



U.S. Army Garrison, Hawaii Environmental Compliance Program



Quarterly Environmental Compliance Training





TRAINING OBJECTIVES

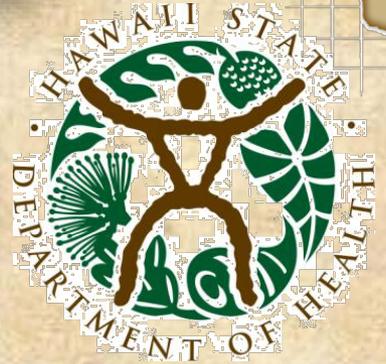


- ✓ Environmental Laws and Regulations
- ✓ Army Sustainability
- ✓ USARHAW Recycling Program
- ✓ Storm Water Pollution Prevention
- ✓ Spill Prevention and Response
- ✓ Hazard Communication
- ✓ Hazardous Material Management
- ✓ Waste Management
- ✓ Used Oil Management
- ✓ Hazardous Waste Management and Minimization
- ✓ Environmental Compliance
- ✓ Pohakuloa Training Area



Environmental Laws & Regulations

- Federal
- State
- DoD/Army
- Installation



States and countries may have different environmental regulations, therefore, USARHAW regulations may be different than on other installations!



Federal

- *National Environmental Policy Act*
- *Resource Conservation Recovery Act*
- *Clean Water Act*
- *Clean Air Act*
- *National Historic Preservation Act*
- *Endangered Species Act*
- *Noise Control Act*

DoD/Army

- *AR 200-1, Environmental Protection and Enhancement*

State

- *Hawaii Administrative Rules*

Installation

- *USARHAW Policy Letter 12, Environmental Compliance and Protection Program*
- *Policy Memo USAG-HI-10, Environmental Policy*
- *Policy Memo USAG-HI-19, Authorized Use List*
- *Policy Memo USAG-HI-25, Waste Reduction and Recycling*



Army Sustainability

Triple Bottom Line of
Sustainability:

Mission,
Environment, and Community.



Sustainability means providing these necessary, interdependent components to meet the missions of today as well as those of tomorrow.

Sustainable Environmental Management (SEM) system is the tool U.S. Army Hawaii uses to ensure we meet the requirements of **ISO 14001**, an internationally recognized standard for environmental management.





SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT

U.S. Army-Hawaii



ARMY SUSTAINABILITY



U.S. ARMY HAWAII ENVIRONMENTAL POLICY

28 Jun 2013

While always balancing the unique considerations of Mission, Community and the Environment, U.S. Army Hawaii will continuously strive to improve its environmental performance and seek to:

- **Lessen our Environmental Footprint and Prevent Pollution;**
- **Minimize our Impact on the Hawaiian Land;**
- **Conserve, Preserve and Protect our Natural and Cultural Resources;**
- **Comply with All Applicable Environmental Laws and Regulations.**



Our Guiding Principles

We will instill a sustainable ethic in everything we do, acknowledging the Army's global responsibility for environmental stewardship.

We will act locally to perpetuate a harmonious balance with Hawaii's unique economic, natural and cultural resources by educating our workforce to perform their everyday duties in a Pono manner.

We will preserve and protect today's resources for tomorrow.

We will nurture the trust of the Hawaiian Community, working in concert for the benefit of all in Hawaii.

We will do this in concert with our solemn obligation to the American people to prepare combat ready forces capable of deterring conflict, defending our homeland, and winning our Nation's wars.

Our Commitment

- **Conserve Energy and Water**
- **Reduce Waste, Reuse Materials and Increase Recycling**
- **Seek Alternatives and Lower Fuel Consumption and Air Pollution**
- **Protect Hawaii's Ground and Surface Waters**
- **Purchase Green Products When Available and Economically Reasonable**

DPIV Environmental Division Admin: 656-2878

Spill Line: 656-1111

Recycling: 656-3085

Website: <http://www.garrison.hawaii.army.mil/sustainability/Environmental.aspx>

Unit ECO Name: _____ Phone #: _____

BEM Name: _____ Phone #: _____



Be Pono Everydays. Do What is Right for the Life of the Land.

USARHAW Environmental Policy

KEY POINTS:

The Right Way:

- Comply with environmental regulations.
- Do what is right legally, ethically and morally.

The Green Way:

- Prevent pollution
- everyone of us can do the 'little things':
conserve, preserve, prevent.

All The Way:

- Continually Improve
- Sustainable US Army Hawaii is a 'mind-set'

Make Sustainability a consideration in all you do!



SEM GOALS



Reduce water and energy use



Eliminate pollution



Increase recycling



Prevent hazardous spills



Reduce use of hazardous materials



Choose green products

Living sustainably is a way of life...Do Your Part!



WHAT YOU MUST DO:



CONSERVE OUR LAND



**COMPLY WITH
REGULATIONS**



**PRESERVE OUR
CULTURAL
RESOURCES**



CONSERVE ENERGY



CONSERVE WATER



**REDUCE FUEL
CONSUMPTION**

Sustaining the Environment for a Secure Future



WHAT YOU MUST DO:



CAUTION
LEAD PAINT AREA
POISON - NO SMOKING
EATING OR DRINKING

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER & LUNG DISEASE HAZARD

CONSULT DPW BEFORE YOU BEGIN A SELF-HELP PROJECT



REDUCE HAZARDOUS MATERIAL USE AND HAZARDOUS WASTE GENERATION



REDUCE WASTE, RECYCLE MORE

Sustaining the Environment for a Secure Future



Army Recycling Center
Building 1087-B
McMahon Rd
Schofield Barracks, HI 96857



**Request
Pick-up**

- Cardboard (breakdown, bundle and keep dry)
- Recycling bins/Office paper
- Scrap metal
- Pallets



