



FY25 General Environmental Awareness Presentation

MCLB Barstow, California

This overall classification of this brief is **CONTROLLED UNCLASSIFIED INFORMATION**

This brief contains **49** slides (**30-40** minutes)

Dated: **202501270930L**



PURPOSE

- **The purpose of this Environmental Awareness presentation is to provide personnel aboard Marine Corps Logistics Base Barstow with useful information about:**
 - **Environmental requirements**
 - **Environmental laws and regulations**
 - **Identify installation environmental programs that apply to their duties and assignments**
 - **Recognizing the environmental requirements of their duties**



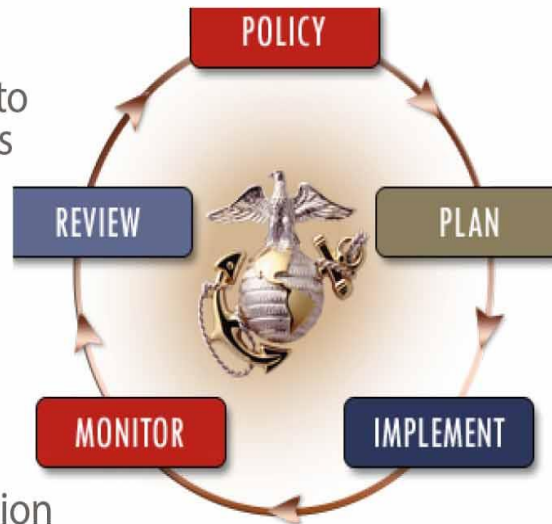
ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)

ACT

Use progress reviews to make needed changes

CHECK

Monitor progress and use corrective action

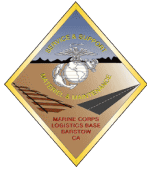


PLAN

Identify targets and objectives in planning

DO

Implement training and operational controls



Environmental Management System

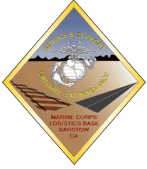


An Environmental Management System (EMS) is a continual cycle of planning, implementing, reviewing and improving the processes and actions that an organization undertakes to meet its business and environmental goals.

An EMS supports military activities and practices by doing the following:

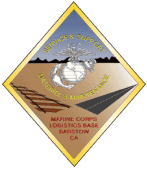
- Promotes pollution prevention activities
- Encourages the purchase and use of environmentally friendly products
- Reduces or eliminates hazardous waste (HW) streams
- Conserves and protects our natural resources
- Develops sustainable environmental practices
- Environmental Standard Operating Procedures (ESOPs) have been developed to help the installation effectively manage practices

EMS/ECE Program Manager
(760) 577-6416



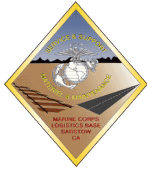
ENVIRONMENTAL LAWS AND REGULATIONS





Environmental Laws and Regulations

- **MCO 5090.2, Vol 5 & BO 5090.3B** - Ensure all personnel receive regulatory and general environmental awareness training.
- **Clean Air Act** – enacted to protect and enhance quality of the nation's air resources.
- **Safe Drinking Water Act** – regulates drinking water quality for pollutants that may have an adverse effect on human health or quality of drinking water.
- **Endangered Species Act** – protects plants and animals that are listed by the National Marine Fisheries Service and the U.S. Fish and Wildlife Service as endangered or threatened.
- **Resource Conservation and Recovery Act (RCRA)** – regulates the handling, transport, storage, treatment, and disposal of solid and hazardous waste (Cradle to Grave).



