



Welcome to the

101st Airborne Division (Air Assault)



and Fort Campbell, Ky.

Environmental Satellite Accumulation Point Training



Hazardous Waste Program Team

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Discussion Items

Hazardous Waste

Satellite Accumulation Point

Universal Waste

Fluorescent Bulbs

Batteries

POL

Used Oil & Antifreeze

Why should it matter to me?

Our/Your

Water

Food

Land (play yard for)

Satellite Accumulation Point

What is the Resource Conservation and Recovery Act (RCRA)?

Defines what is a hazardous waste.

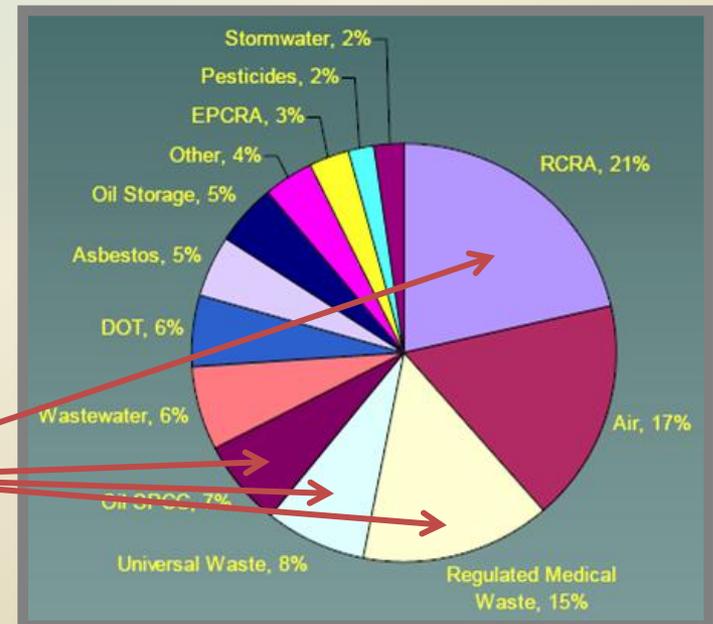
Provide rules on how to manage hazardous waste (from cradle-to-grave).

Specify what persons are covered by these regulations.

Fort Campbell is a prime target for regulators because of the large quantity of waste generated and the number of waste sites on the installation.

The most common RCRA violations found are open and mislabeled containers.

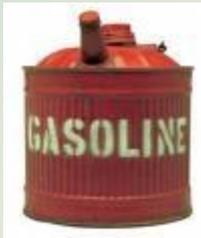
RCRA violations can be levied at \$37,500.00 per violation, per day.



What is Hazardous Waste?



- ❖ A HW is a solid waste (a solid, liquid, or gaseous substance) that no longer has a use for its intended purpose.
- ❖ EPA defines waste as hazardous if it has certain properties that could pose danger to human health and the environment after it is discarded.



Hazardous Waste Generator

- ➡ **The HW generator (contractors included) is the first link to the cradle-to-grave management of HW**
- ➡ **A hazardous waste generator is:**
 - ◆ **The facility (or person) that first creates the hazardous waste**
 - ◆ **The facility (or person) that first makes a waste subject to RCRA or state regulation**



Examples: Hazardous Waste Generated

Waste Process



CBRN

Waste Streams



SAP

M256, M258 Decon Kits
C2 Mask Canisters (black)
C2A1 Mask Canisters (green)
(NON-RCRA)



Paint Booth



SAPs

Waste paint thinner
Waste paint remover
Waste rags and paper
Waste paint arresting filters
Waste water borne CARC
(NON-RCRA)

Examples: Hazardous Waste Generated

Waste Process



Blade Shop

Waste Streams



SAPs

**SAP #1 Hazardous Waste
Paint Solvent with
Chromate**

**SAP #2 Hazardous Waste
Chrome Pickle Solution**



Engine Shop



SAPs

**SAP #1 Hazardous Waste
Solvent and Cleaner
with Lead and Cadmium**

**SAP #2 Hazardous Waste
Blasting Media with Lead
and Cadmium.**

Fort Campbell Generating Activities



- **Hazardous Waste** - Generated at over 200 locations. Almost half of the “Satellite Accumulation Points” are operated by GS or contract personnel.



- **Universal Waste** - Generated at many military, GS and contractor operated locations. Collected through centralized universal waste handling facilities.



- **Used Batteries** - Generated at many military, GS and contractor operated locations. Collected through various facilities, depending upon the type of battery.



- **Used Oil and Used Antifreeze** - Generated at over 200 locations. About half of the “POL Accumulation Points” are operated by GS or contract personnel.

Supervisor / Manager

Waste Management Training

Cradle-To-Grave Management

Generator: Anyone whose act or process produces hazardous waste. Waste generated by contractors working at a facility is considered by EPA to have been generated by that site. EPA holds all parties liable for proper management.

Environmental Laws: Generators are responsible for knowing the requirements that apply to their waste. AR 200-1 assigns responsibilities for the Army Environmental Program and CAM REG 200-1 establishes FTCKY Installation Environmental and Recycling Policies.

Hazardous Waste Program Manager: Assists in making hazardous waste determinations. Generators should assume hazmat and chemical wastes are hazardous until waste determination is made. This includes low concentration wastes or chemicals where you are unsure of the properties.

Waste determination is made using **generator knowledge** (MSDS) of the waste process, or by **chemical analysis**.

Environmental Quality Officer

Key Personnel Responsibilities

Commanders/Managers – Assign key personnel. Enforce compliance.

EQO – Oversee environmental operations. Train and assist personnel. Enforce compliance.

Hazmat Custodian – Maintain hazmat lockers and MSDS. Enforce container management and disposition procedures.

SAP Operator – Operate, maintain and conduct weekly inspection of Satellite Accumulation Point(s). Enforce compliance. Work with EQO to sustain compliance.

POL Site Operator – Operate, maintain and conduct weekly inspection of POL Accumulation Point(s). Enforce compliance. Work with EQO to sustain compliance.

Environmental Quality Officer

**What does an EQO need to know about
HW, UW and POL Accumulation?**

Resource Conservation & Recovery Act

Environmental Protocols and Best Management Practices

Hazardous Waste Management

Universal Waste Management

Used Battery Management

POL Management

Compliance Documentation

Environmental Quality Officer

Environmental Division Responsibilities

Develop and implement SAP management program, to help ensure compliance with federal, state and Fort Campbell requirements.

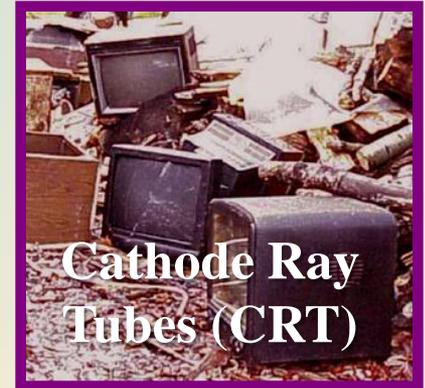
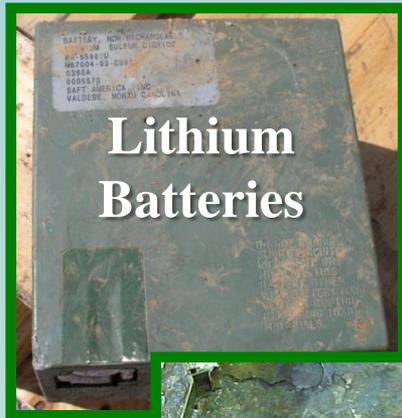
Develop and disseminate environmental protocols for proper management of solid waste, recyclables, hazardous and universal waste.

Provide training, guidance, and assistance to SAP Operators EQO's, and commanders/managers to help ensure compliance with federal, state and Fort Campbell requirements.

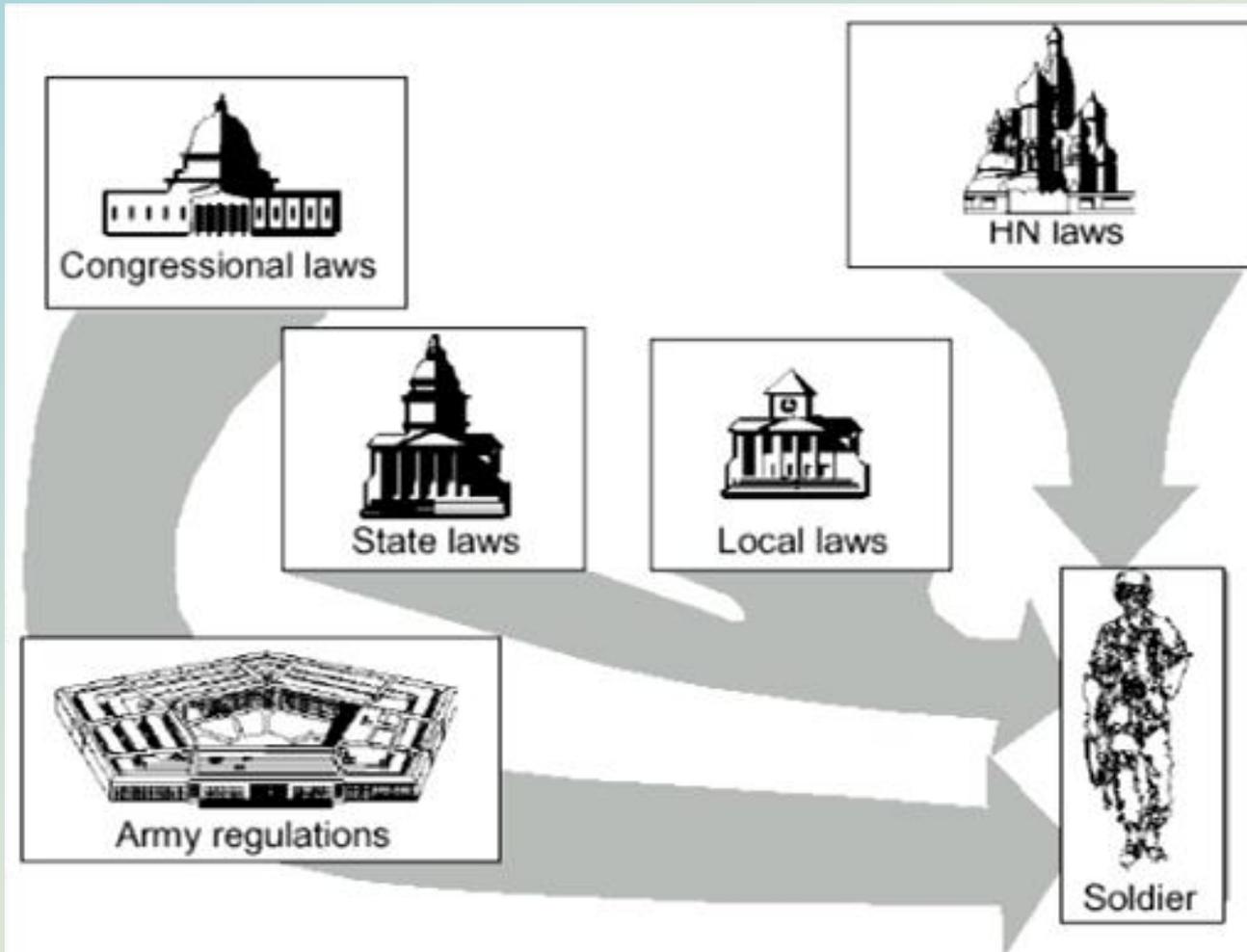
Conduct monthly compliance assistance inspections (Unannounced). Coordinate with EQO, SAP and POL site operators, and commanders/managers to resolve deficiencies and sustain environmental compliance.