**Drop off
at ARC**

- Wood waste
- Green waste

Army Recycling Center (ARC): (808) 655-0011
Recycling Program Manager: (808) 656-5411



**PLEASE DO NOT PUT THE FOLLOWING ITEMS IN
THE REFUSE DUMPSTERS**

- Cardboard
- Green waste
- Metals
- Furniture/Mattresses
- Construction Debris
- Appliances/equipment, tires, and batteries
- Hazardous waste

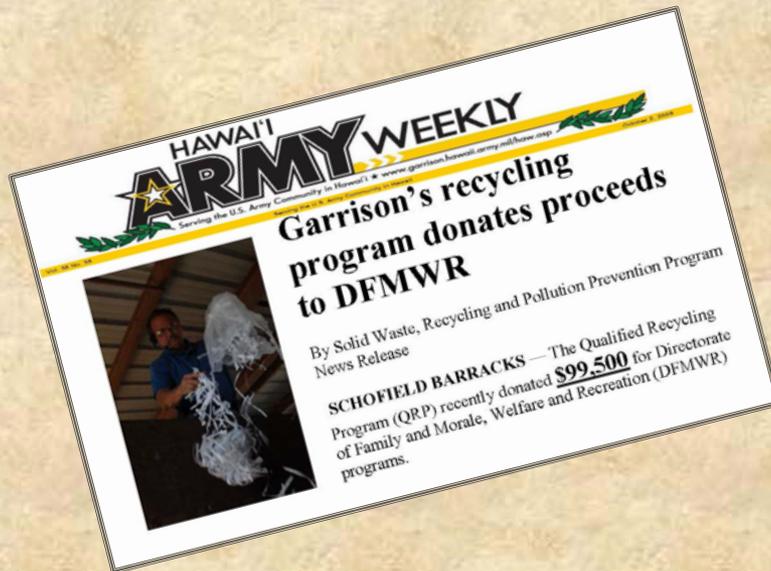


NO CARDBOARD IN DUMPSTERS!

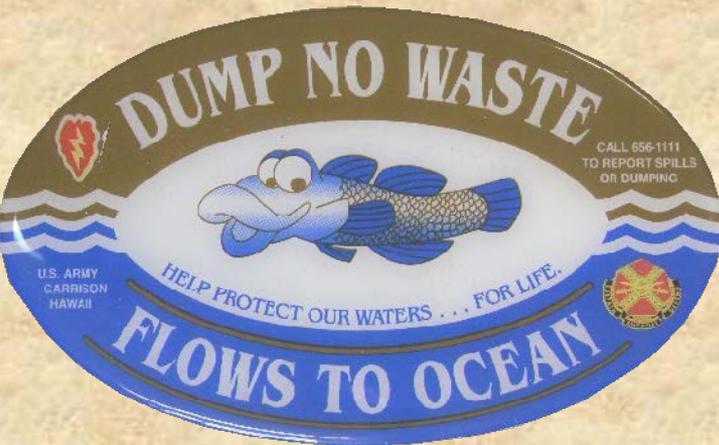


QUALIFIED RECYCLING PROGRAM (QRP)

A portion of the revenue generated from recyclables are put back into the garrison by funding environmental/health & safety projects and DFMWR projects/events .



This year the QRP disbursed \$100,000 toward DFMWR special events.



Anything that enters a storm drain is discharged into the waterbodies we use for swimming, fishing, and providing drinking water.



- Know where storm drains are and protect them in the event of a spill.
- Prevent fuel, oil, grease, antifreeze, and foreign material from going down a drain— **even if it is equipped with an oil-water separator or grease trap.**

ONLY RAIN DOWN THE DRAIN!



STORM WATER POLLUTION PREVENTION



DRIP PANS:

- Place drip pans under parked vehicles.
- Empty oil from drip pans into collection drum.
- Use white “oil-only” pads to remove POL sheen before discharging water from drip pans.



MAINTENANCE:

- Whenever possible, perform maintenance activities indoors.
- Always perform maintenance involving fluid changes indoors.
- Don't leave engines or other oily parts exposed to the elements when no maintenance is occurring.



WASTE MANAGEMENT:

- Keep trash containers closed or covered.
- Cover piles of scrap metal and other waste materials.
- Store waste and stockpiled materials on pallets.
- Never put oil or hazardous materials in the trash.





WASH RACKS:

- Wash vehicles **ONLY** in authorized areas:
 - **Central Vehicle Wash Facility, SB (Lyman Road)**
 - 8th TSC Wash Rack, SB 1603
 - 25th ID Wash Rack, SB 3030
 - All WAAF wash racks
 - Ft. Shafter Consolidated Wash Rack
 - East Range and Kahuku Rinse Racks after using ranges.
- **Use only approved detergents. (*List of approved and non-approved detergents posted on DPW ENV website*). NO SIMPLE GREEN!**
- Try to minimize overspray. Keep water within the boundaries of the wash rack.



STORM DRAINS:

- Keep drains clean and free of sediment and debris.
- Mark drains that flow to the ocean to help prevent accidental dumping.
- **ONLY RAIN DOWN THE DRAIN!**



FUEL STORAGE & OPERATIONS:

- Storing fuel (>300 gal) and conducting fuel operations is *prohibited* without prior authorization from the Environmental Division.
- Sample authorization request documents available on the ENV website.
- When storing fuel, fuel trucks must be parked within **secondary containment**.
- Rainwater that collects in containment must be inspected for POL residue. All POL residue must be removed before discharging water.
- Ensure a spill kit is available near or on fuel trucks in areas where spills are likely to occur, especially when fueling or defueling.
- Place drip pans under connections to collect leaks and drips.





SECONDARY CONTAINMENT:

Prevent Spills BEFORE they occur:

Store all Hazardous Materials with secondary containment and indoors or with overhead protection.