Environmental Laws and Regulations

- **Comprehensive Environmental Response, Compensation, And Liability Act (CERCLA) and The Superfund Amendments and Reauthorization Act (SARA) –** established a series of programs for the cleanup of hazardous waste and disposal at spill sites nationwide.
- **There are numerous other federal, state, county laws and regulations, executive orders, Marine Corps Orders, and Base Orders with which we must comply.**



NON-COMPLIANCE



Non-Compliance



- **Open Containers**
- **Missing, Expired, or No Labels on Hazardous Materials**
- **Missing or No Labels on Drums**
- **Mixed Hazardous Material Containers in Storage or Disposal Areas**
- **No AUL Authorized User's List**
- **Outdated or Missing Safety Data Sheets (SDS's)**
- **Missing or No Annual and Quarterly Inspection Checklists**
- **Missing or No Training Records**



THE COST OF **NON-COMPLIANCE**



The Cost of Non-Compliance

“The cost of an environmental Notice of Violation (NOV) in California can vary depending on the type of violation and the circumstances:

- First-time violators: May be liable for up to \$2,000 per day of violation, plus any costs for cleanup or emergency response**
- Violations after reasonable notice: May be liable for up to \$25,000 per day**
- Hazardous waste violations: May be liable for up to \$70,000 per day of violation**
- Serious or repeated violations: May result in Criminal Prosecution**

The California Health and Safety Code establishes a maximum civil penalty of \$5,000 to \$1,000,000 per day of violation.”

**Courtesy of Mr. Sammy Supnet, Supervisor
Regional Comprehensive Environmental Training and Education Program**



HAZARDOUS WASTE





Hazardous Waste

- **Resource Conservation And Recovery Act (RCRA)** – law has the most impact on how we generate and handle hazardous waste
- Enacted to protect human health and the environment, conserve energy, natural resources, and to reduce or eliminate the generation of hazardous waste
- Requirement to track hazardous waste from ‘cradle to grave’
- Defines hazardous waste characteristics and regulates the treatment, storage, and disposal process of hazardous waste

- **Hazardous Waste** – is a hazardous material that has exceeded its shelf life, been discarded or abandoned and when it exhibits any of the listed characteristics or when specifically listed as hazardous or extremely hazardous according to federal and state laws/regulations
- Any unit or organization managing hazardous waste aboard the base must comply with all applicable Federal, state, local laws, Marine Corps Orders, and Base Orders
- Any questions regarding the management of hazardous waste please call:

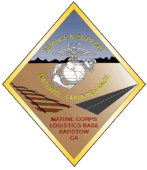
Hazardous Waste/Munitions Program Manager

(760) 508-6659



SPILL INFORMATION





Spill Information

Definitions:

- **Hazardous Material:** Any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant presence or threatened hazard to human health and safety or to the environment, if released into the workplace or the environment (examples: battery acid, any oils, fuel, etc.).
- **Release:** Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment, unless permitted or authorized by a regulatory agency.



Spill Information (cont.)

Reporting Spills

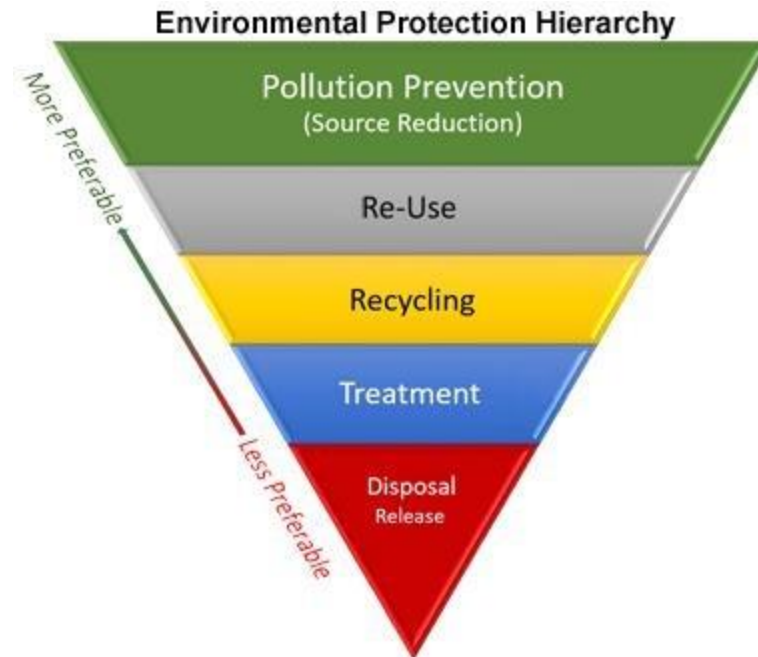
- Immediately report all releases of hazardous materials (HM), or hazardous substances**, including oils, *in any amount*, to the Base Environmental Division. The Base Environmental Division will then make notifications.
- During normal business hours:**
 For all spills larger than 5 Gallons, please call MCLB Barstow Dispatch then call the environmental.
- Fire Department:**
 Call Dispatch at (760)577-6666 or 911 (Dispatch will ensure faster response times).
 Specify, you are at MCLB Barstow (Nebo or Yermo Annex).
- For all other hazardous materials/substances** including oils that are released aboard MCLB Barstow (Nebo and Yermo Annex), notify:

<u>Emergency Spills</u>	Tank Manager	HW Manager
(760) 686-0226	(760) 577-6188	(760) 508-6659
	(Interim)	

- After hours:** Contact the Fire Department Dispatcher.



POLLUTION PREVENTION





Pollution Prevention

What is Pollution Prevention?

- Pollution is waste! All those emissions going out the stacks, discharges going down the drain, and wastes sent to the landfill or shipped off-site, represent material wasted.
- Historically – waste management practices have focused on treating waste after generation, at the point of release into the environment. This method only transfers pollutants from one medium (air, land, water) to another.
- Best way to reduce waste is to reduce the reliance on raw materials and processes that create the waste.

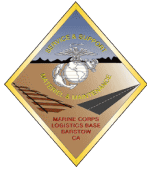
Preferred Methods To Waste Minimization:

- Source Reduction – Reduce volume, mass, or toxicity of products through life cycle.
- Material Substitution - Replacement of existing raw materials with other materials that produce less waste, or act as a non-toxic waste.
- Recycling - Converting waste materials into new materials and objects.
- Reclamation - The act of returning something to a former, better state.
- Reutilization - The act of using something again for a particular purpose.



AIR QUALITY





Air Quality

To protect the quality of the air across the installation, please remember the following:

- Read/understand the permit conditions listed on permitted equipment.
- Operate equipment according to manufacturer's instructions Report equipment breakdowns immediately.
- Report all Hazardous Material purchases to the Base Environmental
- HM Management System Manager.
- Keep lids closed on all solvent/paint containers, dip tanks, and parts cleaners when not in use.
- Minimize dust, and
- Maintain all records on site for five-years.

Please Remember:

- Before purchasing, installing, or operating equipment that could emit pollution, please check with the Base Environmental Division Air Program Manager.

**Air Program Manager
(760) 577-6188**



QUALIFIED RECYCLING PROGRAM





Qualified Recycling Program

- You can help make recycling aboard MCLB Barstow a daily habit.
- Recycling is the simplest way to preserve the Earth's valuable resources.
- By reusing, recycling, and being smarter in the amounts and types of materials used, people can save energy, use fewer resources, and save landfill space.
- Remember to empty all cans and bottles before depositing in recycle bins.
- Do not put recycle materials in plastic bags – except for shredded paper.
- Please do not put any trash or food in the recycle bins.
- Blue bin recycling cans and Cardboard Dumpsters are available.
- **PLEASE HELP US RECYCLE!**



Qualified Recycling Program (cont.)

Nebo 4-part recycling bins.
Cans / Plastic / Glass / Plastic

Yermo has Blue Bins only.

Nebo Only

There is White Paper Only Pickup.

There is no Recycle Pickup on MCLB Barstow – Nebo.

Recycle Collection Bins are located outside Bldg 146.

Wednesday Recyclables, Plastic Bottles, Aluminum Cans, and Glass Bottles (CRV) Only.
A QRP Staff Member will be on Site at Bldg. 146 for Recycle Collection.

IMPORTANT REMINDER

DO NOT BRING RECYCLABLES TO BLDG. 196!

For more information or cans, please contact:

QRP Quality Recycling Program Manager

(760) 577-5865



Qualified Recycling Program (cont.)



Yermo Annex



Nebo Annex



NATURAL AND CULTURAL RESOURCES





Natural and Cultural Resources (cont.)



