



2019 Hazardous Waste Training



FINAL EXERCISE

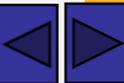
WILL BE



CHEMICAL STORAGE LOCKERS



- ❖ Outside sign correct.
- ❖ No compressed gases.
- ❖ No expired chemicals or damaged aerosol cans.
- ❖ No rags or excess paper.
- ❖ All chemicals labeled.
- ❖ All lids secure.
- ❖ All chemicals upright.
- ❖ All compatible chemicals.
- ❖ Three point closing.



HMMS



Return the Sticker



Return the Hazardous Material (HM) inventory sticker when your container is empty!



- Scan and email to WFF-DL-HMMS@mail.nasa.gov
- Or mail to: Code 200C HMMS, F-19
- Or call x1760

Aerosol cans are an exception. All aerosol cans must be turned over to the Environmental Office for evaluation. To dispose of aerosol cans, call the Hazardous Waste Hotline at **x1718**. Do not remove the yellow sticker on aerosol cans.

Find Safety Data Sheets at <https://sites.wff.nasa.gov/code250/HMMS.html>

Details are in GPR 4100.2

An empty hazardous material container has less than 1 inch of residue after all hazardous material has been used through the normal process of pouring, scraping, or draining. To dispose of hazardous material containers with more than 1 inch of residue or to dispose of rags, tech wipes, brushes, or rollers which have come in contact with hazardous materials, contact the Hazardous Waste Hotline at **x1718**.

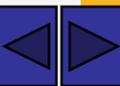
LABELING SECONDARY CHEMICAL CONTAINERS

- ❖ Name of Chemical..
- ❖ Warning Words (Flammable, Corrosive, etc).
- ❖ Label all containers In-Use rather than waste, if the chemical is intended to be used again.



RCRA

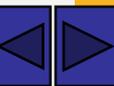
In 1976, Congress passed the Resource Conservation and Recovery Act or RCRA. This directed the Environmental Protection Agency (EPA) to develop and implement a program to protect human health and our environment from improper handling of hazardous waste and unsafe management practices.



SOLID WASTE

Any solid, liquid, or contained gaseous material that is no longer used, and is either recycled, thrown away, or stored until sufficient quantities are accumulated for treatment or disposal.

Hazardous wastes are currently regulated by both Federal and state environmental laws.



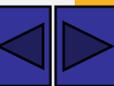
HAZARDOUS WASTE

A waste is classified as “Hazardous” in one of two ways:

- ❖ It is specifically listed as hazardous waste in EPA regulations (e.g. F-List, P-List, etc).

OR

- ❖ It exhibits any of the characteristics specified by EPA regulations as hazardous. (ignitable, corrosive, reactive, or toxic).



CHARACTERISTIC HAZARDOUS WASTE

D001 Ignitable (flashpoint < 140F)

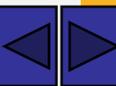
D002 Corrosive (pH \geq 12.5, pH \leq 2)

D003 Reactive (unstable, reacts violently with water, explosive)

D004 Arsenic

D005 Barium

D006 Cadmium (nickel cadmium batteries)



CHARACTERISTIC HAZARDOUS WASTE

D007 Chromium (zinc chromate spray paint)

D008 Lead (tin lead solder scraps)

D009 Mercury (broken thermometers)

D011 Silver (x-rays)

D018 Benzene (gasoline fuel filters)

D035 Methyl ethyl ketone (paint thinner)

D039 Tetrachloroethylene



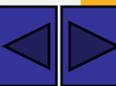
LISTED HAZARDOUS WASTE

Example -Hazardous waste from non-specific sources

F003 The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol;

all spent solvents mixtures/blends containing, before use, only the above spent non-halogenated solvents;

and all spent solvent mixtures/blends containing, before use, one or more of the above non- halogenated solvents, and a total of ten percent of F001, F002, F004, and F005.



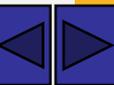
LISTED HAZARDOUS WASTE

Acute

- ❖ P001 – Warfarin (rat poison)
- ❖ P015 – Beryllium
- ❖ P042 - Epinephrine

Commercial Chemical Products

- ❖ U165 - Naptha
- ❖ U220 – Toluene
- ❖ U080 – Methylene Chloride

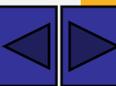


IDENTIFY HAZARDOUS WASTE



- ❖ Identification
- ❖ Hazardous Ingredients and Components
- ❖ Physical & Chemical Characteristics
- ❖ Fire & Explosion Hazards
- ❖ Reactivity Data
- ❖ Health Hazard Data
- ❖ Spill/Leak Procedures
- ❖ Special Protection
- ❖ Special Precautions

<https://code200-external.gsfc.nasa.gov/250-wff/program-areas-hazardous-material-management-system>



HMMS SDS

Suggested Sites TOMS viewer

Click the arrow beside the first blank and select **Item Name** from the drop-down menu.

