards.**

**Greg Allen, Ph.D.**

*Environmental Scientist, Chesapeake Bay Program Office, U.S. Environmental Protection Agency*

**Stephen O. Andersen, Ph.D.**

*Director of Research, Institute for Governance & Sustainable Development*

**Eric A. Banks, Ph.D.**

*Adjunct Professor of Chemistry, Texas A&M University – San Antonio*

**Melanie Berkemeyer, AIA, LEED AP, CDT**

*Design Manager, Bureau of Overseas Buildings Operations, U.S. Department of State*

**Charlotte Bertrand**

*Director, Environmental Management Division, Office of Strategic Infrastructure, National Aeronautics and Space Administration*

**L. Peter Boice**

*Director (Ret), Natural Resources, Office of the Secretary of Defense, Department of Defense*

**Joseph Cascio, Esq.**

*Deputy Director, Environmental and Energy Management Institute, The George Washington University*

**Brian Clapp**

*Environmental Protection Specialist, Office of Chemical Safety and Pollution Prevention, U.S. Environmental Protection Agency*

**Heather D. Daniels**

*Vice President, Environment, Safety, Health and Sustainability, Lockheed Martin Corporation*

**Heide-Marie Dudek, P.E.**

*Chief, Division of Environmental Remediation, New York State Department of Environmental Conservation*

**Sara Espinoza**

*Interim President, National Environmental Education Foundation*

**John M. Fowler**

*Executive Director (Ret), Advisory Council on Historic Preservation*

**Sherry A. Frear, RLA**

*Chief, National Register of Historic Places and National Historic Landmarks Program, Cultural Resources, Partnerships, and Science Directorate, National Park Service*

**Kevin Andrew Funk**

*Supply Chain Risk Management Expert, Office of Government-wide Acquisition Policy, U.S. General Services Administration*

**Sally Gestautas**

*Director, Global Chemical Substances Program, Raytheon Technologies*

**Nancy Golden, Ph.D.**

*Environmental Toxicologist, U.S. Fish and Wildlife Service*

**Lewis E. Gorman III**

*Board Member, U.S. Fish and Wildlife Service Retirees Association*

**Bradley R. Grams**

*Associate Director, Planning Division, Office of the Chief Financial Officer, U.S. Environmental Protection Agency*

**Philip W. Grone**

*Vice President, Government Affairs, National Elevator Industry, Inc.*

**Christina Guthrie**

*Lead Environmental Protection Specialist, Data Analysis and Dissemination Branch, U.S. Environmental Protection Agency*

**Emily Hammond**

*Vice Provost for Faculty Affairs and Professor of Law, The George Washington University*

**Christine Harada**

*Executive Director, Federal Permitting Improvement Steering Council*

**Philip L. Hoffman**

*Research and Development Coordinator, Uncrewed Maritime Systems, National Oceanic and Atmospheric Administration*

**Gilbert E. Jones II**

*Unit Chief Security Officer, Federal Bureau of Investigation*

**Emily A. Joseph**

*Director, Office of Restoration and Damage Assessment, U.S. Department of the Interior*

**Aaron Kocian**

*Program Analyst, Office of the Chief Financial Officer, U.S. Environmental Protection Agency*

**Fran Kremer, Ph.D.**

*Senior Scientist, Office of Research and Development, U.S. Environmental Protection Agency*

**Michael T. Lesnick, Ph.D.**

*Senior Fellow, Meridian Institute*

**David Levine**

*Co-founder and President, American Sustainable Business Network*

**Dottie Lofstrom**

*Division Chief (Ret), California Department of Toxic Substances Control*

**Jerrold A. Long, Ph.D., J.D.**

*Professor of Law, The University of Idaho College of Law*

**Al McGartland, Ph.D.**

*Director, National Center for Environmental Economics, U.S. Environmental Protection Agency*

**Matthew G. McKinzie, Ph.D.**

*Senior Director, Data and Policy Analysis, Science Office, Natural Resources Defense Council, Inc.*