NATURAL RESOURCES

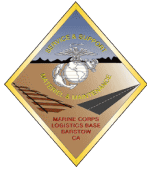




Natural and Cultural Resources (cont.)



- Natural Resources are landforms, soil, water, plant, wildlife, or any material that occurs naturally.
- Preservation of the natural environment is important for maintaining and sustaining our communities.
- The presence of Desert Tortoises, water resources, and migratory birds presents many issues that are common to the base.
- Many laws were enacted to preserve our natural resources. Some of these laws include the Endangered Species Act (ESA), the Migratory Bird Treaty Act (MBTA), and the Bald and Golden Eagle Protection Act.
- Preservation of the extensive existing natural resources will continue to be a high priority aboard MCLB Barstow.

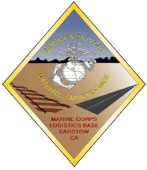


Natural and Cultural Resources (cont.)



Remember the following about the ESA:

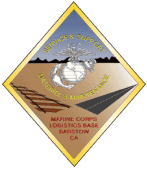
- Enacted by Congress in 1973, findings:
 - Some species of fish, wildlife, and plants are now extinct, “ as a consequence of economic growth and development untampered by adequate concern and conservation”.
 - Species have aesthetic, ecological, educational, historical, recreational, and scientific value.
- Purpose: “...to provide a means whereby the ecosystems upon which endangered and threatened species depend may be conserved...”, and to provide a program for the conservation of such endangered species and threatened species”.
- Policy of Congress: “ All Federal departments and agencies shall seek to conserve endangered and threatened species and **shall utilize their authorities in furtherance** of the purpose of the act.”
- Endangered: Any species in danger of extinction throughout all or a significant portion of its range.



Natural and Cultural Resources (cont.)

- Threatened: Any species likely to become endangered in the foreseeable future.
- Touching, hunting, harming, harassing, shooting, killing, injuring, capturing, collecting, pursuing, buying, selling, trading, transporting, or attempting to do any of the listed behaviors with a protected species is prohibited and punishable.

An example of a threatened species under this act is the Desert Tortoise and its Critical Habitat – Rifle Range.

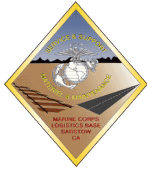


Natural and Cultural Resources (cont.)



The following regulations are enforced across MCLB Barstow:

- Marine Corps Order 5090.2, Environmental Compliance and Protection Manual.
- ESA – Endangered Species Act
- MBTA - Migratory Bird Treaty Act
- BGEPA- Bald and Golden Eagle Protection Act
- MLCB Integrated Natural Resources Management Plan
 - 5-year plan/agreement, signed by CO, USFWS, and California Dept. of Fish and Wildlife
- Biological Opinion for Operations and Maintenance at MCLB Barstow, initiated through Section 7 consultation with U.S. Fish and Wildlife Service (USFWS) during the Training and Range EA.



Natural and Cultural Resources (cont.)

- The Migratory Bird Treaty Act is the law Prohibits anyone, without a permit from the Secretary of the Interior, from ‘taking’ Bald and Golden Eagles, including their parts, nests, or eggs.
- The framers of this act were determined to put an end to the commercial trade in birds and their feathers that, by the early years of the 20th century, had wreaked havoc on the populations of many native bird species.
- Dictates criminal penalties for persons who ‘take’, possess, sell, purchase, barter, offer to sell, purchase, transport, export or import, at any time or any manner, any Bald or Golden Eagle, alive or dead, or any part, nest or egg.
- Definition of ‘take’ – pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest, or disturb.
- Definition of ‘disturb’ – to agitate or bother a Bald or Golden Eagle to a degree that causes or is likely to cause:
 - 1) Injury to an Eagle,
 - 2) A decrease in its productivity, or
 - 3) Nest abandonment

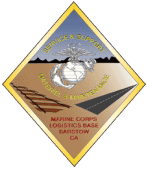


Natural and Cultural Resources (cont.)