MINIMIZE THE RISK OF HARMFUL POLLUTANTS TO THE ENVIRONMENT

“Preventing spills saves money by avoiding costly cleanups, treatment and disposal of waste, and it helps the environment by preserving the quality of our land and water”.



SPILL PREVENTION & RESPONSE



Improper Hazardous Material Storage



Improper Use of Secondary Containment



NEVER drain anything (filters, cans, parts)
into containment pallets.



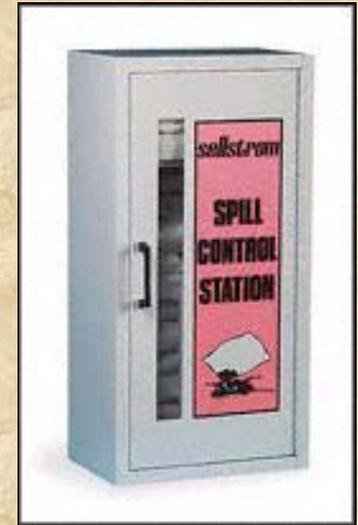
SPILL PREVENTION & RESPONSE



Spill kits should be located:

- Near or on fuel trucks
- When fueling or defueling
- In areas where spills are likely to occur
- Near HM storage locations

These kits must be properly marked, accessible and contain the appropriate response materials for the HM/HW being stored.





Policy Memorandum USAG-HI-73, Spill Kit Requirements

- POL spill response equipment must be kept onboard tactical vehicles. (1 kit per 3 vehicles)
- Spill response equipment must be adequate to respond to small POL spills. At a minimum:
 - 2 drip pans
 - 30-40 lbs. absorbent material
 - 25 oil-only absorbent pads
 - 3 oil-only absorbent pillows
 - 6 oil-only absorbent socks/booms
 - 25 durable plastic bags
 - 1 broom with non-sparking dustpan
 - 3 straight edge non-sparking shovels
 - 3 spade shovels
 - 1 plugging compound kit
 - 2 chemical resistant goggles



DEPARTMENT OF THE ARMY
US ARMY INSTALLATION MANAGEMENT COMMAND, PACIFIC REGION
HEADQUARTERS, UNITED STATES ARMY GARRISON HAWAII
THE WRIGHT AVENUE, HONOLULU, HI 96819-5000
FONTSFIELD BARRACKS, HAWAII BEER-800

IMHW-ZA

13 Aug 15

MEMORANDUM FOR All Military Units, Tenants, Other Military Services, Soldiers, Civilians and Contractors Traveling or Conducting Activities Within United States Army Garrison, Hawaii (USAG-HI) Installations.

SUBJECT: Policy Memorandum USAG-HI-73, Spill Kit Requirements.

1. References.

- a. 40 Code of Federal Regulations, Part 112 - Oil Pollution Prevention.
- b. USAG-HI Spill Prevention Control and Countermeasures Plan (SPCCP), 09 Oct 09.
- c. Army Regulation (AR) 200-1, Environmental Protection and Enhancement, 13 Dec 07.
- d. AR 350-10, The Army Sustainable Range Program, 30 Aug 05.

2. Applicability. This policy applies to all military units, tenants, other military services, Soldiers, Civilians and contractors traveling or conducting activities on all USAG-HI Installations, including but not limited to: Oahu range roads and training areas. This policy also applies to Army units operating tactical vehicles and convoys on Oahu public roads.

3. Background. State and federal laws prohibit the uncontrolled discharge of Petroleum Oil and Lubricant (POL) or other hazardous substances to groundwater, surface water or soil. Immediate actions must be taken to control, contain, and recover accidental spills. The most common cause of incidental spills on USAG-HI installations roads and training ranges are due to tactical vehicles and equipment leaks, drips, ruptured hoses or pipes and vehicular accidents.

4. Policy.

- a. All users of Army installations, ranges roads and training land on the island of Oahu, Hawaii are required to follow environmental protection measures and plan for contingencies in the event of equipment failure to ensure incidental spills of POL and other hazardous substances are promptly contained in order to minimize environmental impacts.



Policy Memorandum USAG-HI-73, Spill Kit Requirements

- Drums must be available at the unit motorpool or maintenance facility for storage and disposal of spent materials.
- All leaks and spills must be controlled and cleaned up immediately.
- Cleaning up spills is the responsibility of the unit that caused the spill.
- All spills must be reported to the DPW Environmental Division within 15 minutes of initial discovery at 656-1111.
- A written Spill Notification Form must be submitted to the DPW Environmental Division no later than 8 hours after notification.



IMHW-ZA

13 Aug 15

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US ARMY INSTALLATION MANAGEMENT COMMAND, PACIFIC REGION
HEADQUARTERS, UNITED STATES ARMY GARRISON, HAWAII
THE WRIGHT AVENUE, HONOLULU, HI 96819-5000
FOOTFIELD BARRACKS, WAIKANE BARRACKS

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Initial Response Actions:

- Is the scene safe? If you cannot safely respond to a spill, **CALL 9-1-1!**

- If the scene is safe, put on the proper personal protective equipment (PPE) and initiate cleanup actions immediately upon

Discovery:

1. Stop the spill
2. Protect the drains
3. Clean the spill. **ALL SPILLS MUST BE CLEANED UP WITHIN 72-HOURS**
4. **Report ALL spills to the DPW Environmental Division 656-1111.**



- For small, manageable spills, clean up IAW unit/activity spill plan.
- Use absorbent material/rags to absorb the remaining material.
- Make the proper waste determination for disposal of spill residue.



SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT
U.S. Army-Hawaii



**SPILL
PREVENTION &
RESPONSE**



The DPW Environmental Division Emergency Spill Notification Line

656-1111



REPORT ALL SPILLS!