# 2023 SECDEF ENVIRONMENTAL AWARDS JUDGES

**Teresa R. Pohlman, Ph.D., LEED AP**

*Executive Director, Sustainability and Environmental Programs,  
Office of the Chief Readiness Support Officer, U.S. Department of  
Homeland Security*

**Virginia B. Price**

*Historian, Office of Cultural Heritage, U.S. Department of State*

**Douglas Pulak**

*Federal Preservation Officer, U.S. Department of Veteran Affairs*

**Meghann Quinn**

*Manager, Office of Pollution Prevention, Virginia Department of  
Environmental Quality*

**Russell V. Randle**

*Principal, Miles & Stockbridge*

**Charles Reyes**

*Associate Director, Association of State and Territorial Solid Waste  
Management Officials*

**Yann Risz**

*Co-Founder and Chief Executive Officer, Aligned Incentives*

**Patricia Samford, Ph.D.**

*Director, Maryland Archaeological Conservation Laboratory,  
Jefferson Patterson Park and Museum*

**Sandrine Schultz**

*Senior Advisor, Office of High Performance and Green Building, U.S.  
General Services Administration*

**Timothy J. Sheehan**

*Technical Fellow, Raytheon Technologies*

**Lenny Siegel**

*Executive Director, Center for Public Environmental Oversight*

**Katherine Slick**

*President, Advisory Council on Historic Preservation Foundation*

**Peggy Tadej**

*Director of Community and Military Partnerships, Northern Virginia  
Regional Commission*

**Mervyn L. Tano**

*President, International Institute for Indigenous Resource Management*

**Denise Thaller**

*Deputy Assistant Administrator, Office of Strategic Infrastructure,  
National Aeronautics and Space Administration*

**Dan Ward**

*Branch Manager (Ret), Engineering and Special Projects, California  
Department of Toxic Substances Control*

**Richard Wagner, AIA, Ph.D.**

*Architect, Richard Wagner AIA, LLC*

**Johnathan D. Weiss**

*Senior Sustainability Counsel, ManTech International Corporation*

**Tracie M. White, P.E.**

*Director, Hazardous Materials & Waste Management Division,  
Colorado Department of Public Health & Environment*

**Cherilyn E. Widell**

*Principal, Widell Preservation Services, LLC*

**Peter Williams, Ph.D.**

*Chair, ARISE-U.S.*

# PAST WINNERS

## Natural Resources Conservation

2022 Marine Corps Base Hawaii  
2022 Naval Air Station Pensacola Natural Resources Team, Florida  
2021 Eglin Air Force Base, Florida  
2020 Fort Custer Training Center, Michigan Army National Guard  
2020 Conservation-Training Enhancement Team, Camp Ripley, Minnesota Army National Guard  
2019 Eglin Air Force Base, Florida  
2018 Hawaii Army National Guard  
2018 Natural Resources Conservation Team, Naval Base Ventura County, California  
2017 Camp Ripley, Minnesota Army National Guard  
2016 Camp Dawson Army Training Site, West Virginia Army National Guard  
2016 Fort McCoy Natural Resources Branch, Wisconsin  
2015 Camp Blanding Joint Training Center, Florida Army National Guard, Florida  
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

2022 Shaw Air Force Base, South Carolina  
2022 Air Force Radioactive Recycling and Disposal Team, Wright-Patterson Air Force Base, Ohio  
2021 Marine Corps Air Station Camp Pendleton, California  
2021 Yokota Air Base, Japan  
2020 Marine Corps Air Station Miramar, California  
2020 Environmental Information Management System Team, U.S. Fleet Forces Command, Virginia  
2019 Wisconsin Army National Guard  
2019 Marine Corps Base Camp Smedley D. Butler, Okinawa, Japan  
2018 Fort Hood, Texas  
2018 Mr. Frederick A. Javier, 1st Special Operations Civil Engineer Squadron, Hurlburt Field, Florida  
2017 Marine Corps Logistics Base Barstow, California  
2017 U.S. Army Garrison Bavaria, Germany  
2016 Marine Corps Air Ground Combat Center Twentynine Palms, California  
2016 Eglin Air Force Base Environmental Quality Team, Florida  
2015 Robins Air Force Base, Georgia  
2015 Marine Corps Base Camp Smedley D. Butler, Japan  
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. Awani 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 Smedley, 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

