

MARINE CORPS AIR STATION MIRAMAR



ENVIRONMENTAL AWARENESS



Pollution Prevention

Conservation

Compliance

Program & Fiscal Management

COs Environmental Policy Statement



Commanding Officer, MCAS Miramar
Environmental Policy Statement



Marine Corps Air Station (MCAS) Miramar is the Marine Corps' premier Air Stations and one of the Department of Defense's (DOD) busiest and most strategically located Air Stations. MCAS Miramar is located in the center of a constellation of Marine and Navy installations and ranges in the Southwestern United States, which is ideal for unimpeded access to the training needed to support combat readiness and on order, act as a power projection platform in support of Joint Force operations in Indo-Pacific Command.

We take great pride in being a part of the San Diego community and appreciate the partnership and unwavering support from "America's Finest City." The Marine Corps recognizes its responsibility to San Diegans to maintain stewardship of the Air Station by preventing unnecessary hazards while supporting all aircraft operations from 3d Marine Aircraft Wing (MAW). MCAS Miramar's Environmental ethos is based on a commitment to compliance with Federal, State and Local environmental regulations in order to preserve natural and cultural resources and to mitigate environmental and health risk while sustaining realistic military training and testing for future generations of Marines. Through promoting a culture of compliance, MCAS Miramar will conduct mission planning, decision making, training, and daily operations in a manner that demonstrates a commitment to:

- Compliance with applicable environmental laws, regulations, and policy in practice and planning;
- Implementation and improvement of Environmental Management Systems that enhance the capability of MCAS Miramar to support 3d MAW training and reduce risks to mission and the environment;
- Conserve MCAS Miramar natural and cultural resources;
- Remediate contaminated sites that are the result of past practices;
- Prevent pollution to protect the environment and minimize the burden and cost of compliance, and prevent spills;
- Proper disposal of solid, hazardous and universal wastes to reduce impacts the environment and avoid environmental violations that take vital funds away from mission-related activities;
- Sustainability through renewable energy, resource reduction and recycling;
- Partner with other federal, state and local resource agencies to share successes and lessons learned to maximize the return on the Marine Corps investment in environmental compliance and conservation.

MCAS Miramar's emphasis on environmental stewardship is based on the four foundational pillars of compliance, conservation, environmental restoration, and pollution prevention. Through incorporating these principles in our daily activities and future plans we will succeed in environmental management which will produce improvements in training opportunities, maximize resources, and support the broader Marine Corps mission. MCAS Miramar communicates this policy to all levels of the organization and station tenants in order to increase environmental awareness. This policy, along with environmental goals and objectives and other elements of the Station Environmental Management System, are available to all hands and the public at <http://www.miramar-ems.marines.mil/>.