Environmental Quality Officer

Waste Management Training Hazardous Waste Compliance Issues



Satellite Accumulation Point Operations



Many Rules

Many Procedures

2012 Sixth Edition

Fort Campbell, KY



Understanding and Complying with Fort Campbell
Environmental Laws

RECYCLE AT FORT CAMPBELL	Aluminum / Tin Cans	Artifreeze	Appliances (Non-Government)	Batteries (Lead-Acid, Government)	Batteries (Non-Lead-Acid, Government)	Batteries (Lead-Acid) POV	Cardboard	Cooking Oil	Concealable Knife	E-Waste	Fuel	Fuel Train	Glass	Hazardous Materials (Government)	Household Hazardous Waste	Government / Military Property	MRE Heaters (Unused)	Pallets (Broken)	Pallets (Useable, wood & plastic)	Paper	Weapons Cleaner / Parts Washer Solvent	Plastic (#1 & #2)	POL (Government / Military)	POV Fluids	POV Tires (No Rims)	Printer Cartridges	Spill Response Materials	Steel (Non-Government / Military)	Tires (Government / Military)	Wood / Yard Waste (Leaves)
Convenience Center (Airborne St & A Shau Valley Rd) 798-5695	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PPOC (2nd Street & Wickham Ave) 798-1157/9790		✓			✓							✓		✓							✓	✓				✓				
DLA Disposition Services-Campbell (8th St & Oregon Ave) 798-3295				✓						✓						✓		✓											✓	

Edition 6

Updated
Periodically

Always Check
The Most
Recent
Edition



Environmental Handbook

Fort Campbell's Definitive Environmental Resource



Satellite Accumulation Point Operations

Facilities may accumulate as much as 55 gallons of HW (or one quart of acutely HW) in containers at or near the point of generation where wastes initially accumulate. This area is commonly referred to as a Satellite Accumulation Point (SAP).

The SAP must be under the control by the operator of the process generating the waste. “Under control” means that the person generating the waste controls what waste is put in the container ensuring no cross-contamination with other wastes.

Each container in a SAP must be kept closed except when adding or removing contents. The containers must be in good condition and labeled.

**Non-RCRA
Green Filters**

GAS MASK
FILTERS
NON-HAZARDOUS
(Green)

**Hazardous Waste
Black Filters**

**Hazardous Waste
M256 / M258 Kits**



Satellite Accumulation Point Operations

Labeling and Marking

Hazardous Waste Label

HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

GENERATOR INFORMATION:
NAME HQ, 101 AIRBORNE (AIR ASSAULT) DIV
ADDRESS BLDG. 5212 OREGON AVE. PHONE 502-798-4740
CITY FT. CAMPBELL STATE KY ZIP 42223
EPA ID NO. / MANIFEST DOCUMENT NO. TN5210020140
ACCUMULATION START DATE _____ EPA WASTE NO. D001
Paint thinner
D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX
HANDLE WITH CARE!
STYLE WMSP
Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808

*Fill date when full
on a piece of tape*

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“Hazardous Waste”
and
Contents

LABELING

MARKING



Satellite Accumulation Point and Universal Waste Procedures for Easy Compliance

For waste turn-in, call: 270-798-9790

Technical assistance, call: 270-798-9763/9762/9786

Hazardous Waste SAP Unit/Activity _____ Bldg _____
EQO _____ Phone _____

- 1] Accumulation: no more than 55 gallons of HW or 1 quart of acute toxic waste.
- 2] Containers: keep clean, serviceable, and closed except when adding waste.
- 3] Label(s): ensure contents are identified - and no accumulation date(s).
- 4] Fill date: mark or label lid when the container becomes full. (D/M/Y)
- 5] Call for pick-up: the PPOC will prepare DD Form 1348-1A and document turn-in.
- 6] 6-Part Folder: maintain as directed in the Environmental Handbook.

Universal Waste Lamps

- 1] Accumulation: no more than six (6) months at the unit/activity.
- 2] Containers: keep clean, serviceable, and closed except when adding spent lamps.
- 3] Label(s): container labeled UNIVERSAL WASTE LAMPS and dated the day the FIRST spent lamp is deposited in the container.
- 4] Turn-In: turn in at the centralized location listed in the Environmental Handbook.
- 5] 6-Part Folder: centralized locations receiving universal waste lamps must maintain a SAP established and operated IAW the Environmental Handbook.

Black Mask Filters
M256/M258 Kits

Fill Date on Lid
(D/M/Y)

Label Container
"Hazardous
Waste"

(and contents)

Universal Waste
Lamps

(date D/M/Y
when
first lamp
is placed
in container)

Environmental Compliance Made Easy

Environmental Protocol Sheets

EPS simplifies the environmental management process by providing specific handling procedures for recyclables and waste commonly generated.

Using the Table of Contents, locate the waste or issue you are looking for in Appendix A, and follow the step-by-step instructions.

POC information is provided in each EPS so you can obtain additional assistance if needed.

**Need an EPS that is not listed in the
Environmental Handbook?**

Contact the Environmental Division for Assistance.

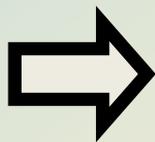
Satellite Accumulation Point Operations

Cradle To Grave Management

Satellite Accumulation Points: SAP's are remote locations where waste is being generated at or near the point of generation and under the control to the operator. SAP's are **volume driven** and not regulated by time during storage of the hazardous waste that is being accumulated.

90-Day Satellite Accumulation Point: Storage area is **time driven** and not regulated by the volume of hazardous waste stored. Hazardous waste that is being accumulated must be disposed of within 90 days. The Environmental Division's PPOC is the only authorized 90-day site on Fort Campbell.

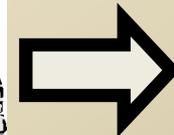
**Fort
Campbell**



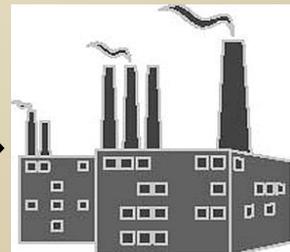
**Hazardous Waste
90-Day Yard**



Transporter



TSDF





DARD Process

➤ The DARD provides disposition instructions for all obsolete/unserviceable CBRN Individual Protective Equipment (IPE).

➤ Disposal instructions and training gear procurement may be obtained by emailing: smblogcomjeap@usmc.mil

➤ IAW Defense Message 132345Z Jul 07 CBRN-D IPE Disposal Process

➤ DARD processes CBRN IPE into three categories:

➤ Serviceable: Serviceable excess items must be turned into the item manager for cross-leveling and redistribution to the warfighter. They are not approved for disposal.

➤ Suitable For Training Only: Items that are categorized as training gear are marked in white paint as “Training Only” in a visible location on that piece of equipment and are made available to units for a nominal fee.

➤ Unserviceable: Disposition instructions will be provided to customers with approved disposable CBRN IPE detailing shipment procedures.

HAZARDOUS WASTE DETERMINATION

Is it Regulated?

Most solid waste that is generated is not hazardous.

Four questions that must be answered:

Is the Substance a Solid Waste?

Is it Excluded by Regulation?

Is it Exempted by Regulation?

Is it a Hazardous Waste?

HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is the Substance a Solid Waste?

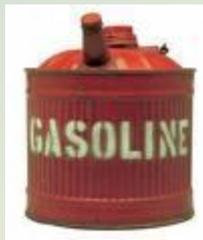
Solid Waste:

Any garbage, refuse, sludge... and other discarded material, including solid, liquid, semisolid, or contained gaseous material which is abandoned, recycled, and inherently waste-like.

Hazardous Waste:

Must be a solid waste, listed in 40 CFR Part 261, Subpart D.

Solid wastes, by definition, are not strictly solid. Solid wastes include liquids and containerized gases.



HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is the Substance a Solid Waste?

EXCLUDED

Recycled by being used, reused, or returned to the original process without first being reclaimed (such as “off-spec” jet fuel)

Domestic Sewage

Industrial wastewater discharges

Radioactive waste

EXEMPTED

Household waste (pesticides, cleaners)

Used oil filters (hot drained)

Certain recyclable substances (such as scrap metal)

Used chlorofluorocarbon refrigerants being reclaimed for further use.

Samples collected for testing to determine characteristics

HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is the Substance a Solid Waste?

**If the Substance is a Solid Waste,
use these methods to determine if the waste is hazardous.**

Listed Hazardous Wastes – list of specific wastes the EPA considers hazardous.

Characteristic Hazardous Wastes – defined hazardous waste characteristics (ignitable, corrosive, reactive, or toxic)

HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is it a Listed Hazardous Waste?

F - List wastes: Wastes from common industrial processes not specific to one type of industry. This list includes certain spent (used) solvents, degreasing and surface preparation; plating wastes, and metal treating wastes.

Example: F003 – Mixture of Used Oil and Spent Acetone

K - List wastes: Wastes from specific industrial processes, such as wood preservation, pesticide manufacturing, petroleum refining, cooking industries, and explosives manufacturing.

Army facilities do not typically generate K-list wastes.

HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is it a Listed Hazardous Waste?

P - and U - List wastes: Certain unused commercial chemical products that are hazardous when disposed. May become wastes in a number of ways - some can be spilled while in use while others can be intentionally discarded if out of specification.

P - List wastes: Acute hazardous wastes, so toxic and/or reactive that the accumulation limit is 1 quart. Even the empty container is considered hazardous waste unless triple rinsed before disposal.

HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is it a Characteristic Hazardous Waste?

Hazardous Waste: Must be a solid waste, listed in 40 CFR Part 261, Subpart D. Must be a listed waste or exhibit at least one characteristic in 40 CFR Part 261, Subpart C, “Characteristics of a Hazardous Waste”.

Hazardous Waste Characteristics

Ignitable



< 140°F

Flammable liquids
Oxidizers
Organic peroxides
Ignitable compressed
gases

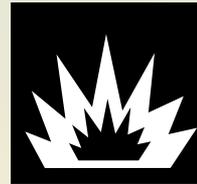
Corrosive



pH ≤ 2 ≥ 12.5

Inorganic acids
Organic acids
Bases

Reactive



Unstable / undergo violent
change

Sulfides and cyanides
Peroxide formers
Alkali metals
Dinitro – and trinitro –
compounds

Toxic



Acute oral, dermal, or
inhalation LC/LD

8 Heavy metals
10 Pesticides
22 Organic chemicals

HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is It A Characteristic Hazardous Waste?

EPA Ignitable

A liquid that has a flash point less than 140 ° F;

A non-liquid capable, under normal ambient conditions, of causing fire through friction, absorption of moisture, or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard;

A compressed gas defined as ignitable by DOT regulation (49 CFR § 173.300); or

An oxidizer as defined by DOT regulation (49 CFR § 173.151).



Identified by EPA hazardous waste number **D001**
[40 CFR § 261.21]



HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is it a Characteristic Hazardous Waste?

Hazardous Waste: Must be a solid waste, listed in 40 CFR Part 261, Subpart D. Must be a listed waste or exhibit at least one characteristic in 40 CFR Part 261, Subpart C, “Characteristics of a Hazardous Waste”.

Hazardous Waste Characteristics

Ignitable



< 140°F

- Flammable liquids
- Oxidizers
- Organic peroxides
- Ignitable compressed gases



HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is It A Characteristic Hazardous Waste?