OSHA 1910.1200:

Hazard Communication (HAZCOM) Standard:

Requires an employer to:

1. Have a **written hazard communication program**.
2. Have each hazardous chemical in the workplace appropriately **labeled**.
3. Have a **Safety Data Sheet** (SDS) for each hazardous chemical in the workplace.
4. **Train** his/her employees about the hazards associated with and precautionary measures required for each hazardous chemical in the workplace. Training is required initially and anytime a new hazardous chemical is introduced into the workplace.



Label Elements

CHEMICAL X

DANGER

HAZARD STATEMENTS:

Fatal if swallowed.
Causes severe skin burns and eye damage.



PRECAUTIONARY STATEMENTS:

- Wear protective gloves.
- Wear face protection.
- Do not eat drink or smoke when using this product.
- Wash hands thoroughly after use.
- Store in a sealed container.
- **IF ON SKIN:** Rinse immediately with with cool water.
- **IF IN EYES:** Rinse thoroughly with water and seek medical attention.
- **IF SWALLOWED:** Do not induce vomiting. Seek medical attention.

Dispose of contents/container in accordance with local regulations.

Chemical X Manufacturing, 1234 Over There St., (123) 456-7890

See the S.D.S for more information.

Product identifier

Pictograms

Signal words & precautionary statements

Supplier identification

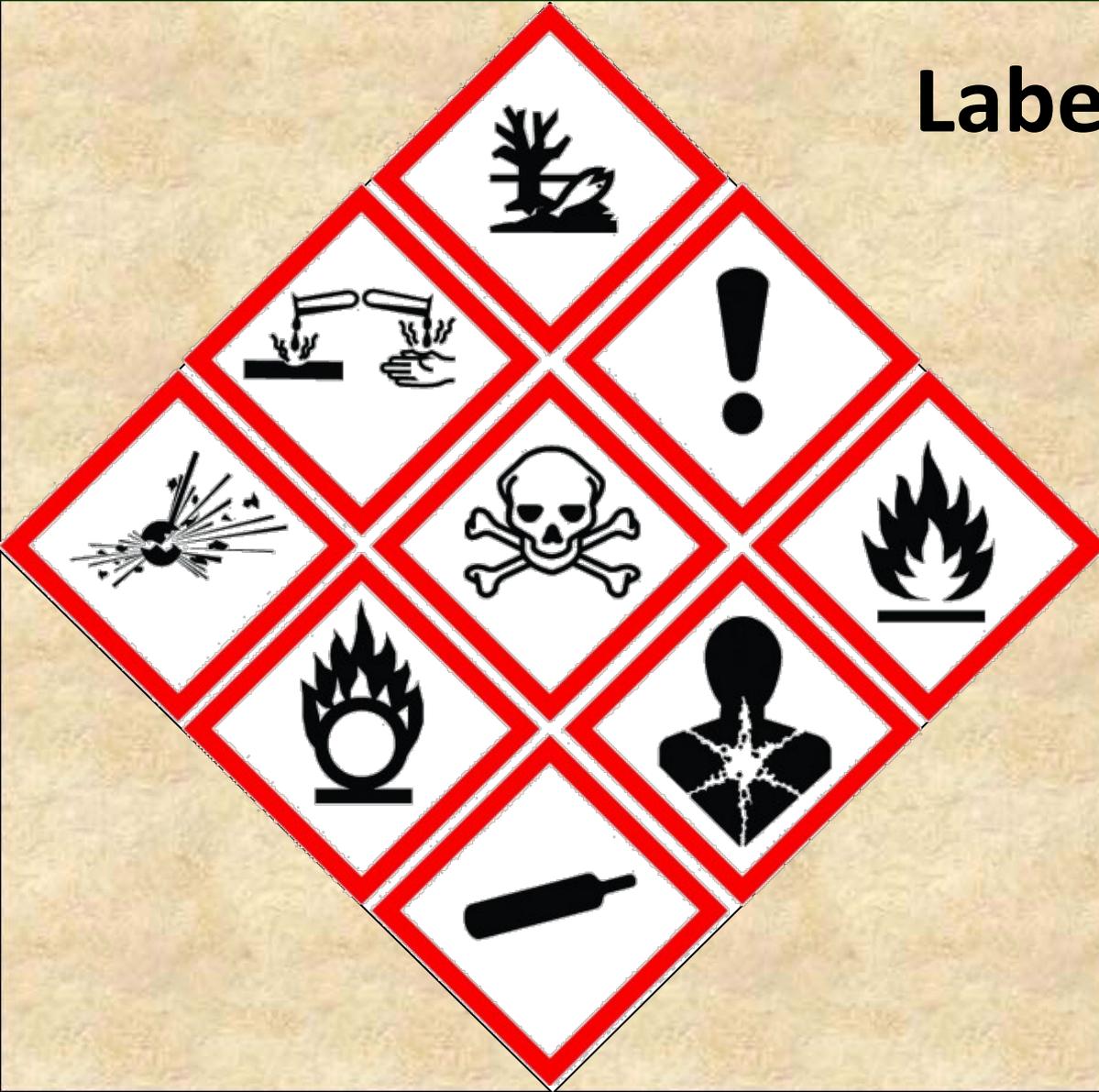
Supplemental information



Label Elements

Pictograms

Pictograms are required in the revised Haz Comm standard. These nine pictograms are standardized.





Safety Data Sheets (SDS)



29 CFR 1910.1200 The employer shall maintain in the workplace copies of the required SDS for each hazardous chemical and shall ensure they are *readily accessible* during each work shift to employees when they are in the work area.