Click the plus sign to add another search line.



Search

?

ALL of the following criteria are true

ANY of the following criteria are true

ACTIVE

ITEM NAME CONTAINS

Flash Point Comments

Flash Point Method

Flash Point Temperature

GHS Hazard Category

GHS Hazard Class

Grams per Liter

Group Code

Hazard Code

Item Name

Clear Search

Click the arrow beside the next blank and select "Trade Name".



Search

?

ALL of the following criteria are true

ANY of the following criteria are true

ACTIVE

ITEM NAME CONTAINS

TRADE NAME CONTAINS

SDS Source

SKU Nr

Scale

Site Usage

Specific Gravity

Specification Number

State

Temperature Code

Trade Name

Clear Search

Now fill in both blank spots with the name and click "Search".

IS THIS A HAZARDOUS WASTE?

**SHERWIN-WILLIAMS CO -- G2 AEROSOL SPRAY LINE-2
(PAINTS), G2A156 DARK GRAY -- 8010-00N070920**

===== Fire Fighting Measures

Flash Point:<21F,<-6C

Lower Limits:0.5%

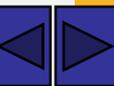
Upper Limits:12.0% Extinguishing

Media:USE CARBON DIOXIDE, DRY CHEMICAL, FOAM.

**Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA
& FULL PROT EQUIP .**

**WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED,
FOG NOZZ ARE PREF. WATER MAY BE USED TO COOL (SUP
DAT)**

**Unusual Fire/Explosion Hazard:KEEP CONTRS TIGHTLY CLSD.
ISOLATE FROM HEAT, ELEC EQUIP, SPARKS & OPEN FLAME.
CLSD CONTRS MAY EXPLODE WHEN EXPOSED TO
EXTREME HEAT.APPLICATION TO HOT (SUP DAT)**

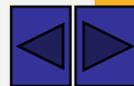


LABEL HAZARDOUS WASTE

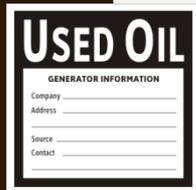
HW labels
must:



- ❖ Identify or Name the Chemical,
- ❖ Warning words which identify the hazard
- ❖ Include the words: “Hazardous Waste,” and
- ❖ Not dated unless 55G or 1 qt acute hazardous waste.



LABEL REGULATED WASTE



Petroleum products

- ❖ Label with the words “Used Oil.”



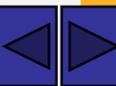
Universal waste (fluorescent lamps, thermostats, batteries)

- ❖ Label with the words “Universal waste lamps, batteries, etc.” and start date. (Don’t scratch out dates)



Other nonhazardous waste

- ❖ Label with container contents.



UNIVERSAL WASTE REMINDER SIGNS

**UNIVERSAL
WASTE**

SHIPPER _____

ADDRESS _____

CITY, STATE, ZIP _____

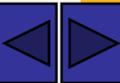
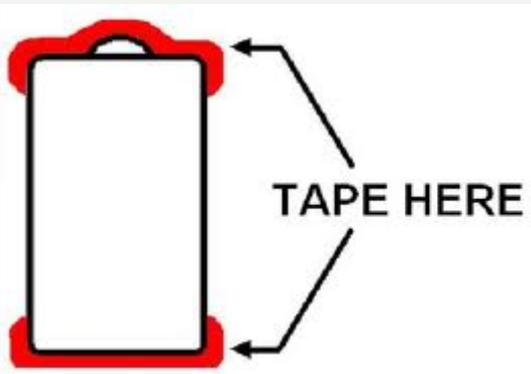
CONTENTS _____ Batteries

ACCUMULATION START DATE _____ 3/1/2019

- ✓ Date the label when the first battery is added to the container.
- ✓ **Check the date.**
- ✓ Call 1718 if the date is 9 months old.
- ✓ Keep the container closed.