EPA Corrosive



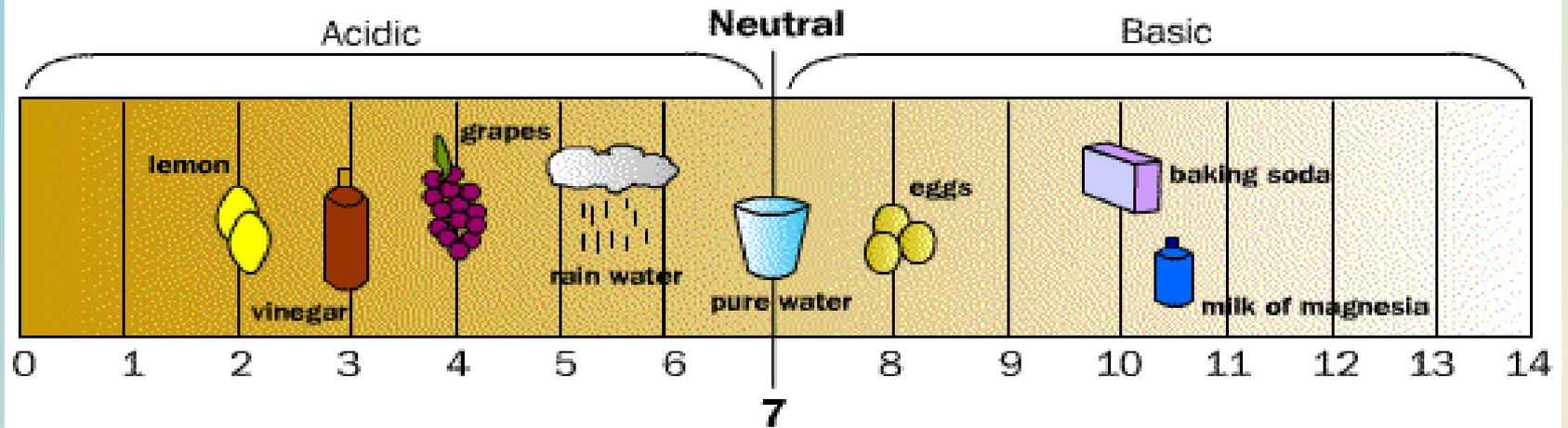
Aqueous solutions having a pH less than or equal to 2 (strong acid) or greater than or equal to 12.5 (strong base); or

A liquid which corrodes steel faster than 0.25 inch per year at 130 ° F.

Corrosive wastes are identified by the
EPA hazardous waste number **D002**

[40 CFR § 261.22]

pH Scale



(c) 2001, Team C0111040, ThinkQuest

Hazardous Waste Characteristics

Ignitable



< 140°F

- Flammable liquids
- Oxidizers
- Organic peroxides
- Ignitable compressed gases

Corrosive



pH ≤ 2 ≥ 12.5

- Inorganic acids
- Organic acids
- Bases



MSDS
shows
Ph = 1.0

HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is It A Characteristic Hazardous Waste?

EPA Reactive

It reacts violently with water;



It forms potentially explosive mixtures with water;



When mixed with water, generate toxic gases, vapors or fumes in a quantity sufficient to harm humans or the environment;

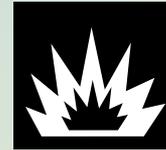
It is normally unstable and readily undergo violent changes without detonating;

It contains cyanide or sulfide which, when exposed to conditions of pH between 2 and 12.5, generates toxic gases, vapors, or fumes in a quantity sufficient to harm humans or the environment;

HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is It A Characteristic Hazardous Waste?

EPA Reactive



It is capable of detonation or an explosive reaction if subjected to a strong initiating source or if heated under confinement;

It is capable of detonation or explosive decomposition or reaction at normal ambient conditions; or

Classified as a DOT forbidden explosive, a Class A explosive (1.1 or 1.2 explosives), or Class B explosive (1.2 or 1.3 explosives).



Reactive wastes are identified by the EPA hazardous waste number **D003**
[40 CFR § 261.23]



HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is it a Characteristic Hazardous Waste?

Hazardous Waste: Must be a solid waste, listed in 40 CFR Part 261, Subpart D. Must be a listed waste or exhibit at least one characteristic in 40 CFR Part 261, Subpart C, “Characteristics of a Hazardous Waste”.

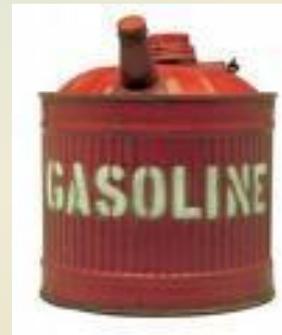
Hazardous Waste Characteristics



Chromium



Poisons in Pesticides



Lead
Benzene

Toxic



Acute oral, dermal, or
inhalation LC/LD

- 8 Heavy metals
- 10 Pesticides
- 22 Organic chemicals

HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is It A Characteristic Hazardous Waste?

EPA Toxic



Wastes exhibit the characteristic of toxicity if, after using EPA's Toxicity Characteristic Leaching Procedure (TCLP), the extract from a representative sample of the waste exceeds the regulatory level of any of the contaminants listed in Table 1, 40 CFR 261.24.

Maximum Concentration of Contaminants for the Toxicity Characteristic

EPA HW Number	Contaminant	Regulatory Level (mg/L)
D018	Benzene	0.5
D007	Chromium	5.0
D008	Lead	5.0

HAZARDOUS WASTE DETERMINATION

Is it Regulated? Is It A Characteristic Hazardous Waste?

Characteristic Hazardous Waste Examples

Acetic Acid	D001, D002 (ignitable, corrosive)
Waste Hydraulic Absorbent	D006 (cadmium)
Corrosion Remover Compound	D002 (phosphoric acid)
Waste Mogas	D001, D018 (ignitable, benzene)
Waste Insecticide	D001, D013 (ignitable, lindane)
Waste Parts Washer Solvent	D006, D008, D010 (cad, lead, sel)
Waste M256A1 Detector Kit	D001, D009 (ignitable, mercury)
NVG Image Intensifier Tubes	D006, D008 (cadmium, lead)

HAZARDOUS WASTE DETERMINATION

Is it OK to mix a non-hazardous waste with a hazardous waste in order to dilute it and make the mixture non-hazardous (without a permit)?

No !

In general, mixing a non-hazardous solid waste with a listed hazardous waste makes the entire mixture a hazardous waste.

Mixing hazardous waste with non-hazardous waste to render it non-hazardous is a treatment method requiring a EPA permit.

Satellite Accumulation Point Operations

Abandoned or Mismanaged Waste

Hazardous Waste Noncompliance



1. Is the material a useable product or waste?
2. If the material is a waste, is it a hazardous waste?
3. If the material is a hazardous waste, how should it be managed?
4. Is a SAP required?

Hazardous Waste Generation

**If a waste we generate is a hazardous waste,
what are the management options?**

1. Turn in the hazardous waste - upon generation to the 90-day hazardous waste accumulation area (PPOC 90-day yard).
2. Establish a SAP - accumulate the waste temporarily, at a location at or near the point of generation, under the operator's control.

Satellite Accumulation Point Operations

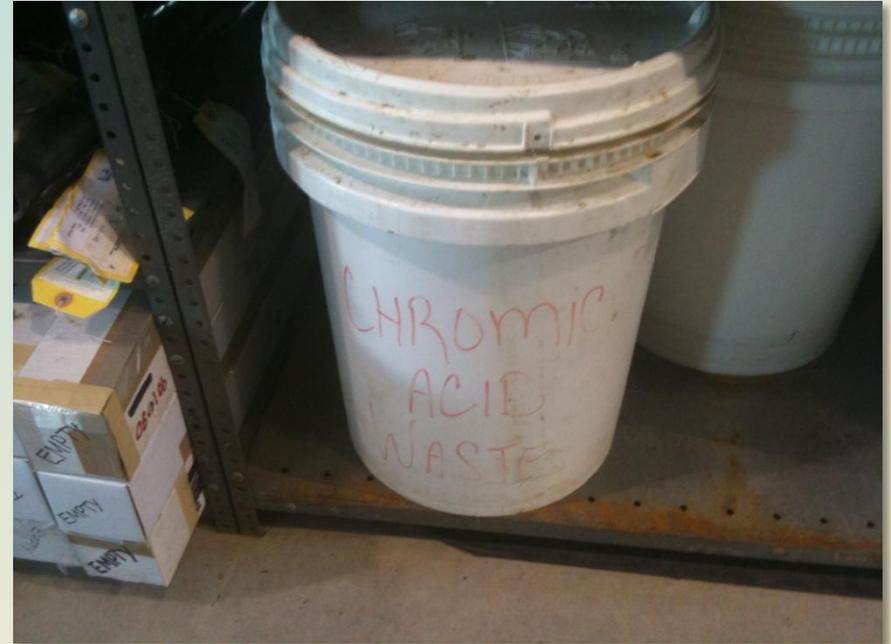
Waste Management

Hazardous Waste Compliance



Waste Process – Metal Plating

Initially 2 products used.
Later, 9 products used to
Treat metals



Waste Stream – Plating Solution

Marked “Chromic Acid Waste”

Is this the correct marking?

Is a SAP required?

Is secondary containment required?

Satellite Accumulation Point Operations

Waste Management

Hazardous Waste Compliance



Waste Process – Metal Plating

Lab analysis revealed toxic characteristics :

- D004 (Arsenic)
- D006 (Cadmium)
- D007 (Chromium)



Waste Stream – Plating Solution

Label "Hazardous Waste Plating Solution"
Establish a SAP for the waste process.
Provide secondary containment.

What About Contaminated Rags?

POL Contaminated Rags

Post Laundry Is no longer providing Services to POL Contaminated rags

5 lbs. or less can be bagged and put in the shop return locker, or taken to the PPOC

If not dripping, can be disposed of in the refuse dumpster.

ENVIRONMENTAL GUIDANCE HANDBOOK
This is an UNCONTROLLED DOCUMENT printed for reference only. The controlled document is on-line on the Fort Campbell Internet under Directorate of Public Works, Environmental Division.
<http://www.campbell.army.mil/campbell/directorate/DPW/envdiv/Pages/default.aspx>

RAGS

POSSIBLE AREAS OF CONCERN

Cloth rags saturated with POL or other materials may be flammable and/or toxic.

CHARACTERIZATION

Cloth rags contaminated with POL are considered **non-hazardous waste**.

CONTAINER MARKING AND HANDLING PROCEDURES

Step 1 Deliver USED POL RAGS to **Post Laundry** in a metal can with unit name and container lid in place. Units must have a current signature card (DA 1687). Turn-around time is five working days.

Step 2 Post Laundry will launder rags, place clean rags into your container and will notify you to pick up your clean rags.

Step 3 If the unit does not want the rags returned, post laundry will keep the rags for another unit that may need them.

NOTE: See page A-70 for rags contaminated with items other than POL products.

NOTE: POL-contaminated rags may be bagged and placed in return locker (5 lbs or less) or larger quantities may be taken to PPOC for disposal.



Rags may be toxic/flammable depending on the contaminant.

GENERAL INFORMATION

For additional information contact **PPOC Services**.

Rags Contaminated with Solvents or other Hazmat

Bag, Label, and Place in the Hazmat Return Locker

Emergency Procedures & Prevention

Hazardous Substance Spills

HAZARDOUS SUBSTANCE SPILLS

POSSIBLE AREAS OF CONCERN

Hazardous substances, when spilled, pose a risk to individuals and the environment.

CHARACTERIZATION

Many hazardous materials and substances are used in the daily operation of the installation pose physical, health and environmental hazards.

HANDLING PROCEDURES

- Step 1** Materials Safety Data Sheets (MSDS) should be maintained on all hazardous materials.
- Step 2** Employees should be familiar with, and trained on, the potential hazards of chemicals in the workplace, coordinating with **Installation Safety Office** (Hazcom CAM Reg 385-6) for training requirements.
- Step 3** If spills occur with chemicals that are not routinely used, or if employees are not trained and equipped with proper spill clean up materials, 911 should be called.
- Step 4** If there is a question about clean up and reporting, contact **Environmental Division Spill/Storage Tank Program** for guidance.

NOTE: Mercury spills of any quantity must be reported to 911.