Safety Data Sheets (SDS)

16 required headings (standard format):

1. Identification
2. Hazard(s) identification
3. Composition/ information on ingredients
4. First-aid measures
5. Fire-fighting measures
6. Accidental release measures
7. Handling and storage
8. Exposure control/personal protection
9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information
12. Ecological information
13. Disposal considerations
14. Transport information
15. Regulatory information
16. Other information



HAZARDOUS MATERIAL MANAGEMENT



Proper Storage:

Flammable materials must be stored in approved flammable cabinets. Oxidizers and Corrosive materials should be stored separately.



ID	NAME	QUANTITY	LOCATION
0000000001	ACETONE	1000	...
0000000002

AUL: 30-day supply of authorized Haz Mat.



Safety Data Sheets (SDSs): must be available for ALL HM.



Label: All Haz Mat must be properly labeled for identification

Spill Kits: must be available where Haz Mat spills may occur.



Secondary Containment: All Haz Mat must have secondary containment.





Policy Memorandum USAG-HI-19, Authorized Use List (AUL):

- The AUL is a 30-day supply of authorized HM a unit/activity can store and use at their facility and must be approved by DPW.
- All HM must be listed on the unit AUL. Non-compliance will result in a failure on the unit's quarterly inspection.
- All HM on the AUL must be obtained and bar-coded through the Hazardous Material Control Point (HMCP).
- If HM is not available from the HMCP and must be purchased through an outside source, it must be approved before purchase and then brought to the HMCP to be bar-coded.
- Call 656-2277 to modify Unit AUL.



**NEVER USE UNAUTHORIZED
HAZARDOUS MATERIALS!**



DO NOT bring in Hazardous Materials from home or local stores/vendors unless authorized by the HMCP.



All EMPTY hazardous materials containers must be turned back in to the ECO so they can be turned-in to the HMCP.

Special Instructions for Empty Oil Containers:

1. Cut top off
2. Drain or rinse container in solvent tank



All EMPTY Haz Mat containers must be given to the ECO to be turned-in to the HMCP.

**If the Haz Mat container is not empty: USE IT!
If it can no longer be used, turn it in to the ECO
ASAP!**





Excess, Expired, or Unusable Materials



All *suspected* **EXCESS, EXPIRED** or **UNUSABLE** hazardous materials must be turned-in to the ECO immediately.

The ECO must evaluate the material to see if it is still usable or if it is a waste.

UNITS WILL BE CHARGED FOR THE DISPOSAL OF MISMANAGED/EXCESS/EXPIRED HAZ MAT.



HAZARDOUS MATERIAL MANAGEMENT



Unauthorized containers: Only use authorized containers for HM storage

Improper marking/labeling: We MUST label ALL containers to be able to identify the contents!

LABEL ALL CONTAINERS!

Failure to properly manage HW could cost the installation fines of up to **\$37,500 per day!**



Proper Hazardous Materials Storage

- HM properly stored in approved cabinet
- HM limited to AUL 30-day supply
- All containers properly labeled
- All HM from HMCC, not from outside sources





• A material becomes a **WASTE** when it can no longer be used for its intended purpose, or it is thrown away.

• Once a material has been identified as a waste, the ECO must determine if it is a:

• **HAZARDOUS WASTE**

• **NON-REGULATED WASTE**

• **RECYCLABLE MATERIAL**

• **UNIVERSAL WASTE**

• Contact the **ECO** and/or the **DPW Environmental Division** for assistance in making a waste determination if you are not sure where it goes!





WASTE	TYPE	MARKING/LABEL	DISPOSAL PROCEDURE
<p>USED RAGS w/POL (Motorpool maintenance only. NO AVIATION RAGS)</p>	NON-REGULATED WASTE	 "USED RAGS w/POL"	 <p>Place non-saturated rags, absorbent pads/booms with POL in clear plastic bags and place into closed metal drum in the RMSSP. Call 656-3097 to schedule pickup.</p>
<p>USED DRY SWEEP w/POL</p>	NON-REGULATED WASTE	 "USED DRY SWEEP w/POL"	 <p>Place into closed metal drum in the RMSSP. Call 656-3097 to schedule pickup.</p>
<p>USED OIL</p>	USED OIL		 <p>ALL containers of used oil must be marked "USED OIL". Used Oil includes engine oil, gear oil, transmission fluid brake fluid, hydraulic fluid. Place into metal drum in the RMSSP. Call 656-0386/864-0930 for disposal.</p>
<p>USED BATTERIES</p>	UNIVERSAL WASTE	 "(DATE)"	 <p>For large batteries, mark each battery "USED BATTERY" and the DATE the battery was collected as waste. For small batteries, tape the terminals and collect in a sturdy box marked "USED BATTERIES" and the DATE. Turn-in vehicle batteries to the SSA or HMCP. Call 656-3097 for disposal of all other batteries within 6-mths.</p>
<p>AVIATION MAINTENANCE RAGS and DEBRIS</p>	HAZARDOUS WASTE	 "AVIATION MAINTENANCE RAGS and DEBRIS"	 <p>Collect waste Aviation Maintenance Rags and Debris in clear plastic bags. The ECO must immediately place the bags in drums in the HWSSP. Keep drums closed. Call 656-3097 for disposal before reaching 55-gal.</p>



COMMON WASTE MANAGEMENT



WASTE	TYPE	MARKING/LABEL	DISPOSAL PROCEDURE
AEROSOL PAINT	AEROSOL PAINT	"USED AEROSOL PAINT"	 <p>Place into closed metal drum in the RMSSP. Call 656-3097 to schedule pickup.</p>
EXCESS WATER/OIL-BASED PAINT	PAINT	N/A	 <p>Excess paint may still be usable. Call 656-3097 to schedule pickup. Usable paint will be placed in the Free-Issue program.</p>
USED JP-8 USED ANTIFREEZE USED GREASE	RECYCLABLE MATERIAL	"USED JP-8" "USED ANTIFREEZE" "USED GREASE"	 <p>Place into separate metal drums in the RMSSP. Keep drums closed. Maintain Collection Logs for each drum. Call 656-0386 for disposal.</p>
USED FLUORESCENT LAMPS	UNIVERSAL WASTE	 "(DATE)"	 <p>Collect lamps in a sturdy, box marked "UNIVERSAL WASTE LAMPS" and the DATE. Maintain a Collection Log for each box. Call 656-3097 for disposal within 6-months.</p>
UNKNOWN WASTE	HAZARDOUS WASTE	 "UNKNOWN-PENDING ANALYSIS"	 <p>All unknown waste must be considered hazardous until it can be properly identified. Place in the HWSSP and call 656-3097 for immediate assistance.</p>