UNIVERSAL WASTE BATTERIES

Please **TAPE** contact ends of Lead acid, Nickel Cadmium, Nickel Metal Hydride, Lithium, Silver, Mercury, etc.

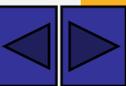


SAA



The Satellite Accumulation Area (SAA) is:

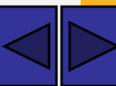
- ❖ Designated HW storage point (Environmental Office),
- ❖ Near the point-of-generation (work area),
- ❖ A centralized storage area for one or many points-of-generation
- ❖ Under the control of the operator,
- ❖ In compliance with regulatory requirements, and
- ❖ Managed by a designated point-of-contact who is responsible for upholding and enforcing all requirements.



UNDER THE CONTROL OF THE OPERATOR



- ❖ Operator controls access to SAA by access card, key, or lock box
- ❖ Operator accumulates waste in a locked cabinet and controls access to the key (even if access to the room is not controlled)
- ❖ Operator is regularly in view of the SAA during the course of their job
- ❖ Operator is able to see if anyone enters or exits the SAA



DESIGNATED HW STORAGE POINT

- ❖ SAA are established in coordination with the Environmental Office
 - List
 - Map
- ❖ SAA POC are required to notify the Environmental Office before moving containers



SAA REQUIREMENTS

- ❖ Spill kit
- ❖ Emergency Communication
- ❖ Secondary Containment (liquids)



- ❖ Storage aids
- ❖ Sign with contact numbers
- ❖ Inspection sheet
- ❖ SDS

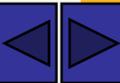
Satellite Accumulation Area Requirements

| | |
|--|---|
| PLEASE DO: | PLEASE DO NOT: |
| <ul style="list-style-type: none">• Keep Containers Closed and Upright at All Times• Use Compatible Containers• Label Containers• Identify Waste• Use Containers in Good Condition• Complete Inspection Sheet Monthly | <ul style="list-style-type: none">• Accumulate more than 55 Gallons of Hazardous Waste or 1 Quart Acute HW• Mix Wastes• Dilute Wastes• Add Accumulation Date |

Point of Contact: _____
Extension: _____

Emergency
Call 911 or X1333

Hazardous Waste Pickup
Call Hazwaste Hotline: X1718

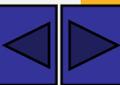


STORE HAZARDOUS WASTE

Containers must be :



- ❖ In good condition (no holes, dents),
- ❖ Within secondary containment (liquids),
- ❖ Compatible,
- ❖ Closed, wrench tight, upright,
- ❖ Sturdy, and with
- ❖ 3-5 inches of headspace.



HAZARDOUS WASTE QUANTITY

Maximum Quantity

- ❖ 55 Gallons of HW or 1 Quart of Acute HW (**P-list example P042 epinephrine**).

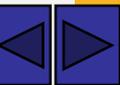
55

55

55

- ❖ 55 gallon limit includes:
 - ❖ All points of generation within the SAA.
 - ❖ All types of HW in the SAA.

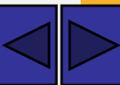
?? What are some items that are not counted as part of the 55 gallons??



TIME LIMITS



- ❖ 3 days for 55 total gallons (or 1 qt acute) Hazardous Waste.
- ❖ 1 year from date first Universal Waste item placed in the container.
- ❖ No time limit for nonhazardous waste, but full containers should be removed.

A small, low-resolution image of a calendar grid, showing a typical monthly layout with days of the week and dates.

CONTROL HAZARDOUS WASTE



- ❖ SAA is to be under the control of the operator of the process.
- ❖ POC is responsible for SAA.
- ❖ The SAA must be inspected at least monthly if it contains Hazardous Waste.



INSPECTING THE SAA



- ❖ All containers closed.
- ❖ Containers not leaking or bulging.
- ❖ All containers labeled.
- ❖ Less than 55 gallons hazardous waste.
- ❖ SAA sign and inspection sheet updated.
- ❖ Liquids stored on secondary containment.
- ❖ All people trained.
- ❖ Good Housekeeping.

TURN-IN PROCEDURES

- ❖ Fill out Hazardous Waste Disposal Inventory Form (GSFC 23-54).
- ❖ Call the HW Line at 1718.
- ❖ While awaiting pickup, keep chemicals:
 - Segregated,
 - Packaged to avoid breakage,
 - Liquids on secondary containment,
 - Labeled, and
 - Do not date the label unless 55G.