Hazardous substances,
including mercury

GENERAL INFORMATION

The following information should be relayed when reporting a spill: Name/Phone/Unit of individual reporting the spill; location of spill; name and amount of spilled material; rate currently spilling; extent of spill, including drainage features; injuries, if any; time spill occurred, and any additional information.

Spill materials for specific chemicals may be obtained from the **PPOC Services**.

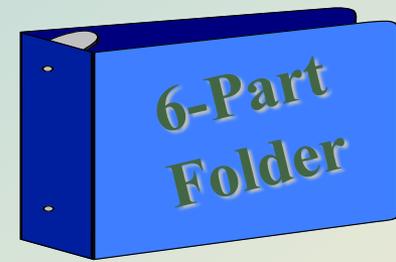
For POL and Fuel Spills see protocol sheet A-36.

**Know the
Potential
Hazards

If Not
Trained
and
Equipped

Call 911**

Satellite Accumulation Point Operations



Documentation of Cradle-to-Grave Management

Record Keeping (40 CFR Part 262.40): Show the regulator what unit/activity generated the hazardous waste and when it was turned-in to the 90-Yard for final disposition. Generators within the 101st Airborne Division (AASLT) will utilize the Waste Turn-In Log. Tenant unit/activity will utilize a DD Form 1348-1a as proof of turn-in or chain-of-custody of the hazardous waste.

The hazardous waste program manager will keep a copy of each manifest signed for three years from the date the waste was accepted by the initial transporter to the Treatment, Storage, or Disposal Facility (TSDF).

Fort
Campbell



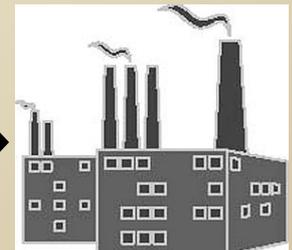
Hazardous Waste
90-Day Yard



Transporter



TSDF



Satellite Accumulation Point

How to Establish a SAP

Refer to the appropriate protocol sheet for the waste, or call Environmental Division Hazardous Waste if unsure.

Forward a memo, signed by the Commander and EQO requesting establishment of the SAP, to the Hazardous Waste Program Manager. Also provide a diagram depicting the SAP location.

When the SAP is approved, the ENV DIV will assist the primary individual in constructing a Six-Part Folder, a tool used to manage hazardous and universal waste from cradle to grave, to include records of inspection, training and turn-in of hazardous waste.

The Environmental Division will provide initial and annual SAP training to assist the unit in managing the SAP and maintaining environmental compliance.

Satellite Accumulation Point Operations



PART I

Site Certification and Admin

Commander/Director Memo
Site Specific Drawing
HW Program Manager Memo
EQO Certificate
HW Operator Certificate
Operators Training Roster
Deployment Memos (Military)

PART II

FTCKY Hazmat Inventory Form

List the products and waste managed at the SAP

PART III

Product Material Safety Data Sheets (MSDS's)

Insure there are no compatibility issues at the site

PART IV

Waste Profiles

Generator knowledge or analysis of process wastes to ensure proper manifesting to the Treatment, Storage and Disposal Facility (TSDF)

PART V

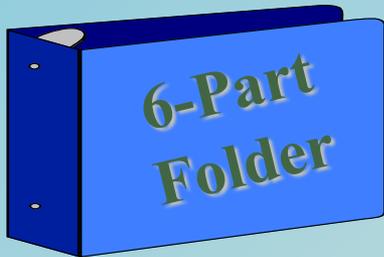
Site Inspections (*On file for three years*)

Weekly operator inspections, monthly environmental division inspection, and regulatory inspections

PART VI

Chain of Custody/Waste Turn-In Log

Utilize chain of custody turn-in log or DD Form 1348-1a for turn-in of hazardous waste.



PART I

**Site Certification and Admin
Commander/Director Memo**

- **Form is included in 6-Part Folder**
- **Fill-in-the blanks**
 - Unit/Activity
 - Date of memo
 - Waste streams
 - SAP establishment date
 - SAP location
 - Deployment instructions
 - POC information
 - Commander / Manager and EQO signatures

DEPARTMENT OF THE ARMY

Fort Campbell, Kentucky 42223

AFZB- _____

_____ Date

MEMORANDUM FOR the Environmental Division, Pollution Prevention Branch

SUBJECT: Request Certification/Recertification of a Satellite Accumulation Point (SAP)

1. Request establishment or re-establishment of a SAP for the following wastes: _____.
2. The estimated date of installation should be _____.
3. This SAP site will be established at building _____ located near the intersection of _____ in room _____.
4. The SAP at this location will be maintained and managed IAW applicable regulations. When waste containers are filled, the PPOC at 2nd and Wickham Avenue will be notified for waste pick-up (798.9790). Any deployment over 10 days will require closure of the above site. Questions should be brought to the Environmental Division's Pollution Prevention Branch (798.9763/9105).
5. The Environmental Quality Officer (EQO) is _____ and can be contacted at phone number _____.
6. The point of contact for this memorandum is _____ and can be contacted at phone number _____.

Commanding

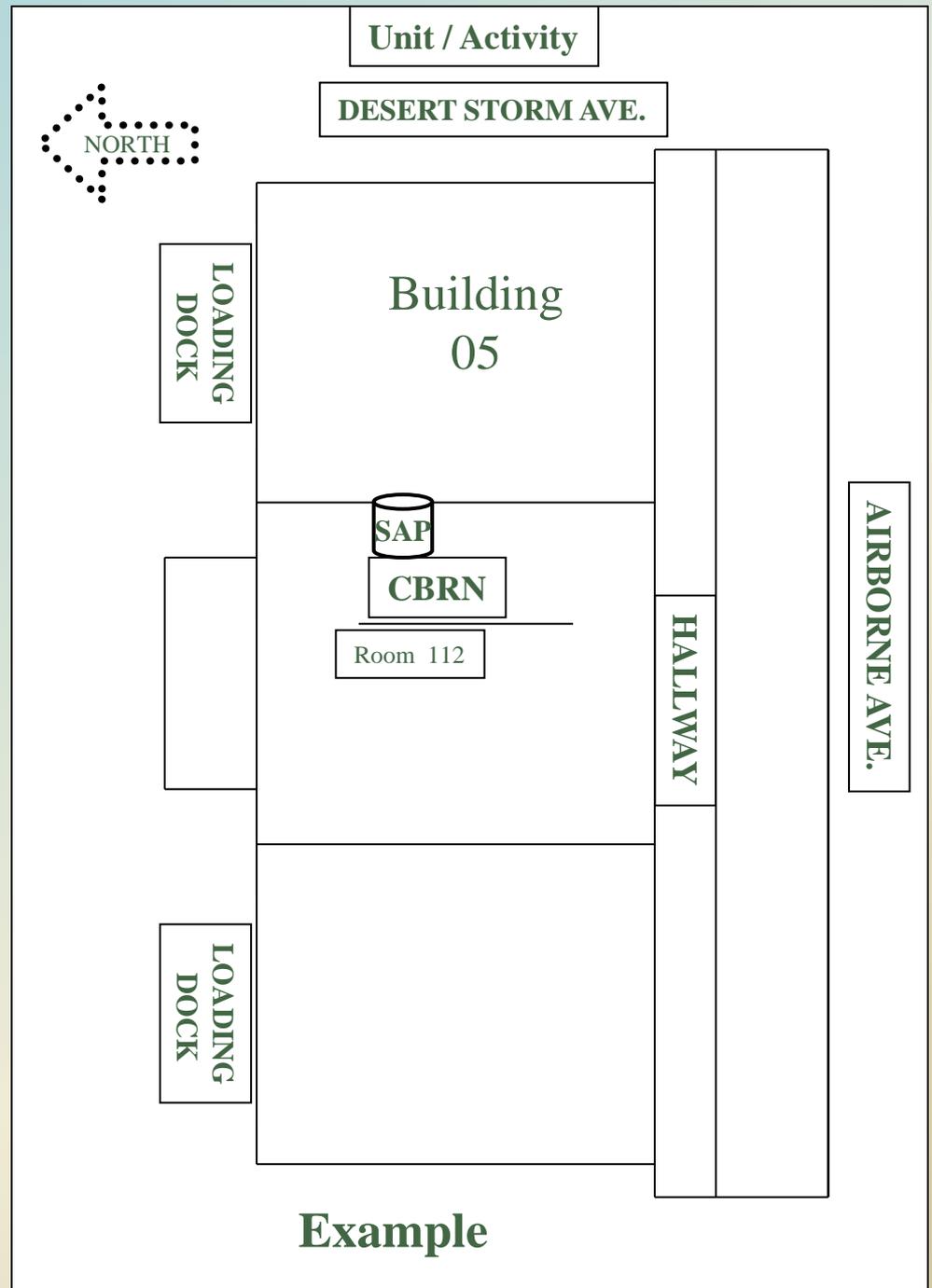
Environmental Quality Officer

6-Part Folder

PART I

Site Certification and Admin
Site Specific Drawing

- **Drawing depicting SAP location**
 - May be drawn by hand
 - May use the fire escape plan
 - Annotate the location of the SAP
 - Provide room number, if applicable





6-Part Folder

PART I



Site Certification and Admin

HW Program manager Approval Letter

- **Approved for one year**
- **Bold highlighting: Unit/Activity; Waste streams; SAP location**
- **Recertified annually**
- **Para 4, SAP management**
 - a) **Point of generation**
 - b) **Volume limits**
 - c) **Labeling & marking**
 - d) **Container requirements**
- **Six Part Folder**
- **POC for assistance**

IMSE-CAM-PWE

APPROVED: 04 September 2012

EXPIRES: 04 September 2013

MEMORANDUM FOR Commander, Headquarters, Headquarters Detachment, 718th Military Police Company, 101st Airborne Division (Air Assault), ATTN: CPT Charles A. Telesco and SSG Geoffrey S. Carpenter (270-956-3168), and SGT Ryan Collins (931-217-9174).

SUBJECT: Satellite Accumulation Point (SAP) Certification

1. **HHD, 218 MP CO**, generates the following hazardous/universal waste streams: **C2 mask filters and M256/M258 NBC kits**. **Used batteries (lithium, mercury, magnesium, etc.) will be stored in the BN Commo Shop.**
2. **HHD, 716 MP BN**, is granted approval to maintain the SAP at the **CBRN Room 106 in Building 6732** at Air Assault Street and A Shau Valley Road. A site-specific contingency plan drawing and six-part folder must reflect these waste streams. The SAP may be inspected for compliance by the Environmental Division and is subject to federal and state regulations.
3. This SAP accumulation status must be re-certified annually. A request must be sent to the Environmental Division concerning any changes to the SAP's location or to the waste streams being accumulated.
4. The SAP will be established as follows:
 - a. The SAP will be at or near the point of generation and under control of the operator of the process generating the waste.
 - b. Accumulation of waste at the SAP must not exceed 55 gallons of hazardous waste or 1 quart of acute (toxic) hazardous waste.
 - c. Each hazardous waste container must be properly labeled, by clearly marking the container with the words "Hazardous Waste" along with the name of the waste or hazardous constituents in the waste stream. If universal waste lamps are accumulated, container(s) must be properly labeled by clearly marking each container with the words "Universal Waste Lamps" and dated the day the first spent lamp is deposited in the container (accumulation start date).
 - d. Waste containers must only be used for the intended purpose and maintained in good physical condition and kept closed at all times except when adding or removing waste.
 - e. A six-part folder will be maintained for the SAP in accordance with the Fort Campbell Environmental 101 Handbook protocols.
5. Point of contact is Daniel N. Hixson, PWBC, Environmental Division, Pollution Prevention, telephone: 270.798.9763. E-mail: dan.hixson@us.army.mil.