T. M. BEDELL

MCAS MIRAMAR ENVIRONMENTAL MISSION



Compliance

With all Environmental
Regulations

Preserve

Cultural & Natural Resources

Mitigate

Environmental & Health Risks

Maintain

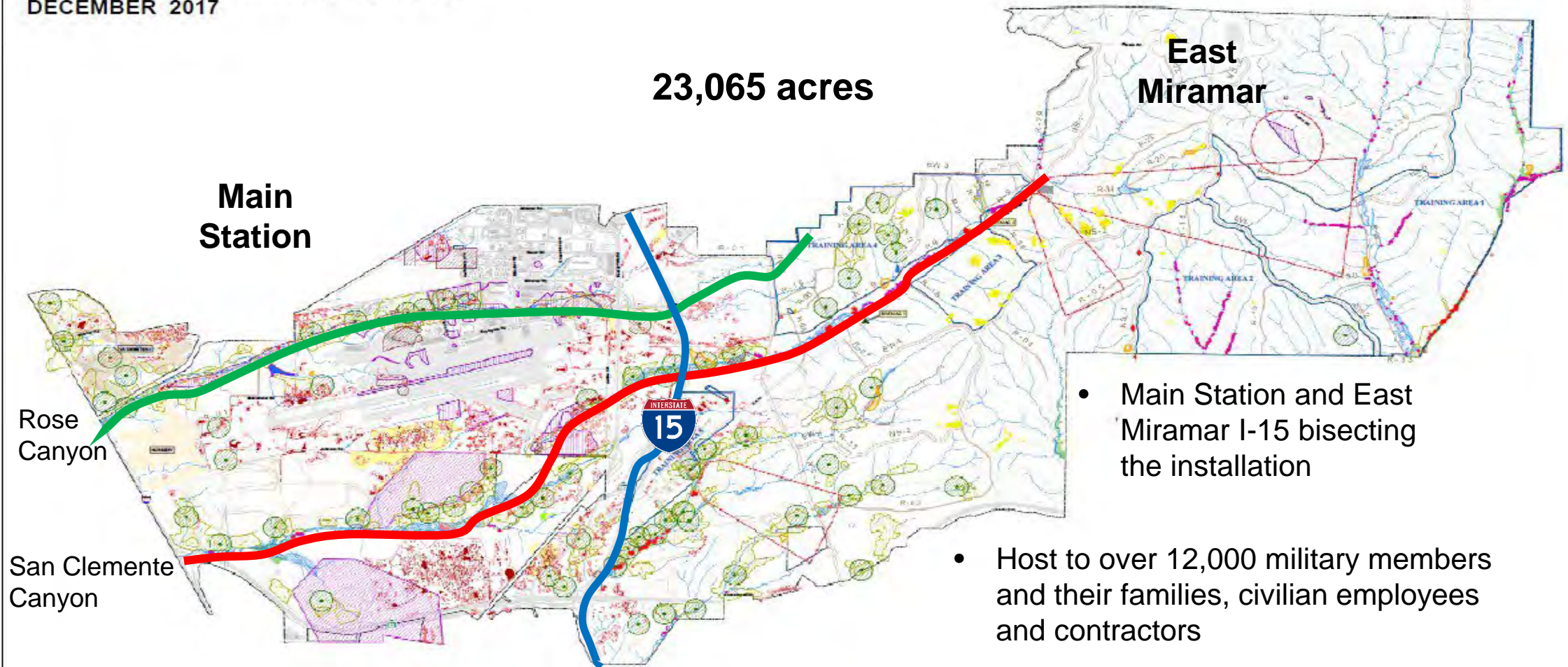
Good Stewardship

Sustain

Realistic Training & Testing for
Future Generations of Marines

MCAS MIRAMAR GEOGRAPHY

MCAS MIRAMAR
SENSITIVE RESOURCES AND
ENVIRONMENTAL RESTORATION SITES
DECEMBER 2017



Ecosystem -- environmentally sensitive areas,-- threatened or endangered animal species,-- plant life, -- vernal pools, -- storm water drain systems that drains into Mission bay via San Clemente Canyon and Rose Canyon.