HAZARDOUS WASTE DISPOSAL INVENTORY FORM

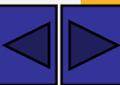
Hazardous Waste Disposal Inventory/Greenbelt/Wallops



| Generator Information | | | | | | | | | | | |
|--|---|---|---|------------|------|-----------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| Name: | | | | | | Date: | | | Phone: | | |
| Code: | | | Building: | | | Room: | | | | | |
| Waste Inventory | | | | | | | | | | | |
| Item | WASTE DESCRIPTION <i>Describe material to be collected by its specific chemical constituents or by trade name.</i> | WASTE ID OR CONTAINER # <i>(Provided by the Environmental Office).</i> | GENERATING PROCESS <i>Describe the work process that made the waste, e.g., expired shelf life, cleaning paint brushes.</i> | CONTAINERS | | | STATE | | | WASTE TRAIT | |
| | | | | No. | Size | Type | Gas | Liquid | Solid | Trait | Code |
| 1. | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | CA - Corrosive Acid (pH<2) |
| 2. | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | CB - Corrosive Base (pH>12.5) |
| 3. | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | F - Flammable (Flashpoint <140F) |
| 4. | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | NR - Non-Regulated |
| 5. | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Ox - Oxidizer |
| 6. | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Px - Peroxide |
| 7. | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | R - Reactive (H ₂ O, air or otherwise sensitive) |
| 8. | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | T - Toxic |
| 9. | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other (Specify) |
| 10. | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Generator Comments | | | | | | | | | | | |
| Have you received Resource Conservation and Recovery Act (RCRA) generator training within the last 12 months? | | | | | | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | |
| Have you made a good faith effort to minimize your waste generation by considering substitutes or alternatives? | | | | | | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | |
| Comments - Indicate special requirements (if any) for collection of the waste material, e.g., restricted access to an area, appointment needed, generator wishes to monitor collection, etc: | | | | | | | | | | | |
| Generator Certification | | | | | | | | | | | |
| <input type="checkbox"/> I hereby declare that the contents of this inventory are fully and accurately stated as described by their waste, process, and container parameters. | | | | | | | | | | | |
| Printed Name: | | | Signature: | | | Date: | | | | | |
| Date Received: | | | Date Collected: | | | Initials: | | | | | |

At Greenbelt, when ready for pickup, you may e-mail the completed form to gsfc-hazwaste@lists.nasa.gov, or fax it to 6-0368. Coordinate waste pickup by dialing 6-9233. At Wallops, when ready for pickup, fax completed form to x1819. Coordinate waste pickup by dialing x1718.

GSFC Form 23-54 (February 2012) Previous editions are obsolete.



MOSI TICKET

<https://mosi.ndc.nasa.gov/>

This U.S. Government computer is for authorized users only. By accessing this system you are consenting to complete monitoring with no expectation of privacy. Unauthorized access or use may subject you to disciplinary action and criminal prosecution.



**SUBMIT, APPROVE,
OR VIEW SERVICES**
CLICK HERE

Continue to Applications

[Submit suggestions, comments, concerns, or kudos](#)
[Download MOSI training](#)

Continue to report Emergency & Trouble Calls to: **Greenbelt x6-5555 Wallops x7-4357**

- Room temperature (too hot/cold)
- Repair bathroom fixtures/accessories
- Leaks/clogs (and other plumbing issues)
- Door/door hardware
- Electrical/power issues
- Light issues
- Alarms
- Fallen trees/limbs
- Fencing repairs
- Pot holes in road
- Exhaust fan issues
- Strange odor or noises
- Humidity issues

MOSI Service Requests

Quick Search: Go To:

Tip: for Approvals & Technical Specialists

[New Ticket](#) [Group Inbox](#) [Search Tickets](#)

| Ticket | Service | Title | Status | Due Date | Schedule Score | Processed |
|------------------------------|--------------------|-------|---------|----------|----------------|-----------|
| 2019-21899-0 | Visitor Badge | | Editing | | | |
| 2019-27440-0 | Visitor Badge | | Editing | | | |
| 2019-19050-0 | WFF Launch Support | | Editing | | | |

| Ticket | Service | Title |
|-----------------------------|-------------------------|--------------------------|
| 2019-9110-0 | Locksmith For Wallops | Building Key F160 |
| 2019-3344-0 | Key Request For Wallops | F-160 Key - Marga Morris |
| 2018-1384-0 | Key Request For Wallops | Dr. Vioffe |

| Ticket | Service | Title | Owner | Status | Copy |
|------------------------------|--------------------|---------------------|----------------|----------|------|
| 2019-10500-0 | WFF Launch Support | Fave - DOT Training | Marianne Simko | Editing | |
| 2019-14028-0 | Visitor Badge | | | Complete | |