BILL BAGGETT
Hazardous Waste Program Manager
Pollution Prevention Branch

**6-Part
Folder**

PART I

Site Certification and Admin
(Retain for three years)

Training Certificates
- EQO and SAP Operator(s)



Hazardous Waste Training Program



DEPARTMENT OF THE ARMY
CERTIFICATE OF TRAINING

This is to certify that

Attendee

has successfully completed the

***SATELLITE ACCUMULATION POINT
OPERATIONS COURSE***

04 September 2012

(Expires 04 September 2013)

Given at Fort Campbell, Kentucky

*Mr. Bill Baggett, Hazardous Waste Program Manager, Pollution Prevention Branch
Public Works Business Center, Environmental Division*



DEPARTMENT OF THE ARMY CERTIFICATE OF TRAINING

This is to certify that
CW3 Charlie Brown
has successfully completed

Environmental Quality Officers Course
08/01/2005 - 08/05/2005

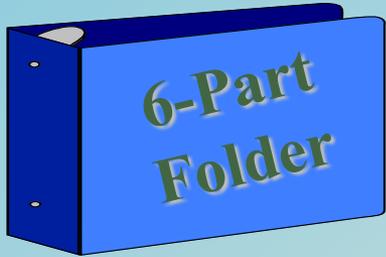
40 Hours

Given at Fort Campbell, KY

Ronald G. Ballard

Mr. Ronald G. Ballard, GS13, Chief, Environmental Division

Retain training
documentation
3 years



PART I

Site Certification and Admin
(Retain for three years)

SAP Operators Training Roster

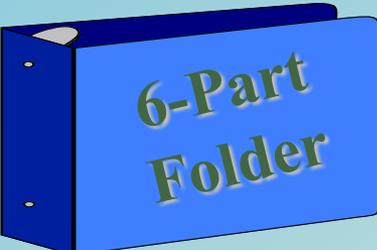
- **An interim training tool**
 - EQO may provide training using the SAP Poster
 - Training is good for 30 days.
 - Beyond that date, the SAP Operator Course is required.

SAP OPERATORS TRAINING ROSTER

UNIT: _____ TRAINED BY: _____

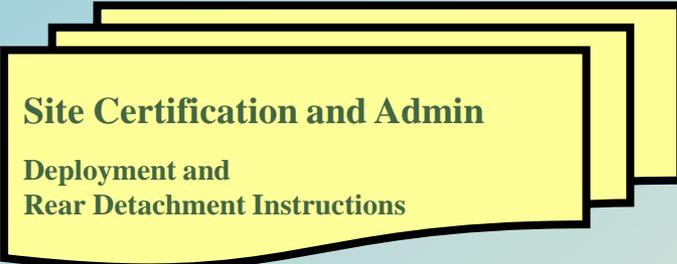
The following personnel have received "Operator Level" training and understand the regulatory requirements to maintain environmental compliance within a Satellite Accumulation Point (SAP):

	NAME (PLEASE PRINT)	RANK	DATE
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			



6-Part Folder

PART I



Site Certification and Admin

Deployment and Rear Detachment Instructions

- Instructions - included in the Environmental Handbook
 - Procedures for HW and POL compliance
 - SAP Closure – decision point
 - POL Closure – decision point
 - What to do if the SAP or POL site remains open while deployed

DEPLOYMENT and Rear Detachment INSTRUCTIONS FOR HAZARDOUS WASTE & POL COMPLIANCE

Environmental Quality Officers (EQO's) are to be maintained by Unit Rear Detachments, and continued compliance of all environmental issues is required.

SATELLITE ACCUMULATION POINT PROCEDURES

1. Coordinate with the unit Environmental Quality Officer (EQO) to ensure regulatory compliance with hazardous waste requirements. If no EQO is appointed, contact Environmental Division Environmental Education Training Program (270-798-9771/9595).
2. SAP Closure. If all unit CBRN (NBC) assets are deployed, close the Satellite Accumulation Point (SAP).
 - a. Submit a SAP closure memo signed by the Commander and EQO to the Environmental Division (798-9786/9763/9762).
 - b. Turn in hazardous waste to the 90-Day Yard located at 2nd and Wickham (798-9790).
 - c. Place a copy of the SAP closure memo on the outside of the CBRN (NBC) room door.
 - d. Keep the SAP Poster, 6-Part Folder, and the empty accumulation containers for use when the unit returns to Fort Campbell.
3. If the SAP remains OPEN. If the SAP is needed to manage CBRN waste generated by rear detachment personnel, keep the SAP open and ensure a SAP Operator is appointed and trained (798-9786/9763/9762). Comply with the requirements listed on the SAP Poster and ensure weekly SAP inspections are documented by the SAP Operator.

PETROLEUM, OILS & LUBRICANTS (POL) ACCUMULATION POINTS

1. Coordinate with the unit Environmental Quality Officer (EQO) to ensure regulatory compliance. If no EQO is appointed, contact Environmental Division Environmental Education Training Program (798-9771/9595).
2. Commanders may authorize Reserve or National Guard units the use of the POL Accumulation Point in lieu of closure. Coordinate transfer of management of the POL point with Environmental Division Hazardous Waste (798-9786/9763/9762).
3. POL Accumulation Point Closure. If all vehicles and generators are deployed and there is no need to accumulate POL products, close the POL accumulation point.
 - a. Submit a POL Accumulation Point closure memo signed by the Commander and EQO to the Environmental Division (798-9786/9763/9762).
 - b. Call 798-9790 to have the Used Oil and Used Antifreeze removed from accumulation drums.
 - c. Secure POL secondary containment units (SCU) until the unit returns to Fort Campbell or coordinate turn-in. Serviceable SCUs - PPOC (798-9790). Unserviceable SCUs - DRMO (798-3525).
4. If the POL Site remains OPEN. If the POL Site is needed to manage POL generated by rear detachment, keep the site open. Comply with the requirements listed on the POL Accumulation Point Poster and ensure weekly inspections are documented.

Satellite Accumulation Point

SAP Closure

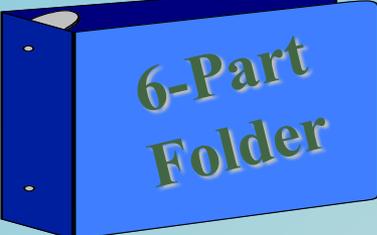
If all CBRN (NBC) assets are deployed, close the Satellite Accumulation Point (SAP).

Submit a SAP closure memo signed by the Commander and EQO to the Environmental Division (798-9763).

Turn in Hazardous Waste to the 90-Day Yard located at 2nd and Wickham (798-9790). **Call first**, to minimize wait.

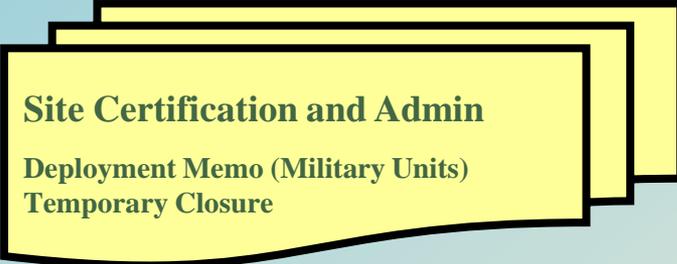
Place a copy of the SAP closure memo outside the CBRN (NBC) room door.

Keep the SAP poster, 6-Part Folder, and **empty** accumulation containers for use when the unit returns to Fort Campbell.



6-Part Folder

PART I



Site Certification and Admin

Deployment Memo (Military Units) Temporary Closure

- Included in Six-Part Folder
- Fill-in-the blanks
 - Unit/Activity
 - Date of memo
 - Estimated date of departure & return
 - SAP location
 - Waste streams
 - Instructions
 - POC information
 - Commander / Manager and EQO signatures

DEPARTMENT OF THE ARMY

Fort Campbell, Kentucky 42223

AFZB-_____

Date

MEMORANDUM FOR The Environmental Division, Pollution Prevention Branch

SUBJECT: Request Temporary Closure of a Satellite Accumulation Point (SAP)

1. Request temporary closure due to deployment or training for a period of 10 days or more.
2. The estimated date of departure is _____ and the date of return is _____.
3. This SAP to be temporarily closed is located at Building _____ located near the intersection of _____
in room _____.
4. Approved waste streams accumulated at this SAP are _____

5. All waste containers will be emptied by turning the waste in at the PPOC located at 2nd and Wickham Ave. (798-9790). A copy of this memo will be forwarded to the Environmental Division's Pollution Prevention Branch (798-9763) and a copy placed in the SAP six-part folder. Upon return from deployment or training, this site acknowledges no waste will be accumulated until coordination is made with the Hazardous Waste Program Manager (798-9763/9786) to request that the SAP be opened.
6. The Environmental Quality Officer (EQO) is _____ and can be contacted at phone number _____.
7. The point of contact for this memorandum is _____ and can be contacted at phone number _____.

Commanding

Environmental Quality Officer

FTCKY HAZMAT INVENTORY FORM

Ft. Campbell Environmental Division Pollution Prevention Branch/ 798-3105

Date: 05 FEB 13

Page 1 of 1

Unit (Bde, Bn, Co): A-7-101 AVN

Bldg #: 7218

State: KY

POC: SSG John

Phone #: 798-1111

Bldg Description: Headquarters
(i.e. motor pool, aviation hangar, office building, etc.)

HazMat Storage Location: CBRNE Room
(i.e. flammable wall locker, supply closet, etc.)

NSN (If unknown, attach MSDS)	Manufacturer Name	Material Name	Material Use (i.e. Intermediate/Depot Level Maintenance, Weapons Cleaning, Etc.)	Disposal Procedure (i.e. Consumed, DPW, DRMO, Recycled, Etc.)	Maximum # Containers Kept On Hand	Weight/Volume Per Container (i.e. 1 qt, 5 gl, 16 oz, 1 ea, etc.)	Cntrs Used Per Month (Approx.)
<i>Example: 6810-00-281-2785</i>	<i>CSD INC.</i>	<i>MEK</i>	<i>Degreaser</i>	<i>Turned in for HazWaste Disposal</i>	<i>1 Can</i>	<i>1 Gal.</i>	<i>1</i>
4240-01-119-2315	Calgon Corp.	C2 Canister, Black	Chemical Defense	Turned in to PPOC For HW Disposal		1 ea.	