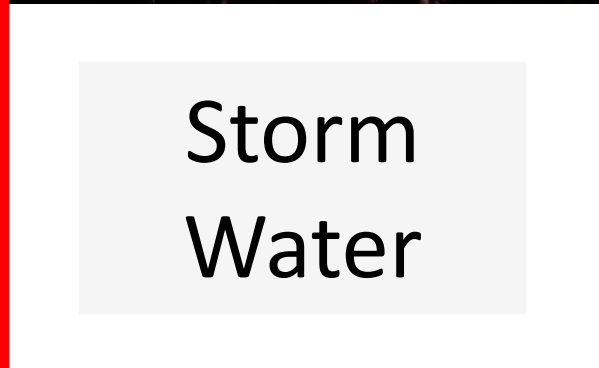
ENVIRONMENTAL PROGRAMS



Natural &
Cultural
Resources



Air
Quality



Storm
Water



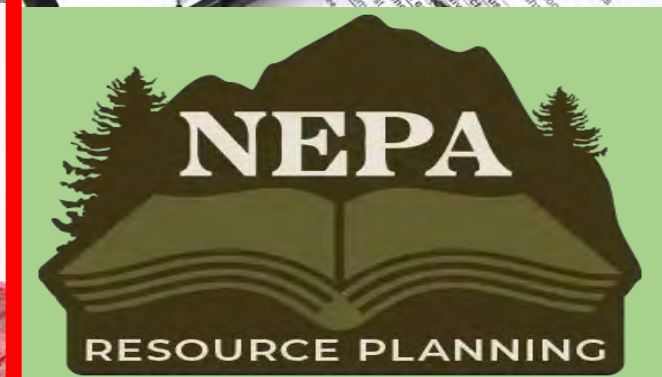
SPCC/Tank
Management



Waste
Management



CETEP/ EMS



NATURAL & CULTURAL RESOURCES PROGRAM

11 THREATENED OR ENDANGERED SPECIES

Endangered Species Act (ESA)

ILLEGAL TO "TAKE"