MOSI Service Requests

Home → 2019-17094-0

Service: Wallops Waste Pickup

Owner: Marianne F. Simko (757.824.2127)

Status: Editing

Ticket Title: [Edit](#)

Service Information

Please attach a completed Hazardous Waste Disposal Inventory Form or Safety Data Sheet(s).
The Hazardous Waste Disposal Inventory Form is located in the [NASA Electronic Forms System \(NEFS\)](#).

Action

[Save Ticket](#) [Submit Ticket](#) [Print](#) [Cancel Ticket](#)

Requester [\[change\]](#)

Name: Marianne F. Simko
Code: 200 C
Location: Building F-160 Room: C135
Phone: 757 824 2127
Email: marianne.f.simko@nasa.gov

Point of Contact [\[change\]](#)

Name: Marianne F. Simko
Code: 200 C
Location: Building F-160 Room: C135
Phone: 757 824 2127
Email: marianne.f.simko@nasa.gov

Desired Due Date: At least 1 business days from submit date

Location of waste (building, room#):

Waste Description and Quantity:

Special Instruction:

- Choose 250 Medical and Environmental Tab
- Enter HW location and information
- Complete HWDI and attach

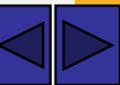
HW FLOW



Only HW in process of being generated shall be at the point of generation.

At the end of the shift or when a process is complete, waste containers should be returned to the SAA.

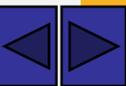
Chemicals which have been declared a waste should be kept in the SAA.



EMPTY CONTAINERS

Hazardous waste containers or liners are empty when:

- ❖ all wastes have been removed which can be removed, and
- ❖ no more than 1 inch of residue remains on the bottom, or
- ❖ no more than 3% by weight of total capacity remains (containers <110 gal).



AEROSOL CANS

Aerosol Can Disposal

The Environmental Office collects ALL AEROSOL CANS. No aerosol cans should be placed in the trash, even if they are believed to be empty.

If you need a container to collect empty and discarded aerosol cans, please call the Hazardous Waste Hotline at x1718.

If you infrequently empty a can, just call 1718, and we will pick up that can.



If you have questions, please call
Marianne Simko at x2127 or
Shane Whealton at x1090.



SOLDER SCRAPS ARE A HAZARDOUS WASTE

- ❖ Lead solder scraps, bits, and sponges are Hazardous Waste because of the lead found in the solder
- ❖ Every solder work station needs a properly labeled container to collect lead solder scraps, bits, wire pads, and sponges
 - This container must be kept closed.
 - **This container cannot be emptied into another container in the room.**
- ❖ Solder sponges should be moistened at your work station. Once a sponge has been used, it cannot be moistened by carrying it to the sink or by placing it in a bowl of water.
- ❖ Your solder work station is a SAA. The building, room number and POC are registered with the Environmental Office. If your work station is relocated please call the HW Hotline at X1718.



PAINT BOOTH SIGNS

Paint Booth Operators shall:

Paint Booth X-30

1. Clean spray guns into the approved container not into the booth filter media.
2. Transfer residue from cleaning spray guns into a Hazardous Waste labeled container and completely close the container.
3. Contact the Environmental Office for pick-up of hazardous waste as needed (extension 1718).
4. Record coating media (paint), thinner, and solvent use in the log book. This includes solvents used for cleaning equipment. Completely describe the products used by brand name, quantity, and unit of measure.
5. Maintain Safety Data Sheets, Certified Product Data Sheets, or other vendor information as approved by the Virginia Department of Environmental Quality showing the VOC content and solids content for all non-thinned coatings, thinners, and solvents used.
6. Limit coating media used to less than 346 gallons per year.
7. Limit coating media used to less than 3 pounds per hour and 15 pounds per day.
8. Ensure that the oil level in the paint booth manometer reads at least zero when not in use. If different, contact Marv Bunting (extension 2030).
9. Dispose of coating media, thinners, and solvents in a manner that minimizes emissions. These substances shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.
10. When the gauge indicates a pressure differential of greater than 1 inch, the filters should be replaced. Call extension 1718 to dispose of used filters. Used filters should remain at the paint booth until collected by Environmental.