USED POL RAGS



- “USED POL RAGS” must be stored in closable metal containers
- Used POL Rags must be in **clear plastic bags**
- **Reuse** USED rags first before NEW rags
- **NO SATURATED/DRIPPING RAGS!**
- Call 656-3097 for disposal.



USED DRY SWEEP



“USED DRY SWEEP” must be stored in closable metal containers

Reuse USED Dry Sweep first before NEW Dry Sweep

Used Dry Sweep must be in a DRUM WITH A CLOSED/SECURED LID before it is picked up for disposal.



SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT

U.S. Army-Hawaii



WASTE MANAGEMENT



Q: What's wrong with this picture?

A: Everything!



14 Feb 2013



- ❖ **Over 650 Unused** MRE Heater Packs Recovered. *(Will be returned to manufacturer for reuse)*
- ❖ Assorted Live Ammunition (blanks/paint)
- ❖ Ammo dunnage
- ❖ Batteries
- ❖ Cardboard *(Damaged, no longer recyclable – Missing out on a lot of \$\$)*

24 Sep 2003



ECONOMICS

Potential Fine/Violation

- ❖ RCRA-C & D: \$37.5 K/Day
- ❖ Wasted MREs \$\$

- Refuse Container Truck Fire**
- ❖ Suspected Cause: Unused MRE heaters Improperly disposed



Flameless Ration Heaters (FRHs):

- **UNUSED** FRHs must be collected and turned-in to the Hazardous Material Control Point (HMCP) at East Range Bldg 6040.
- **UNUSED** FRHs must **NEVER** be disposed of in the dumpster.
- **UNUSED** FRHs must **NEVER** be activated for the sole purpose of disposal.
- **USED** FRHs that were used to heat up an MRE may be disposed of in the dumpster.



USED OIL MANAGEMENT



40 CFR 279.22

Containers must be clearly
marked/ labeled:

“USED OIL”



USED OIL MANAGEMENT



Failure to mark used oil containers **“USED OIL”** could result in a \$10,000 fine!





USED OIL MANAGEMENT



Containers must be marked properly!

What's wrong with this picture?



USED BATTERY MANAGEMENT



- EVERY vehicle battery that has been determined to be unserviceable must have the words “**USED BATTERY**” marked on it along with the “**DATE**” the battery was taken out of service.
- Keep the batteries on secondary containment (if non-AGM) Have ECO document the amount on a Universal Waste (UW) Collection Log and make sure the batteries are turned in to the **SSA** or **HMCP** within 6 months of the date marked.
- Cracked batteries must be turned in to the ECO to be packaged for turn-in.

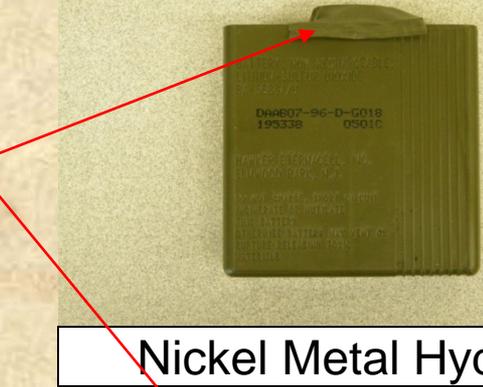


Collect Smaller Batteries in Boxes. Separate Different Types of Batteries



Lithium Ion

Tape terminals on smaller batteries and place in box marked/labeled:



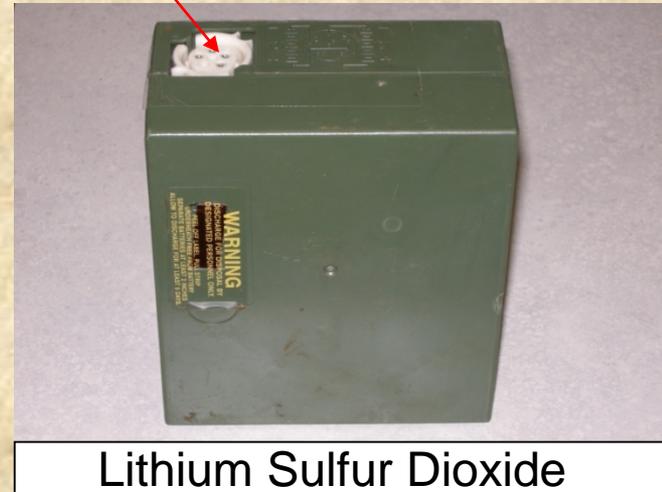
Nickel Metal Hydride



Nickel Cadmium



Don't forget to put the **DATE** on the box and have ECO enter the amount on UW Collection Log!



Lithium Sulfur Dioxide



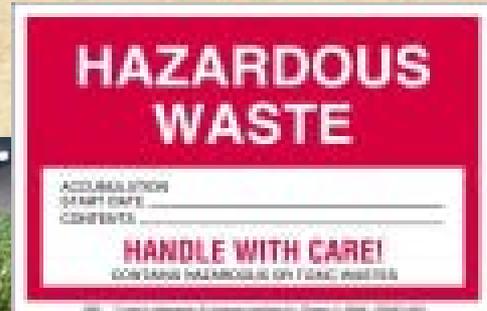
UNIVERSAL WASTE LAMPS (fluorescent light bulbs)

1. If possible, call DPW to change bulbs.
2. Put in box and close box.
3. Have ECO enter amount on UW Collection Log.
4. Mark/Label **Universal Waste Lamps**.
5. Put **the DATE** on box/label.
6. Call 656-3097 for pickup. Must be picked up within 6 months.