HARASS, HARM, PURSUE

HUNT, SHOOT, WOUND, KILL

TRAP, COLLECT

FINES IMPRISONMENT



Fairy Shrimp Vernal Pools

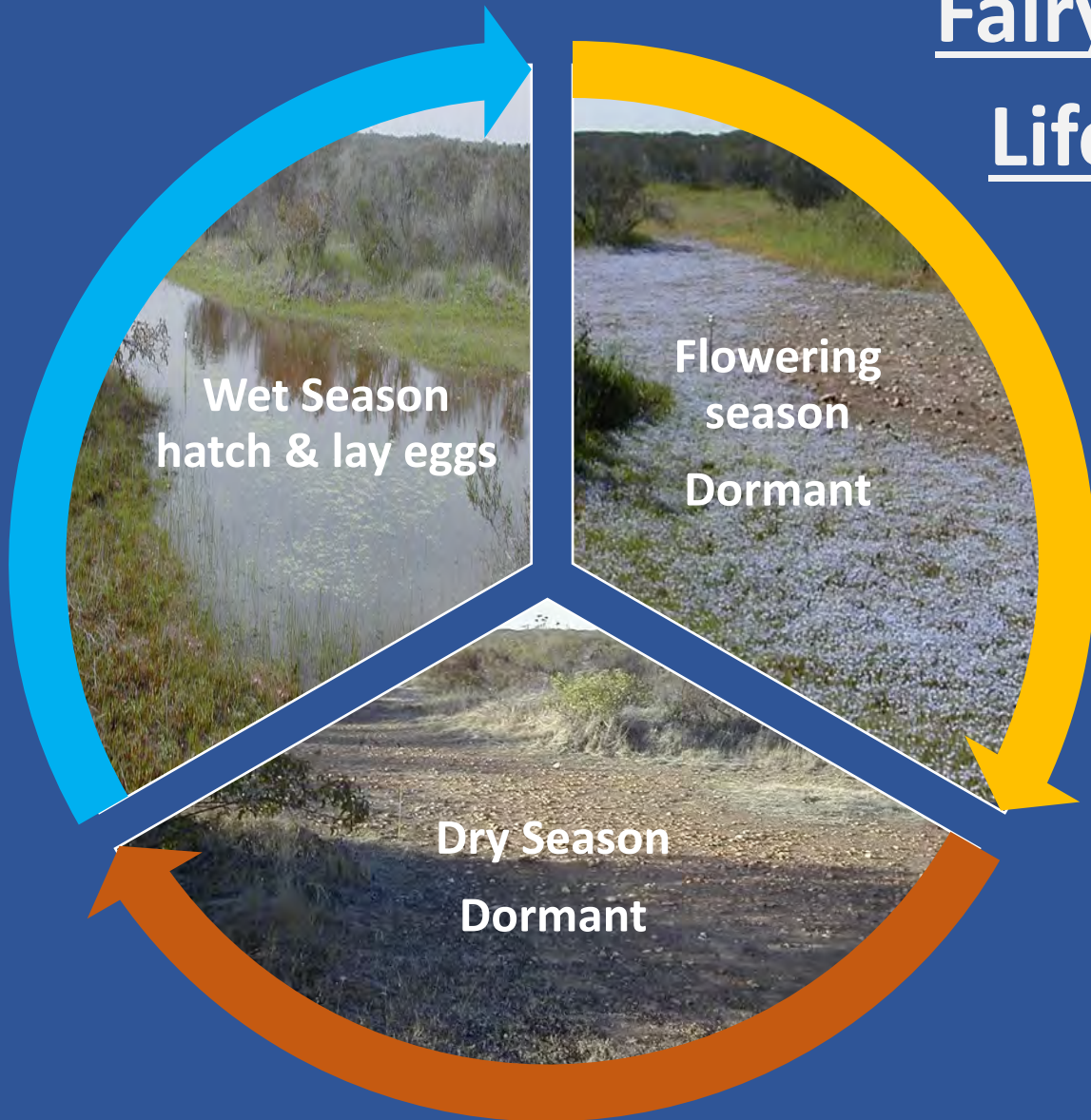
Fairy shrimp Life-Cycle

- MCAS Miramar supports 80% of San Diego Fairy Shrimp Population
- Size: 0.4 - 0.6 inch.