MOJAVE DESERT TORTOISE (*GOPHERUS AGASSIZII*)

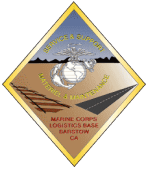




Natural and Cultural Resources (Cont.)

- The Rifle Range is the official habitat of the Desert Tortoise on MCLB Barstow to include the 540 acres of Critical Habitat on the southern portion of the Range.
- Tortoises can be found anywhere on the installations (Nebo and Yermo).
- Active mainly in the morning, evening, and during rain events.
- Protected by the Endangered Species Act
- Listed as a threatened species (both federal and state level), listed in 1990
- Spends most of its time underground (burrows) avoiding extreme temperatures (up to 95%); they dig burrows and are often under shrubs. Tortoises utilize road grades, therefore, it is important to be aware and stay on designated roads as burrows can be easily crushed.
- Active March through June and again in the fall, however, can be out earlier and later in the year depending on weather conditions.
- Lives approximately 60-80 years.
- Eats tender grasses, broad-leaf annuals, and new perennial shoots, relies on winter and spring rain for desert wildflowers.

We follow a policy of “Hands Off Partner!”



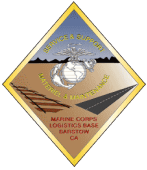
Natural and Cultural Resources (cont.)

Do:

- Check for desert tortoise before driving (while at the range).
- Drive only on designated roads.
- Follow all speed limits and posted signs.
- Prevent depredation by properly disposing of trash.
- Follow established procedures if a tortoise is found or is in immediate danger.
- Report if a desert tortoise is accidentally killed or injured, you will not be in trouble if a tortoise is accidentally killed.

Do Not:

- Pick up or handle the animal unless in immediate danger.
- Harm, harass, pursue, hunt, kill, trap, shoot, capture, collect, transport, buy, sell, or trade a desert tortoise.
- Drive off-road unless in a designated off-road area (No off-road area at MCLB)
- Remove Desert Tortoise from the desert
- Release pet Desert Tortoise in the desert



Natural and Cultural Resources (cont.)

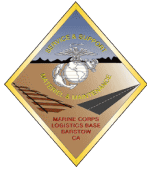


Fines for Violation of the Law

- State of California Fine of **\$5,000**, a year in Jail, or both.
- Federal Fine up to **\$50,000**, a year in Jail, or both.

There are no penalties if a Desert Tortoise is accidentally killed, and it is reported ASAP to the Environmental Division.

**Natural Resources Manager
(760) 577-6318**

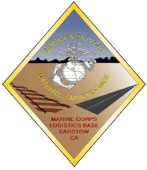


Natural and Cultural Resources (cont.)



CULTURAL RESOURCES





Natural and Cultural Resources (cont.)



Cultural Resources are any prehistoric or historic district, site, building, structure, place, or object considered important to a culture or community for scientific, traditional, religious, or cultural reasons.

- Important laws were created to prevent damage and destruction of culturally significant sites and artifacts.
- The Marine Corps has the responsibility to oversee and manage the land we use by complying with these laws.

MCLB Barstow contains cultural resources that you might be familiar with.

One of them, Rattlesnake Rock, is an archeological site located on an outcrop of rocks on base in the Yermo area. It consists of multiple petroglyphs in the shape of circles and lines. The base erected a chain-link fence in the 1980's to protect the petroglyphs from vandalism.



Natural and Cultural Resources (cont.)



To protect cultural resources on the installation, please observe off-limit areas, and follow the requirements of:

- The Archaeological Resource Protection Act (ARPA),
- The National Environmental Policy Act (NEPA),
- The National Historic Preservation Act (NHPA),
- The Native American Graves Protection & Repatriation Act of 1990 (NAGPRA), and
- Avoid off-limit areas, including petroglyphs and historic sites.

Report any “unanticipated discoveries” to the Environmental Division.

**Cultural Resources Manager
(760) 577-6318**



ENVIRONMENTAL TRAINING





Environmental Training (cont.)

MarineNet, USMC Waypoints, and Environmental Compliance Assessment, Training, and Tracking System (ECATTS) websites provide online environmental training and information to both military and civilian personnel aboard MCLB Barstow. CD/DVDs are available through CETEP. Classroom Training is provided by CETEP and CECOS.