Hazardous Waste Shop Storage Point (HWSSP)



This is the only storage area authorized to store Hazardous Waste.
The ECO should be the only person to place HW in the HWSSP.



Improper Waste Management

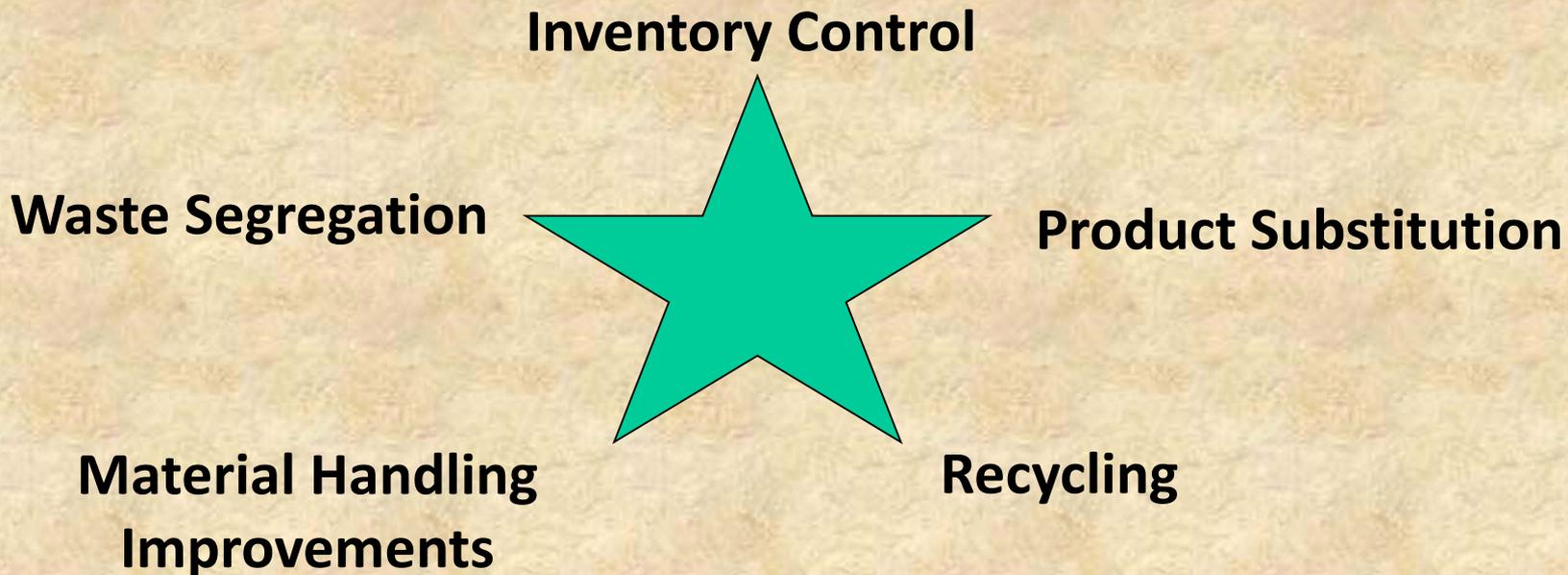
Waste must be properly labeled and stored.





Hazardous Waste Minimization

5 Ways to Make a Difference





Environmental Compliance



The Environmental Compliance Officer (ECO) is responsible for managing the unit/activity Environmental program.

- The ECO is **not responsible** for cleaning up after everyone!
- ALL PERSONELL** are responsible for properly managing, storing, using, recycling and disposing of the hazardous materials that they use.
- Leaders** (not the ECO) are responsible for holding personnel accountable for their environmental responsibilities.



The Unannounced Quarterly Compliance Inspection:

- Conducted by the DPW Environmental Division
- Simulated EPA/HI DOH Inspection
- Inspections can be down to the Company level
- Inspection reports are sent to the Brigade Commander
- Results are presented to the DCG (S) at the EQCC



Penalties for Noncompliance

- May 1994: USARHAW receives EPA Notice of Violation with a proposed penalty of **\$544,000** for improper hazardous waste management.
- December 2000: UH receives fine of **\$505,000** for improper HW management.
- April 2004: 25th ID receives NOV/fine of **\$60,625** for improper HW management.
- August 2004: Navy (HI) fined **\$81,600** for Hazardous Waste violations. One of the violations stemmed from the improper disposal of 2 ounces of paint thinner.
- April 2005: Yamada Painting Contracting was cited for **\$25,000** for failing to check for hazardous waste in their waste oil-based paints, solvents and used oil. The company also treated paints and solvents by air drying and adding absorbent material without a permit.
- October 2005: HI DOT receives NOV/fine of over **\$1,000,000 (million)** and must spend **\$50,000,000** to comply with Clean Water Act violations for a total of **~ \$52 million dollars!**
- September 2006: Beachside Roofing was cited **\$15,000** for keeping an inspector from conducting a hazardous waste compliance inspection.