- **Follow the example**
- **Fill-in-the blanks**
 - Heading information
 - NSN, if applicable
 - Manufacturer (there may be more than one)
 - Material Name
 - Material Use
 - Disposal Procedure
 - Maximum Containers on Hand (use pencil, change as required)
 - Weight / Volume per Container
 - Containers Used Per Month (use pencil, change as required)

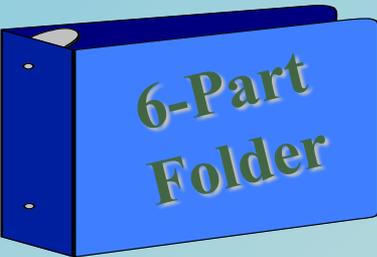
PART II

**FTCKY Hazmat Inventory
Form**

Products and waste
managed at the SAP

*Note: The above information is requested in compliance with Executive Order 12856 and the Emergency Planning and Community Right-To-Know Act.
Please provide complete and accurate information for each product listed on this form.*

Updated 9/98



6-Part Folder

PART III

Product Material Safety Data Sheets (MSDS's)

MSDSs for hazmats listed in Part II

Provides

- Chemical constituents
- Chemical & physical hazards
- Signs & Symptoms of exposure
- First aide procedures
- Protective clothing & equipment
- What to do if a spill occurs
- What to do if a fire occurs
- Incompatibility & reactivity information
(Ensure there are no compatibility issues at the site)

MSDS Safety Information

Item Description Information

Ingredients

Health Hazards Data

Handling and Disposal

Fire & Explosive Hazard Information

Control Measures

Physical and Chemical Properties

Reactivity Data

Ecological Information

Transportation Information

6-Part Folder

PART IV

Waste Profiles

Generator knowledge or analysis of process wastes to ensure proper manifesting to the Treatment, Storage and Disposal Facility (TSDF)

Prepared and Signed by the HW Program Manager

- Waste Identification
- EPA Waste code(s)
- Generating process
- Waste characterization
- Waste composition
- DOT proper shipping name

HAZARDOUS WASTE PROFILE SHEET																					
PART I																					
A. GENERAL INFORMATION		WASTE PROFILE NO. <u>W34GNB-0014</u>																			
GENERATOR NAME <u>HQ, 101st Airborne (Air Assault) Div.</u>																					
2. FACILITY ADDRESS <u>DPW-PP</u>		3. GENERATOR USEPA ID <u>TN5210020140</u>																			
<u>Ft. Campbell, KY</u>		4. GENERATOR STATE ID <u>TN5210020140</u>																			
6. ZIP CODE <u>42223</u>		7. TITLE <u>Env. Prot. Spec.</u>																			
5. TECHNICAL CONTACT		PHONE <u>(502) 798-4740</u>																			
B. 1. NAME OF WASTE <u>Mask Filters (Whetlerite charcoal)</u>																					
2. USEPA/STATE WASTE CODE(S) <u>D007</u>																					
3. PROCESS GENERATING WASTE <u>Military Unit</u>																					
4. PROJECTED ANNUAL VOLUME/UNITS <u>unk</u>																					
5. MODE OF COLLECTION <u>box</u>																					
6. IS THIS WASTE A DIOXIN LISTED WASTE AS DEFINED IN 40 CFR 261.31 (e.g., F020, F021, F022, F023, F025, F027, OR F028)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO																					
7. IS THIS WASTE RESTRICTED FROM LAND DISPOSAL (40 CFR 268)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																					
HAS AN EXEMPTION BEEN GRANTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO																					
DOES THE WASTE MEET APPLICABLE TREATMENT STANDARDS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO REFERENCE STANDARDS _____																					
PART II																					
1. MATERIAL CHARACTERIZATION (OPTIONAL-NOT REQUIRED DATA)		4. MATERIAL COMPOSITION																			
COLOR <u>Black/gray</u>		<table border="1"> <thead> <tr> <th>COMPONENT</th> <th>CONCENTRATION</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Graphite, Synthetic</td> <td></td> <td>88%</td> </tr> <tr> <td>Copper</td> <td></td> <td>8%</td> </tr> <tr> <td>Chromic Acid</td> <td></td> <td>3%</td> </tr> <tr> <td>Silver</td> <td></td> <td>.1%</td> </tr> <tr> <td>TOTAL</td> <td>100%</td> <td></td> </tr> </tbody> </table>		COMPONENT	CONCENTRATION	RANGE	Graphite, Synthetic		88%	Copper		8%	Chromic Acid		3%	Silver		.1%	TOTAL	100%	
COMPONENT	CONCENTRATION	RANGE																			
Graphite, Synthetic		88%																			
Copper		8%																			
Chromic Acid		3%																			
Silver		.1%																			
TOTAL	100%																				
DENSITY <u>N/A</u> BTU/LB <u>N/A</u>																					
TOTAL SOLIDS <u>100%</u> ASH CONTENT <u>N/A</u>																					
LAYERING: <input type="checkbox"/> MULTILAYERED <input type="checkbox"/> BRAYERED <input type="checkbox"/> SINGLE PHASE																					
RCRA CHARACTERISTICS																					
PHYSICAL STATE: <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> SEMI-SOLID																					
<input type="checkbox"/> GAS <input type="checkbox"/> OTHER																					
TREATMENT GROUP: <input type="checkbox"/> WASTEWATER <input type="checkbox"/> NON-WASTEWATER																					
<input type="checkbox"/> IGNITABLE (D001) <input type="checkbox"/> REACTIVE (D003)																					
FLASH POINT (F) _____ <input type="checkbox"/> WATER REACTIVE																					
<input type="checkbox"/> HIGH TOC (> 10%) <input type="checkbox"/> CYANIDE REACTIVE																					
<input type="checkbox"/> LOW TOC (< 10%) <input type="checkbox"/> SULFIDE REACTIVE																					
<input type="checkbox"/> CORROSIVE (D002) <input type="checkbox"/> TOXICITY CHARACTERISTIC (SEE REVERSE FOR LISTING)																					
pH _____																					
<input type="checkbox"/> CORRODES STEEL																					
3. CHEMICAL COMPOSITION (ppm or mg/L) <u>N/A</u>		5. SHIPPING INFORMATION																			
COPPER _____ PHENOLICS _____		DOT HAZARDOUS MATERIAL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																			
NICKEL _____ TOTAL HALOGENS _____		PROPER SHIPPING NAME <u>Hazardous Waste Solid, N.O.S. 9, NA3077, PG III</u>																			
ZINC _____ VOLATILE ORGANICS _____		HAZARD CLASS <u>9</u> RCRA or N.A. NO. <u>3077</u>																			
CHROMIUM-HEX _____ PCBs _____		ADDITIONAL DESCRIPTION <u>PG III</u>																			
(OTHER) _____		METHOD OF SHIPMENT <input type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER: _____																			
NOTE: EXPLOSIVES, SHOCK SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE NORMALLY ARE NOT ACCEPTED BY THE DRMO.		CERCLA REPORTABLE QUANTITY (RQ) _____																			
		EMERGENCY RESPONSE GUIDE PAGE _____																			
		DOT PUBLICATION 800.4 PAGE NO. _____ EDITION (YR) _____																			
		SPECIAL HANDLING INFORMATION _____																			
6. GENERATOR CERTIFICATION																					
BASIS FOR INFORMATION																					
<input type="checkbox"/> CHEMICAL ANALYSIS (ATTACH TEST RESULTS)																					
<input checked="" type="checkbox"/> USER KNOWLEDGE (ATTACH SUPPORTING DOCUMENTS - Explain how and why these documents comply with RCRA requirements) <u>MSDS attached</u>																					
1. <u>Bill Baggett</u> (Print or Type Name) HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS TO THE BEST OF MY KNOWLEDGE AN ACCURATE REPRESENTATION OF THE WASTE TURNED TO THE DRMO. ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.																					
SIGNATURE OF GENERATOR'S REPRESENTATIVE <u>Bill Baggett</u>			DATE <u>10-18-95</u>																		

6-Part Folder

PART V

SAP Inspections (*Retain for three years*)

Monthly environmental division SAP Inspections, and

Regulatory inspections

• RCRA Violations

- Volume Limits
- Point of Generation
- Under Control
- Container requirements
- Labeling & Marking

• Best Management Practices

- Secondary containment - liquids
- Proper management?
- EQO – assigned on orders, trained
- HW process familiarity
- Helpful numbers

RCRA SATELLITE ACCUMULATION POINT INSPECTION CHECKLIST

UNIT: _____

INSPECTOR: SSG Neville M. Watkins
Daniel N. Hixson
John E. Tuttle

HW ONSITE: HAZARDOUS WASTE NON-RCRA WASTE
UNIVERSAL WASTE

INSPECTOR'S SIGNATURE _____

INSPECTION DATE: _____

PHONE: 270-798-9763/9105

BLDG. #: _____ NEXT SAP CLASS: _____ NEXT EQO CLASS: _____

RCRA COMPLIANCE (Class I Finding)	YES	NO	REMARKS / CORRECTIVE ACTION	ERC
Generator <u>is not</u> accumulating over 55 gallons of hazardous waste or one quart of acutely hazardous waste on-site. [40 CFR §262.34(c)(1)] HW.75.1.US.			<i>UW has no gallon or pound limit.</i>	TT01 CM04
Hazardous waste containers are at or near any point of generation where wastes initially accumulate. [40 CFR §262.34(c)(1)] HW.75.1.US.				TT01 CM04
Hazardous waste is under the control of the operator of the process generating the waste. [40 CFR §262.34(c)(1)] HW.75.1.US.				TT01 CM04
Container must be in good condition / not leaking. [40 CFR §262.34(c)(1)(i) and §265.171] HW.75.1.US.				TT01 CM04
Container must be compatible with waste storage. [40 CFR §262.34(c)(1)(i) and §265.172] HW.75.1.US.			Damaged container: Yes No	TT01 CM04
Container must be closed except when necessary to add or remove waste. [40 CFR §262.34(c)(1)(i) and §265.173(a)] HW.75.1.US.			Open container: Yes No	TT01 CM04
Marks container either with the words "Hazardous Waste" <u>and</u> other words that identify the contents of the containers. [40 CFR §262.34(c)(1)(ii)] HW.75.1.US.			Improper label No label	TT01 CM04
INTERNAL ACTIVITY/UNIT CHECKS	YES	NO	REMARKS	
Do container(s) accumulating hazardous, <u>liquid</u> waste have adequate secondary containment to prevent waste from entering the environment? (BMP)				
Has the SAP site been established and managed properly? (BMP)				
Has an EQO been assigned via orders to your unit? (BMP)			EQO Name/Phone #: _____	
Area identified with SAP compliance poster? (BMP)				
Fire extinguisher available (sealed, inspected every 30 days, certified annually / gauge is in the green). <u>Required for Universal Waste Sites only.</u>				
Is the operator familiar with the process that generates the hazardous waste(s)?				
HELPFUL NUMBERS	UNIT / ACTIVITY SITE REPRESENTATIVE			
Environmental Training: Bob Fletcher, 798-9595 Command Safety: 798-6789/2327 Preventive Medicine: 798-8695 Haz Waste Program Manager: Bill Baggett, 798-9786 Haz Waste / POL Support: Dan Hixson, 798-9763 Special Duty NCO(s): 798-9783/9105	PRINTED NAME: _____			
	PHONE NUMBER: _____			
	SIGNATURE: _____			

FOR HAZARDOUS WASTE PICK-UP CALL 270-798-9790

CBRN WASTE: CALL 270-798-9790 FOR APPT.--TAKE WASTE TO PPOC AT 2ND STREET AND WICKHAM AVENUE.
A 55 GALLON LIMIT ON EACH HAZARDOUS WASTE SAP - 1 QUART LIMIT ON ACUTE HAZARDOUS WASTE.

6-Part Folder

PART VI

Chain of Custody/Waste Turn-In Log

May utilize chain of custody Turn-In log or DD Form 1348-1a to document Turn in of hazardous waste.

PWBC-Environmental Division Hazardous/Universal Waste Turn-In Log

Fill Date	Approved Waste Stream	Quantity	Received By	Date Received

PWBC-Environmental Division Hazardous/Universal Waste Turn-In Log

Fill Date	Approved Waste Stream	Quantity	Received By	Date Received
05 FEB 13	M256 Chemical Detector Kit	5 GL	Receiver's Signature	05 FEB 13

OPTIONAL

Note: The PPOC may require some activities to fill out a DD Form 1348-1A.

6-Part Folder

PART VI

Chain of Custody / Waste Turn-In Log

Complete DD Form 1348-1a
If required.

Contact DLA Disposition Services
(DRMO) for assistance in
Completing form

Who fills out the
DD Form 1348-1a?

Quantity: 8
Fund: 51
Ship From: ISSD Bldg. 5207 Pfc. Cathy
Ship To: DRMO FTCKY
Mark For: HW
Item: Image Intensifier Tube
NSN: One NSN 5855-00-132-2386
Activity: W34QV6

DD FORM 1348-1a, JUL 91
ISSUE RELEASE RECEIPT DOCUMENT
21. ADDITIONAL DATA

USDA/DA

DD FORM 1348-1a properly
completed for turn-in

Pollution Prevention Operation Center Hazardous Waste Pick-up
Personnel complete the DD Form 1348-1a.

There may be special occasions when any unit or activity may be requested
to provide a completed DD form 1348-1a.