Fairy Shrimp Vernal Pools

Fairy shrimp Life-Cycle



Fairy Shrimp Vernal Pools



NEGLIGENT SPREADING

**DRIVING OR WALKING
THROUGH VERNAL POOLS**

**TRANSFERRED IN TIRES,
SHOES & EQUIPMENT**

**CREATES NEW PROTECTED
AREAS**

ELIMINATE SPREADING

STAY ON MARKED ROADS

NO OFF-ROADING

**RESPECT SIGNS & MARKED
AREAS**



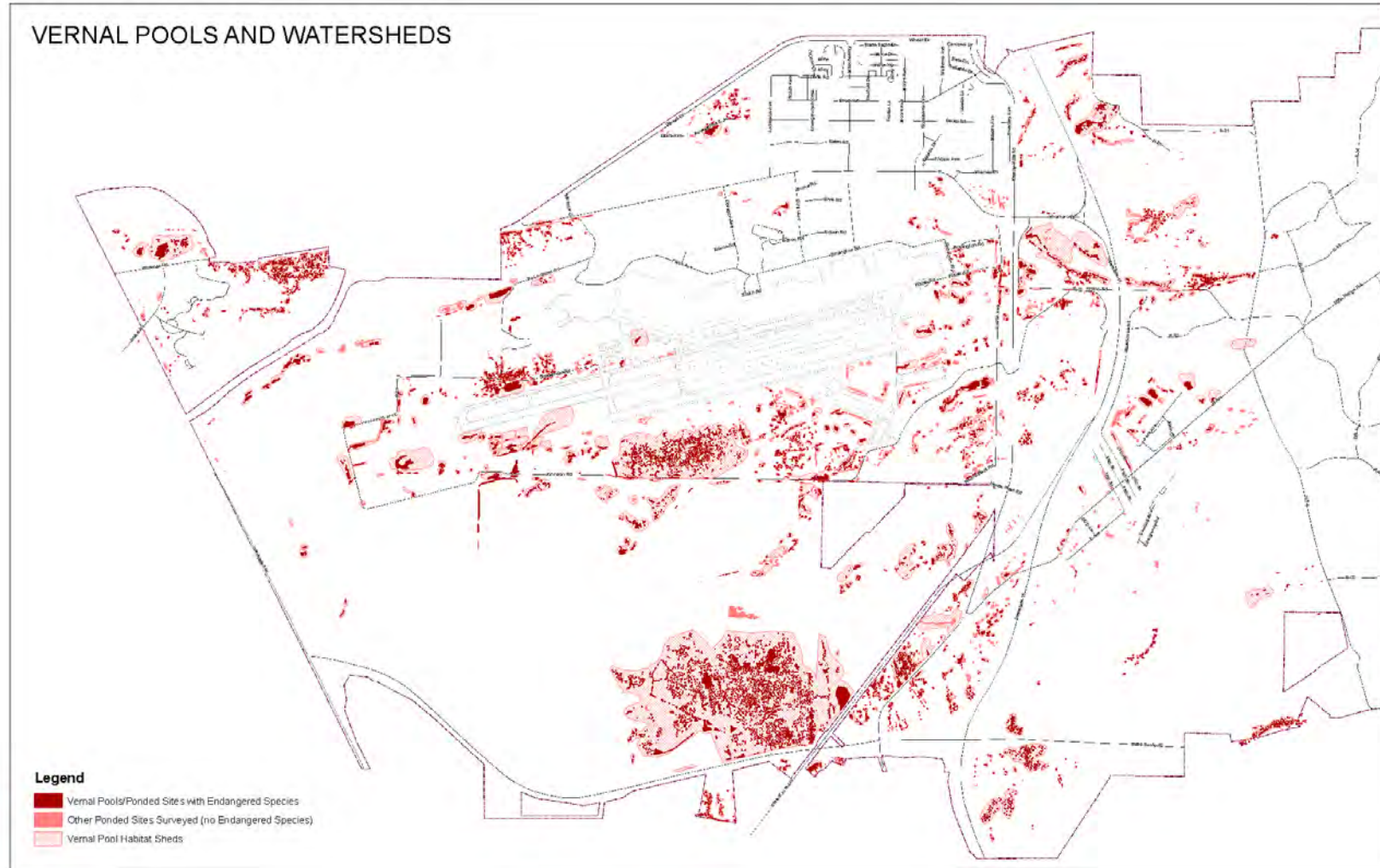
Fairy Shrimp Vernal Pools

Vernal Pool Sites

**Over 4700 Vernal Pools in
MCAS Miramar**

**Over 4000 Basins
Containing Fairy Shrimp**

**Various Endangered Animal
& Plants Inhabit Vernal
Pools**



MIGRATORY BIRDS



MIGRATORY BIRD TREATY ACT

UNLAWFUL PURSUE, HUNT, KILL
CAPTURE, POSSESS

POSSESS, SELL, PURCHASE OR
BARTER

INCLUDES BIRDS, FEATHERS,
NEST OR EGGS

ACTIVE BIRD NESTS

FINES OR IMPRISONMENT

PREVENTIVE MAINTENANCE



Other Species aboard MCAS Miramar



**PROTECTED
&
DANGEROUS
SPECIES**



**LEAVE WILDLIFE
ALONE CONTACT
Public Works Help
Desk for removal
(858)307-1609/1619**



AIR QUALITY PROGRAM- PRACTICES

PERMITTED SITES & PRACTICES

ENGINE EMISSIONS

FUELING OPS

BOILERS

HAZMAT / HAZ WASTE

PAINTING / COATING

SANDING / BLASTING

SOLVENT CLEANING



STORM WATER PROGRAM



Runoff

-Water washes over roads, parking lots, industrial areas collecting pollutants then deposits into ponds, lakes, rivers oceans