## Sustainability (formerly Pollution Prevention)

2022 Naval Weapons Station Seal Beach and Detachment Fallbrook and Norco, California  
2021 U.S. Army Garrison Fort Polk, Louisiana  
2021 Naval Supply Systems Command, Weapon Systems Support, Pennsylvania  
2020 Naval Base Kitsap, Washington  
2019 Marine Corps Air Station Miramar, California  
2019 East Campus Reclaimed Water Team, National Security Agency, Fort Meade, Maryland  
2018 Marine Corps Logistics Base Barstow, California  
2017 Eglin Air Force Base, Florida  
2017 Mr. Jeffery D. Schone, Luke Air Force Base, Arizona

# PAST WINNERS

- 2016 Marine Corps Support Facility Blount Island, Florida
- 2015 Marine Corps Air Ground Combat Center Twentynine Palms, California
- 2015 Minnesota Army National Guard Sustainability Team, Minnesota
- 2014 Naval Weapons Station Seal Beach, California
- 2013 673rd 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

- 2022 Marine Corps Base Camp Lejeune, North Carolina
- 2022 Glenbrook Road Remedial Action Team, U.S. Army Corps of Engineers North Atlantic Division, Maryland
- 2021 Shaw Air Force Base, South Carolina
- 2020 Camp Edwards, Joint Base Cape Cod, Massachusetts Army National Guard
- 2020 Vieques Environmental Restoration Team, Puerto Rico
- 2019 Naval Base Ventura County, California
- 2018 Vandenberg Air Force Base, California
- 2018 Vieques Environmental Restoration Team, Puerto Rico
- 2017 Travis Air Force Base, California
- 2016 Beale Air Force Base, California
- 2016 Vieques Environmental Restoration Program Team, Puerto Rico
- 2015 Marine Corps Base Camp Lejeune, North Carolina
- 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

- 2022 Texas Army National Guard
- 2021 Naval Base Point Loma, California
- 2021 Mr. Thomas E. Penders, Patrick Space Force Base, Florida
- 2020 Naval Air Weapons Station China Lake, California
- 2019 Washington Army National Guard
- 2019 Ms. Rita McCarty, Mississippi Army National Guard
- 2018 Camp Ripley, Minnesota Army National Guard
- 2017 Commander, Fleet Activities, Yokosuka, Japan
- 2017 Cultural Resources Management Team, Alabama Army National Guard
- 2016 White Sands Missile Range, New Mexico
- 2015 U.S. Army Garrison Picatinny Arsenal, New Jersey
- 2015 Dr. Paul R. Green, U.S. Air Force Civil Engineer Center, Virginia
- 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 Systems Acquisition

- 2022 C-130 Program Office and Support Team, Robins Air Force Base, Georgia
- 2020 F-35 Joint Program Office, Wright Patterson Air Force Base, Ohio
- 2019 Tagnite Technical Working Group, U.S. Army Research Laboratory, Aberdeen Proving Ground, Maryland
- 2018 Combat Rescue Helicopter Program Environment, Safety and Occupational Health Team, Wright Patterson Air Force Base, Ohio
- 2017 Chromium-Free Wash Primer Replacement Team, U.S. Army Research Laboratory, Aberdeen Proving Ground, Maryland
- 2016 KC-46 Program Environment, Safety, and Occupational Health Team, Wright-Patterson Air Force Base, Ohio
- 2015 Halon Extinguisher Replacement Program for Aviation Weapon Systems Integrated Product Team, Redstone Arsenal, Alabama
- 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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