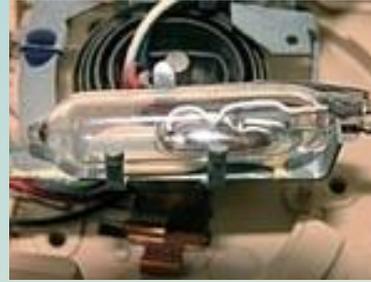
Discussion Items

Universal Waste

Fluorescent Bulbs

Batteries

Universal Waste Management



UNIVERSAL WASTE	
CONTENTS	Lithium batteries
ACCUMULATION START DATE	01 JAN 00
SHIPPER	
ADDRESS	
CITY, STATE, ZIP	
<small>Lab Safety Supply Inc.</small>	<small>Reorder No. 42109</small>

What is Universal Waste?

Common hazardous wastes such as batteries, recalled or discontinued pesticides, mercury containing items (thermostat ampoules, mercury switches, thermometers, etc), and mercury containing lamps that are generated, stored and recycled or reclaimed off-site.

Universal waste can be accumulate for up to one year from the date the waste was generated by the unit / activity.

Mercury containing lamps are accumulated as universal waste to prevent mercury from entering the environment. BMP require universal waste lamps to be turned in within 6 months at established locations.



FLUORESCENT TUBES and MERCURY-CONTAINING LAMPS

POSSIBLE AREAS OF CONCERN

Small quantities of mercury, antimony, cadmium, barium, and lead are used to manufacture fluorescent bulbs and mercury vapor lamps, metal halide, halogen, and high pressure sodium lamps.

CHARACTERIZATION

All used lamps including fluorescent bulbs and mercury-containing lamps are universal wastes.

CONTAINER MARKING AND HANDLING PROCEDURES

- Step 1** Place used fluorescent tubes in the original container or shipping box provided. Box must be able to be closed (do not cut end out of box).
- Step 2**
- Label the box with "Universal Waste Lamps".
 - Date the box with the date the first used lamp is put in the box/container (used bulbs should not be maintained in area longer than 6 mos).
- Step 3** Always close container after adding bulb/lamp.
- Step 4** Transport used bulbs in a sturdy box to the appropriate consolidation points for your unit/activity.

NOTE: Broken tubes/bulbs should be swept up, bagged/containerized (BMP) and taken to Troop Self Help. If a lamp is broken off at the end and is too large to bag, place the lamp inside the Universal Waste fluorescent lamps box and take it to Troop Self Help.

- Troop Self Help, Bldg 5122, 3rd St & Wickham Ave.



Fluorescent tubes boxed, labeled and sealed.

NOTE: Troop Self Help will issue one for one exchange of bulbs to units and activities with an established account. Do Not Purchase Fluorescent tubes/lights on Government credit card (GPC).

GENERAL INFORMATION

All used bulbs are recycled, even the low level mercury-containing ones. For additional information contact Environmental Division Hazardous Waste.

Label Container

“Universal Waste Lamps”

Date Container
with the date

the first used lamp is
placed in the container

Keep Container Closed
Unless
Adding or Removing
Waste Lamps



Universal Waste Lamps

Authorized Locations

Troop Self-Help, Bldg. 5122

Fort Campbell Dependent Schools, Bldg. 1110

AAFES Main Exchange Warehouse, Bldg. 2840

BACH, J&J Maintenance, Room 1BJ03, off the loading dock.



Universal Waste Labeling or Marking

“Universal Waste Lamps”

and

Accumulation Start Date

UNIVERSAL WASTE	
CONTENTS	<u>Lamps</u>
ACCUMULATION START DATE	<u>05 FEB 13</u>
SHIPPER	_____
ADDRESS	_____
CITY, STATE, ZIP	_____

Lab Safety Supply Inc. Reorder No. 42109



Satellite Accumulation Point Operations

Abandoned or Mismatched Waste

Hazardous Waste Noncompliance Issues





Satellite Accumulation Point and Universal Waste Procedures for Easy Compliance

For waste turn-in, call: 270-798-9790

Technical assistance, call: 270-798-9763/9762/9786

Hazardous Waste SAP Unit/Activity _____ Bldg _____
EQO _____ Phone _____

- 1] Accumulation: no more than 55 gallons of HW or 1 quart of acute toxic waste.
- 2] Containers: keep clean, serviceable, and closed except when adding waste.
- 3] Label(s): ensure contents are identified - and no accumulation date(s).
- 4] Fill date: mark or label lid when the container becomes full. (D/M/Y)
- 5] Call for pick-up: the PPOC will prepare DD Form 1348-1A and document turn-in.
- 6] 6-Part Folder: maintain as directed in the Environmental Handbook.

Universal Waste Lamps

- 1] Accumulation: no more than six (6) months at the unit/activity.
- 2] Containers: keep clean, serviceable, and closed except when adding spent lamps.
- 3] Label(s): container labeled UNIVERSAL WASTE LAMPS and dated the day the FIRST spent lamp is deposited in the container.
- 4] Turn-In: turn in at the centralized location listed in the Environmental Handbook.
- 5] 6-Part Folder: centralized locations receiving universal waste lamps must maintain a SAP established and operated IAW the Environmental Handbook.

Black Mask Filters
M256/M258 Kits

Fill Date on Lid
(D/M/Y)

Label Container
"Hazardous
Waste"

(and contents)

Universal Waste
Lamps

(date D/M/Y
when
first lamp
is placed
in container)

BATTERIES (NON-LEAD-ACID)

Alkaline, Lithium, Nickel-Cadmium, Magnesium, NiCad, Mercury and
Other Rechargeable Batteries

POSSIBLE AREAS OF CONCERN

Alkaline, Lithium, Nickel-Cadmium, Magnesium, NiCad (wet), Mercury, Lithium-Ion, Nickel Metal Hydride and Rechargeable Batteries have chemicals that are a concern during routine use and disposal.

CHARACTERIZATION

All Lithium, Lithium-Ion, Nickel Metal Hydride, Nickel-Cadmium, Magnesium, and Mercury batteries may be Universal Waste. As a best management practice, all batteries will be collected as "Used Batteries", and waste determinations will be made by PPOC Battery Program personnel upon turn in.

HANDLING PROCEDURES

- Step 1 Battalion level unit Commo/S6/Activity contact PPOC Battery Program to establish program. (i.e., quantity, type, inventory, location).
- Step 2 Unit will maintain a Bench Stock. UBL will be maintained by PPOC Battery Program.
- Step 3 Unit/activity will secure an approved plastic container with closeable top.
- Step 4 Container will be labeled "Used Batteries" by way of printed label or by writing "Used Batteries" on the container.
- Step 5 Individual will sign out batteries from unit battery storage area.
- Step 6 When returning used batteries, individual will sign battery in, place it in Used Batteries container and get replacement (step 5).
- Step 7 When used batteries container is full, contact the PPOC Battery Program to schedule pick up.



Lithium, Nickel-Cadmium (NiCad), Lithium-Ion, Nickel Metal Hydride Magnesium, and Mercury batteries may be Universal Waste.



BMP: Non-Lead-Acid batteries must be placed in the "Used Batteries" container for convenience and appropriate sorting. Regulations allow alkaline batteries to be discarded in the regular refuse (solid waste) stream.

NOTE: DO NOT DISCHARGE LITHIUM COMMO BATTERIES ON FT. CAMPBELL. THEY WILL BE TESTED AND EVALUATED FOR CONTINUED USE.

NOTE: Directorates contact PPOC Battery Program for battery supply and turn in.

GENERAL INFORMATION

Alkaline batteries (AA, AAA, C, D, 9V) may be returned to the unit battery return area. For additional information contact PPOC Battery Program.

Non-Lead Acid Batteries

Alkaline
Lithium
Nickel Cadmium
Magnesium
Ni-Cad
Mercury
& other
Rechargeable Batteries

Contact the PPOC to
Schedule Pick-up

Do Not

- Segregate
- Tape
- Discharge

Manage as
"Used Batteries"

Waste
Determination
is made
at the PPOC

**NiCad
Aviation Batteries and
Solid Lead Acid
Batteries**

**Turn in
at PPOC**



NiCad Aviation Battery



SLAB Batteries

**ENV HB
Page
A-14**

**Lead Acid
“Exide”
Batteries**

**Establish
Exide Program
through SSA**



**ENV HB
Page
A-15**

**Lead Acid
“Government”
Vehicle Batteries**

**Contact DRMO
for turn in**



**ENV HB
Page
A-16**

**Lead Acid
“Non-Government”
Vehicles
and Equipment**

**Turn in at the
Convenience Center
or the
Purchase Location**



**ENV HB
Page
A-17**

Discussion Item

POL

Used Oil & Antifreeze

OIL (USED)

USED OIL includes all of the following items: Motor Oil, Diesel Fuel, Transmission Fluid, Brake Fluid, Hydraulic Fluid, Synthetic Oils, Heating Oil, Kerosene, & less than 55 gallons of JP8

POSSIBLE AREAS OF CONCERN

Used Oil potentially contains traces of metals such as chromium, cadmium and lead. Used oil items have a flash point above 100 degrees F.

CHARACTERIZATION

Used petroleum-based and synthetic oils are non-hazardous industrial wastes and are collected on the installation for recycling. Used Oil recycling generates money for MWR programs.

HANDLING PROCEDURES

- Step 1** A POL accumulation point is required for bulk quantities (drums or tanks) greater than or equal to 55 gallons. Contact **Environmental Division Hazardous Waste** to establish a POL accumulation point.
- Step 2** Contact **PPOC Services** to obtain a 55-gallon metal drum and Secondary Containment Unit (SCU)
- Step 3** Ensure drum(s), SCU, tank(s) and tank fill lines are marked "Used Oil."
- Step 4** Place Used Oil in the drum. Keep drum and SCU closed except when adding or removing contents. Locking is not required, but will ensure SCU remains closed.
- Step 5** Contact **PPOC HazWaste Pick-Up/Used Oil** for pickup.

NOTE: SCU must be located in an area accessible by a large truck for easy removal.

NOTE: Do Not mix Used Oil with antifreeze. If antifreeze is contaminated with Oil, contact PPOC Support to get additional guidance.

NOTE: Drip pans/SCU with oil and water should not be poured in Used Oil container. See Drip Pan guidance (A-27) for disposal suggestions.

NOTE: Mark oil carts "Used Oil" and empty them daily. Do not use oil carts for storage.



Used Oil SCU



Small quantities of Used Oil may be placed in your return locker in a "Used Oil" container for pickup

GENERAL INFORMATION

No solvents or other hazardous wastes can be mixed with Used Oil. If hazardous waste (brake cleaner, parts/weapons cleaner solvent) has been mixed with the oil, contact **PPOC Services**. Incidental amounts (less than 55 gallons) of fuels such as JP8 and diesel may be combined with the Used Oil. For quantities greater than 55 gallons, see protocol sheet, "Fuel JP8 Large Quantity," pg A-33. **DO NOT** place MÖGAS or Coleman Fuel in the Used Oil container. These items must be transported to the PPOC for disposal.

"Used Oil"



SCU's may be obtained through the PPOC

Mark
Container
and SCU
"Used Oil"

Do Not Mix
Solvents
Antifreeze
Gasoline
Other HW

POL Accumulation Point Weekly Inspection



Is Controlled
Access
Necessary?
(Key Control)





Used POL and Used Antifreeze Accumulation Point Procedures

Unit/Activity _____ EQO Rank/Name: _____ Phone: _____

Used Oil Accumulation

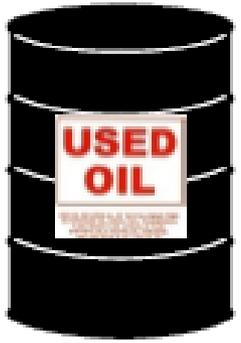
Proper labeling
"Used Oil"

Secondary Containment Unit (SCU)

Liquids Only - Must be Labeled Same as Drum

Keep SCU and Drum Closed
Unless adding or removing used oil

Keep Clean / Inspect Weekly



"Used Oil" includes: Motor oils, JP-8, diesel fuel, kerosene, heating oil, synthetic oil, transmission, hydraulic and brake fluids. Used oil is stored in steel drums only.