Available Courses Include:

- Air Quality Training
- Environmental Awareness for Commanders (COs) and S3 and S4 Officers
- MCLB Barstow General Environmental Awareness
- Environmental Management System(EMS) Awareness (ECCs, PGPs, HW)
- Mission Impact: Environmental Compliance Coordinators
- Universal Waste

**Comprehensive Environmental Training and Education Program (CETEP)
Coordinator
(760) 577-6890**



Environmental Training (cont.)



****Option 1****

MarineNet Distance Learning

<https://www.marinenet.usmc.mil/my.policy>

****Option 2****

CECOS – Naval Civil Engineer Corps Officers School Environmental Training

<https://www.denix.osd.mil/cecos/home/>



****Option 3****

Cathey L. De Vault - Donaldson, CETEP Coordinator, 577-6890

MCLB Barstow General Environmental Awareness & EMS Awareness, SPCC, & Various Environmental Training CD's or DVD's

****Option 4****

USMC Waypoints

https://usmc.sharepoint-mil.us/sites/DCMRA_waypoints



CHART YOUR USMC CAREER

**** Option 5****

Contractor and Tenant Environmental Training

ECATTS – Environmental Compliance Assessment, Training, and Tracking System

<https://environmentaltraining.ecatts.com/home>





NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)





NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)



National Environmental Protection Act (NEPA) of 1969

- A United States law that established a national policy promoting the enhancement of the environment.
- Established the President's Council on Environmental Quality.
- NEPA requires federal agencies to consider environmental impacts of proposed actions in the decision-making process.
- Typical actions which may have potential to impact the environment may include construction or management activities (for example: MILCON projects, public or private venture projects, special projects, land acquisition).
- NEPA requires full public disclosure of environmental impacts, alternatives, and mitigation measures expected from proposed actions.

**NEPA Program Manager
(760) 577-6836**



WATER QUALITY





Water Quality

Where does MCLB Barstow's Water Come From?

Nebo – receives its water from the Barstow System of Golden State Water Company, which delivers groundwater pumped from the Mojave River Basin-Centro subbasin.

- Received water flows into a main ground-level holding reservoir, chlorinated for disinfection, and pumped to the distribution system and upper-level reservoir for use.

Yermo Annex - receives its water from three groundwater wells located on the Annex.

- Water is pumped from the ground into ground-level holding reservoirs.
- Water is chlorinated for disinfection and pumped into the distribution system for use.
- An elevated reservoir maintains water pressure in the system.
- MCLB Barstow routinely monitors for constituents in the drinking water according to Federal and State Laws.

MCLB Barstow Water is Safe for Drinking, Swimming, Bathing!

**Water Program Manager
(760) 577-6982**



ENVIRONMENTAL AWARENESS TRAINING REVIEW



- Environmental Management System (EMS)
- Environmental Laws and Regulations
- Non-Compliance
- The Cost of Non-Compliance
- Hazardous Waste
- Spill Information
- Air Quality
- Pollution Prevention
- Recycling
- Natural Resources
- Cultural Resources
- Desert Tortoise
- Environmental Training
- National Environmental Policy Act (NEPA)
- Water Quality



"THAT'S THE END OF MY PRESENTATION. ANY QUESTIONS?"



Welcome to MCLB Barstow!



FY25 General Environmental Awareness



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Dated: **202501270930L**

- **MCLB Barstow Points of Contact:**

Dexter D. Robeson
 MCLB Barstow S-F Facilities,
 Environmental Director
 Office: 760-577-6937
 NIPR: dexter.robeson@usmc.mil

Miguel A. Arandaguillen
 MCLB Barstow S-F Facilities,
 Environmental Services Branch Supervisor
 Office: 760-577-6784
 NIPR: miguel.arandaguillen@usmc.mil

Cathey L. De Vault - Donaldson
 MCLB Barstow S-F Facilities,
 CETEP Coordinator
 Office: 760-577-6890
 NIPR: cathey.donaldson@usmc.mil