Collection/Discharge

All MCAS Miramar Storm Drains discharge into Rose Canyon & San Clemente Canyon



STORM WATER PROGRAM

CONTAMINATION POTENTIAL

EQUIPMENT WASH
DOWNS IN
UNAUTHORIZED AREAS

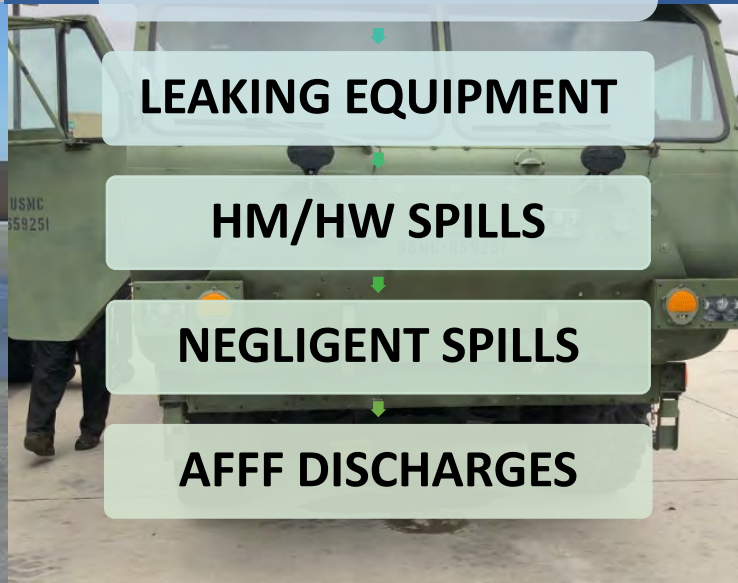
MISMANAGEMENT OF
HM/HW

LEAKING EQUIPMENT

HM/HW SPILLS

NEGLIGENT SPILLS

AFFF DISCHARGES



STORM DRAIN POLLUTION PREVENTION STRATEGIES

BEST MANAGEMENT PRACTICES & SOPs

SPILL RESPONSE TRNG

SPILL KITS

USE ONLY DESIGNATED WASH RACKS

IDENTIFY POTENTIAL LEAKS

USE & EMPTY DRAIN PANS

SECONDARY CONTAINMENT

GOOD HOUSEKEEPING



WASTE MANAGEMENT PROGRAM

TYPES OF WASTES:

- Hazardous waste
- Universal waste
- Medical waste
- Recyclables
- Solid waste



WASTE MANAGEMENT PROGRAM

HAZARDOUS WASTE

Hazardous material that has been used, discarded, abandoned or expired.

Only personnel that have received proper training can handle and manage Hazardous Waste

HAZARDOUS WASTE	
FEDERAL AND/OR STATE LAWS PROHIBIT IMPROPER DISPOSAL IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY, THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF HEALTH.	
GENERATOR INFORMATION:	
NAME _____	
ADDRESS _____ PHONE _____	
CITY _____ STATE _____ ZIP _____	
EPA ID NO.	MANIFEST DOCUMENT NO.
EPA WASTE NO.	CA WASTE NO.
ACCUMULATION START DATE _____	
CONTENTS COMPOSITION _____	
PHYSICAL STATE: <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID	
HAZARDOUS STATE: <input type="checkbox"/> FLAMMABLE <input type="checkbox"/> TOXIC	
<input type="checkbox"/> CORROSIVE <input type="checkbox"/> REACTIVITY <input type="checkbox"/> OTHER	
D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX	
HANDLE WITH CARE!	



WASTE MANAGEMENT PROGRAM

UNIVERSAL WASTE

Hazardous wastes widely produced by households and businesses

Must be handled, managed and disposed of properly
Includes:

- Batteries
- Pesticides
- Mercury-Containing Equipment
- Lamps
- Aerosol Cans

UNIVERSAL WASTE	
SHIPPER _____	
ADDRESS _____	
CITY, STATE, ZIP _____	
CONTENTS _____	
ACCUMULATION START DATE _____	



WASTE MANAGEMENT PROGRAM

MEDICAL WASTE/BIOHAZARD

Healthcare waste contaminated by blood, body fluids, or potentially infectious material

Must be handled managed and disposed of properly

Includes:

- Body Tissue/fluids
- Equipment
- Needles/blades
- Pharmaceuticals
- Chemicals/liquids