Used Antifreeze Accumulation

Proper labeling
"Used Antifreeze"

Secondary Containment Unit (SCU)

Liquids Only - Must be Labeled Same as Drum

Keep SCU and Drum Closed
Unless adding or removing antifreeze

Keep Clean / Inspect Weekly



"Used Antifreeze" containers will be white or blue poly containers only.

NO SMOKING WITHIN 50 FEET

📞 Emergency or Spill = 911 📞 For Pick-up or Pumping Tel: 270-798-9790 or 931-449-0954

For additional guidance, refer to the Environmental Handbook at <http://www.campbell.army.mil/campbell/directorates/DPW/envdiv/Pages/default.aspx>



- ✓ SCU Labeled
- ✓ Sign posted
- ✓ Drums Labeled
- ✓ Drums closed
- ✓ No leaks
- ✓ No FOD or other debris

POL Accumulation Point

Used Oil and Used Oil Filters



- Drain Table labeled “Used Oil”
- Collection Drum/Bucket labeled “Used Oil”
- Used Oil Filter Drum/Bucket labeled “Used Oil Filters”
- No leaks
- No FOD or other debris

POL Accumulation Point

Used Oil Above/Underground Storage Tank



Tank closed
Tank labeled “Used Oil”
Fill Lines labeled “Used Oil”
No leaks

POL Accumulation Point

To Establish a POL Accumulation Point

To determine if a POL point is required: Refer to the Antifreeze and/or “Oil (Used)” protocol sheet; call Environmental Division Hazardous Waste for help.

Forward a memo, signed by the Facility Manager and EQO requesting establishment of a POL accumulation point, to the Hazardous Waste Program Manager. Provide a diagram depicting the POL site location.

Folder documenting the memo, diagram, and inspection sheets (weekly and monthly). Records of training, maintained for 3 years.

Training. Initial and annual “Oil Handling Personnel” training is required for quantities \geq 55 gallons. Training is provided by SPCC/Storage Tank Program personnel.



DEPARTMENT OF THE ARMY

Fort Campbell, Kentucky 42223

AFZB-_____ Date _____

MEMORANDUM FOR The Environmental Division, Pollution Prevention Branch

SUBJECT: Request Establishment of a Petroleum, Oil, and Lubricant (POL) Accumulation Point

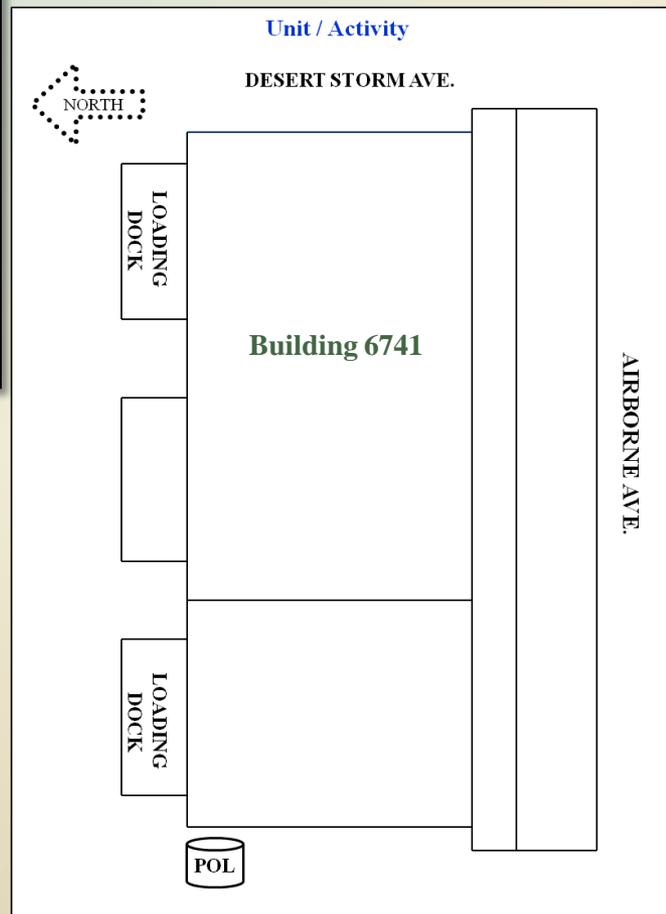
1. Request establishment of the POL at the following unit/activity _____
2. The estimated date of establishment will be _____.
3. This POL site is located in building _____ located near the intersection of _____ in room _____.
4. The POL at this location will be used to accumulate POL waste IAW applicable regulations. All waste containers will be emptied by calling the PPOC at 3rd and Wickham Ave. (798.9790). Forward this memorandum to the Environmental Division's Pollution Prevention Branch (798.9763/9105) and place a copy in your site spill plan folder. Secondary containment units (SCU) will be used at the site. POC for secondary container units (SCUs) is the Environmental Division (798.3105).
5. The Environmental Quality Officer (EQO) is _____ and can be contacted at phone number _____.
6. The point of contact for this memorandum is _____ and can be contacted at phone number _____.

Commanding

Environmental Quality Officer

Site Certification and Admin
Commander/Director Memo
Site Specific Drawing
Weekly & Monthly Inspections

Commander/ Director Memo
Site Specific Drawing



POL Accumulation Point

To Close or Move a POL Accumulation Point

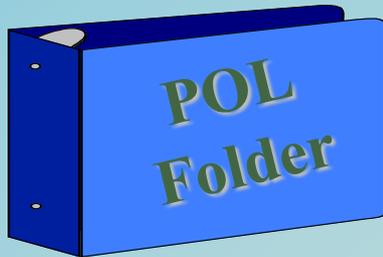
If all vehicles and generators are deployed and there is no need to accumulate POL products, close the POL accumulation point.

Submit a POL Accumulation Point closure memo signed by the Commander and EQO to the Environmental Division.

Empty the Used Oil and Used Antifreeze drums. Turn in the drums and SCU if not needed.

Moving to a new location?

- Keep the poster, SCU and empty accumulation containers.
- Submit a POL Accumulation Point establishment memo and diagram for the new location.



**POL
Folder**

Site Certification and Admin

Commander/Director Memo
Site Specific Drawing
Weekly & Monthly Inspections

Monthly Inspection

RCRA USED OIL and RECYCLEABLE FUEL INSPECTION CHECKLIST USED ANTIFREEZE INSPECTION CHECKLIST

UNIT: _____

INSPECTOR: SSG Neville M. Watkins
Daniel N. Hixson
John E. Tuttle

POL ONSITE: *USED OIL* _____ *USED ANTIFREEZE* _____
RECYCLABLE FUEL _____

INSPECTOR'S SIGNATURE _____

INSPECTION DATE: _____

PHONE: 270-798-9763 / 270-798-9105

BLDG. #: _____

NEXT EQO CLASS: _____

RCRA COMPLIANCE	YES	NO	REMARKS / CORRECTIVE ACTIONS
Containers stored in secondary containment unit (SCU) preventing entry into the environment and responses to releases [40 CFR 279.22(d)].			TT01 CM04
Container / tank labeled or marked properly, "used oil", "recyclable fuel," [40 CFR 279.22(c)(1)] and "used antifreeze."			TT01 CM04
Container / tank closed except when adding or removing POL ensures no release to the environment [40 CFR 279.22(d)].			Bung loose or missing: YES NO TT01 CM04
Container / tank condition: in good condition (no severe rusting, apparent structural defects, or deterioration) [40 CFR 279.22(b)(1)].			TT01 CM04
Container / tank condition: not leaking (no visible leaks) [40 CFR 279.22(b)(2)].			TT01 CM04
Above ground / underground storage tank fill pipes marked / labeled "used oil" [40 CFR 279.22(c)(2)].			TT01 CM04
BMP / OSHA COMPLIANCE	YES	NO	REMARKS / CORRECTIVE ACTIONS
Has an EQO been assigned via orders to your unit? (Program BMP)			EQO Name / Phone: _____
Container / tank under control of the operator. (Program BMP)			
POL Poster on-site for training operators. (Program BMP)			
HELPFUL NUMBERS	UNIT / ACTIVITY SITE REPRESENTATIVE		
Environmental Training: Bob Fletcher, 798-9595 Command Safety: 798-6789/2327 Preventive Medicine: 798-8695 Haz Waste Program Manager: Bill Baggett, 798-9786 Haz Waste / POL Support: Dan Hixson, 798-9763 Special Duty NCO(s): 798-9783/9105	PRINTED NAME: _____ PHONE NUMBER: _____ SIGNATURE: _____		

**FOR USED OIL AND ANTIFREEZE PICK-UP, CALL 270-798-9790
RECYCLABLE FUEL (MOGAS, UNLEADED FUEL, AND COLEMAN FUEL) IS STORED IN
5 GALLON FUEL CANS AND TAKEN TO THE PPOC AT 2ND STREET AND WICKHAM.**

Emergency Procedures & Prevention

Fuel/POL Spills

This is an UNCONTROLLED DOCUMENT printed for reference only.
The controlled document is on-line on the Fort Campbell Internet under Directorate of Public Works, Environmental Division.
<http://www.campbell.army.mil/campbell/directorates/DPW/envdiv/Pages/default.aspx>

FUEL/ POL SPILLS

Reporting, Safety, Clean-Up

POSSIBLE AREAS OF CONCERN

Failure to properly clean up spills violates State and Federal regulations and causes concerns to human health and safety.

CHARACTERIZATION

Improperly discharged petroleum, oil, or lubricant (POL) products.

HANDLING PROCEDURES

Step 1 BE PREPARED

- Know response material locations
- Know response procedures

Step 2 BE SAFE

- Identify spilled substance / Read MSDS
- Use personal protective equipment if trained and be familiar with the spilled material.

Step 3 When to Call?

- Greater than 10 gallons
- Three (3) feet squared
- Enters any water source including lakes, rivers, streams, retention areas, or groundwater

Step 4 NOTIFY

- Tell your supervisor
- Fort Campbell Emergency Dispatch 911
- Range Control (if in Training Area) 798.3001
- SPCC/Storage Tank Program 798.9637/9601

Step 5 WHAT TO REPORT

- Location and address of release
- Name and phone number of POC
- Date and time of release
- Type and quantity of substance
- Cause and source of release

Step 6 STOP THE SOURCE

- Plug, roll, or right drums
- Use emergency shut-off devices

Spill Kit Materials



Step 7 PROTECT WATER

- Confine the spill with sandbags or booms
- Block access to storm water grates

Step 8 CLEAN UP

- Pump or sweep into a safe container

Step 9 DISPOSE

- Contain waste water or sweepings
- Call **PPOC** for proper disposal

Step 10 RESTOCK AND REVIEW

- Replace other materials and equipment
- Review the incident for lessons learned

GENERAL INFORMATION

Spills that occur off-post or on other installations should be reported to the unit chain of command and the local governmental agency. Additional spill assistance/guidance may also be obtained from the **Environmental Division Spill/Storage Tank Program**.

For Spills related to Hazardous Substances or other hazardous materials see protocol sheet A-43

>10 Gallons
or
3 ft²
or
Enters
Any
Water
Source

THANK YOU !



**Fort Campbell
Screaming Eagles**

Environmental Division POC's

Bill Baggett (Hazardous Waste Manager) 270-798-9786

John Tuttle (Training, Hazardous Waste Specialist) 270-798-9762

Chris Rasnic (Training, Hazardous Waste Specialist) 270-798-9773

Location: Bldg 5134, 3rd & Wickham Ave