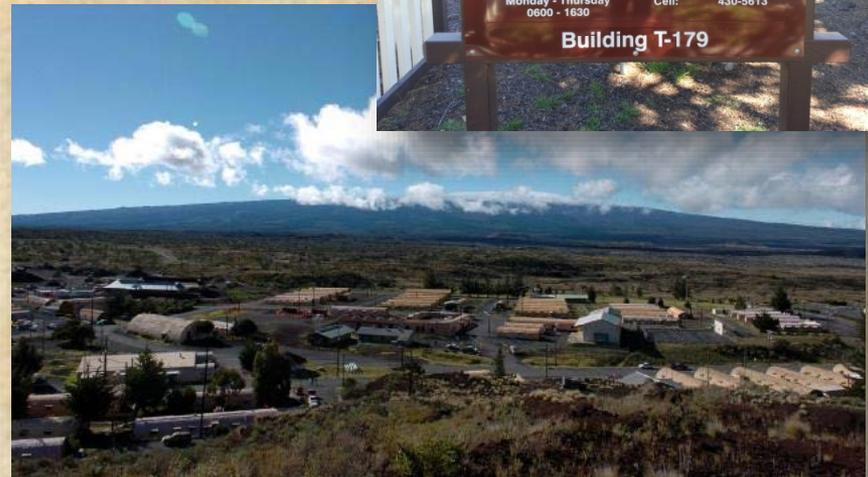
Penalties for Noncompliance

- March 2008: Kiyo's transmission in Kakaako fined **\$12,000** for not labeling containers "USED OIL".
- July 2008: Pearl Harbor Naval Shipyard fined **\$110,000** for improper HW storage.
- September 2008: Del Monte fined **\$190,000** for open HW violations:
 - Open, unlabeled containers of HW which included paint and fluorescent light bulbs.
 - Improper management of lead-acid batteries
 - Failure to keep HW training records for its staff
 - Improper storage and labeling of used oil containers
 - Failure to cleanup oil spills and comply with pollution-control requirements
- September 2008: 2 Honolulu men indicted on illegal storage, transportation and disposal of hazardous waste.
- July 2015: Matson Navigation fined **\$15.4 million** dollars for 233,000 gallon molasses spill into Honolulu Harbor in 2013 that killed over 25,000 fish and other marine life.



Pohakuloa Training Area

- **DO NOT TRANSPORT HAZARDOUS WASTE FROM POHAKULOA TRAINING AREA (PTA) BACK TO OAHU!!**
- All HAZARDOUS WASTE and USED OIL generated at PTA must be turned in to the Environmental Compliance Managers at PTA:
 - Bldg T-179
 - 808-969-2515





Hazardous Waste Program Manager

• **656-7001**

Hazardous Waste Pickup/Disposal

• **656-3097**

Authorized Use List

• **656-2277**

Used POL Pickup

• **656-0386/864-0930**

Environmental Inspections

• **656-0866**

Environmental Training Classes

• **656-0866**

Emergency Spill Line

• **656-1111**

Sustainable Environmental Management (SEM)

U.S. Army-Hawaii



April 2, 2010



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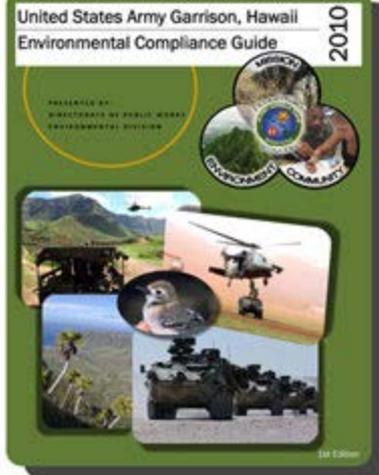
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Environmental Topics from A to Z

DISCLAIMER: It should be noted that some waste management or disposal procedures specified in this guide may not apply to certain installation tenants based on contractual relationships, support agreements and scopes of work. Please contact the Hazardous Waste Program Manager if you have questions about your unit's waste management procedures. USAG-HI.



understand the above

Click here for the
Environmental
Compliance Guide

<http://www.garrison.hawaii.army.mil/sites/sem/AtoZ.aspx>



SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT

U.S. Army-Hawaii

USARHAW ENVIRONMENTAL WEBSITE



<http://www.garrison.hawaii.army.mil/sustainability/Environmental.asp>

SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT
U.S. Army-Hawaii

April 25, 2011

ABOUT US | LOCATION | ENVIRONMENTAL PROGRAM AREA S

Aloha! Welcome to the Environmental Division

HO'OKAHI KAKOU
"we are one"

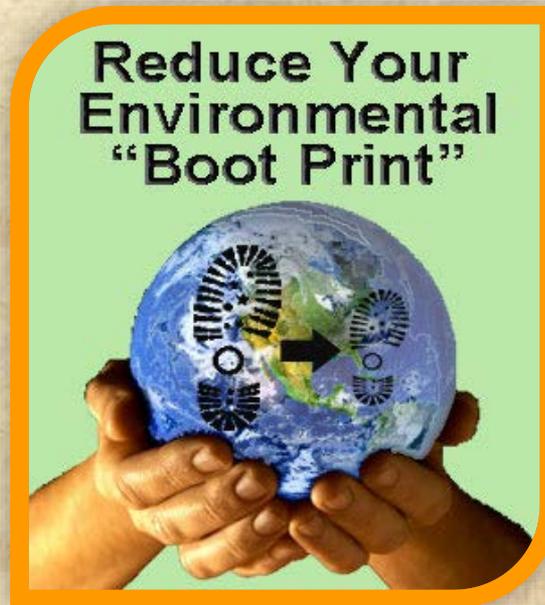
We are located at
Directorate of Public Works - Environmental Division
948 Santos Dumont Avenue
Wheeler Army Airfield, Bldg. 105
Schofield Barracks, HI 96857-5013

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- Program Documents (Plans, Procedures, Forms and Checklists)
- Policies, Regulations and EOs
- Fact Sheets, Trifolds, Newsletters



Sustaining the Environment For a Secure Future



REDUCE YOUR ENVIRONMENTAL BOOTPRINT

“Each person can make a difference because one small positive act multiplied thousands of times produces immense benefits.”