WASTE MANAGEMENT PROGRAM

RECYCLING

DIVERT FOR REUSE

REDUCE WASTE

REDUCES WASTE
DISPOSAL COSTS

GENERATES REVENUE

REDUCES POLLUTION

HELPS THE ENVIRONMENT



WASTE MANAGEMENT PROGRAM

SOLID WASTE HANDLING

NO HAZARDOUS WASTE

NO UNIVERSAL OR
MEDICAL WASTE

NO RECYCLABLES

DO NOT OVERFILL

CLOSE LIDS

DO NOT MOVE OR
RELOCATE CONTAINERS

NO ILLEGAL DUMPING



**Solid Waste/Recycling Center
(858) 307-8872**



POLLUTION PREVENTION - P2

P2 ENVIRONMENTAL MANAGEMENT STRATEGIES

SOURCE REDUCTION

- Validate Work Practices
- Reduce Quantity Used
- Only Purchase Qty. Needed
- Replace HM with less Hazardous Material

RECYCLE

- Turn-in Unexpired HM to HAZMIN for Re-issue
- Extend Expiration dates (HAZMIN)
- Rotate HM with shelf-life
- Less HM = Less HW

RE-USE

- Red Rag Program (HAZMIN)
- Check HAZMIN stock before purchasing
- Wringers for Spill Soak Pad
- Dry-Sweep

EDUCATE

- HWC Certified personnel
- Environmental Awareness Training (ALL)
- Proper HW Management



WASTE MANAGEMENT PROGRAM



HELP PREVENT THIS
FROM HAPPENING

**Solid Waste/Recycling
Center
(858) 307-8872**



TRAINING INFORMATION

ENVIRONMENTAL MANAGEMENT DEPARTMENT OFFERS:

- Hazardous Waste Coordinator (HWC)
- Environmental Compliance Coordinator (ECC)
- MOS 8056 HM/HW SNCO/Officer
- Spill Drill

ONLINE TRAINING OPPORTUNITIES:

- MarineNet Environmental Courses
- CECOS, ECATTS, DLA

Contact: P. Mike Corona

CETEP Coordinator

Email: paul.corona@usmc.mil

Phone: (858) 307-1306





KNOWLEDGE CHECK

Where should these go?



KNOWLEDGE CHECK

Dumpster



KNOWLEDGE CHECK

Where should these go?



KNOWLEDGE CHECK

Recycling Bin



KNOWLEDGE CHECK

Where should these go?



KNOWLEDGE CHECK

MCAS Miramar Recycling Center



KNOWLEDGE CHECK

Where should this go?



KNOWLEDGE CHECK

Recycling Bin



KNOWLEDGE CHECK

Where should this go?



KNOWLEDGE CHECK

MCAS Miramar Recycling Center



KNOWLEDGE CHECK

Where should this go?



KNOWLEDGE CHECK

60-Day Hazardous Waste Site

UNIVERSAL WASTE	
SHIPPER _____	
ADDRESS _____	
CITY, STATE, ZIP _____	
CONTENTS _____	
ACCUMULATION START DATE _____	



KNOWLEDGE CHECK

Where should this go?



KNOWLEDGE CHECK

MCAS Miramar Recycling Center



KNOWLEDGE CHECK

Where should this go?



KNOWLEDGE CHECK

60-Day Hazardous Waste Site



KNOWLEDGE CHECK

Where should you do this?



KNOWLEDGE CHECK

Auto Skills Center



KNOWLEDGE CHECK

Where should this go?



KNOWLEDGE CHECK

Cardboard Recycling Containers



KNOWLEDGE CHECK

Where should this go?



KNOWLEDGE CHECK

60-Day Hazardous Waste Site

UNIVERSAL WASTE	
SHIPPER _____	
ADDRESS _____	
CITY, STATE, ZIP _____	
CONTENTS _____	
ACCUMULATION START DATE _____	



KNOWLEDGE CHECK

Where should this go?



KNOWLEDGE CHECK

60-Day Hazardous Waste Site



KNOWLEDGE CHECK

Where should this go?



KNOWLEDGE CHECK

Recycling Bin



KNOWLEDGE CHECK

Where should this go?



KNOWLEDGE CHECK

MCAS Miramar Thrift Store



KNOWLEDGE CHECK

Questions?