Spray Gun Cleaning Container Sign

Clean spray guns into this container. Not into the filter media.

Pour the contents of this container into the labeled Hazardous Waste container after each cleaning.

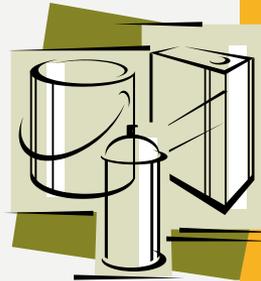
Be sure that the lid on the Hazardous Waste container is closed.

Call extension 1718 for pick up of Hazardous Waste.

TYPICAL AUDIT QUESTIONS

How do you use this chemical?

(Auditors are looking to see if you wipe the chemical on a rag or techwipe and what you do with the techwipe.)



When was the last time you used this chemical?

(Auditors are looking to see if this chemical should be considered a waste.)



Where do you put this shop towel when you are finished with it?

(Auditors are looking to make sure you put it in the HW container.)

What do you do with your fluorescent bulbs?

(Auditors are looking to make sure that you don't store them unlabeled in an open box somewhere)

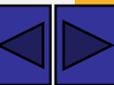


RECYCLING AT WFF

The following items are recycled at WFF as part of the single stream program:

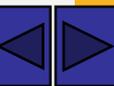
- ❖ Cardboard, newspapers, magazines, paperboard,
- ❖ White and colored paper,
- ❖ Aluminum and bi-metal cans, and
- ❖ #1 and #2 plastic bottles and glass bottles

Toner cartridges are also recycled by calling the Help Desk



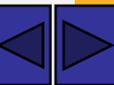
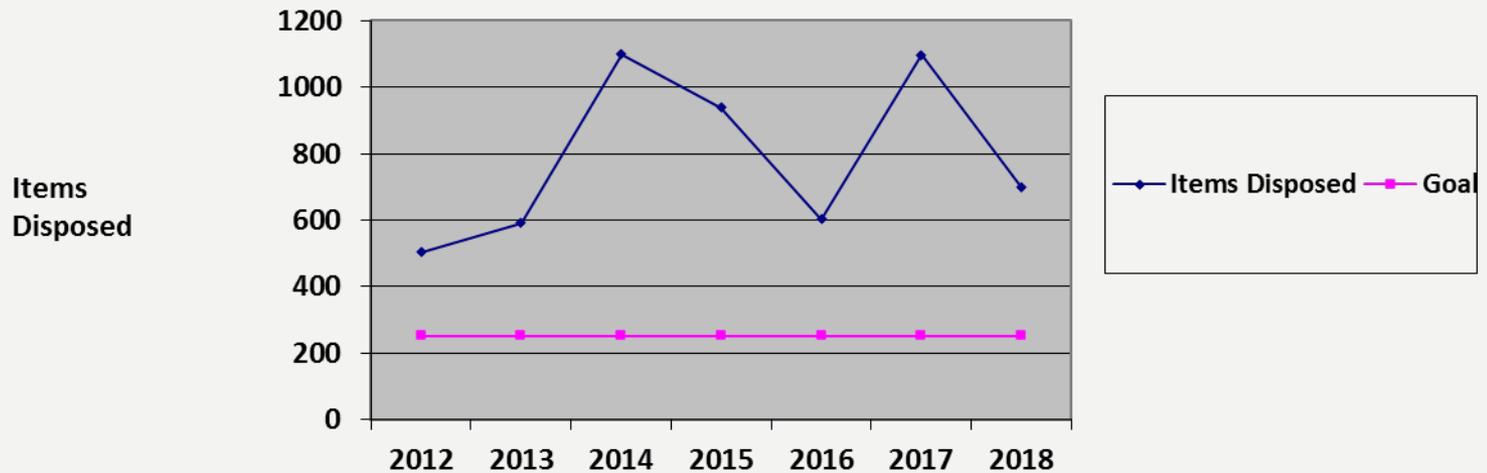
WASTE PREVENTION TIPS

- ❖ Reduce, Reuse, Recycle.
- ❖ Pursue environmentally friendly alternatives.
- ❖ Perform regular maintenance and housekeeping.
- ❖ Order what you need - avoid surplus inventory.
 - Turn-in unexpired chemicals for reuse.
- ❖ Purchase recycled products.



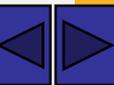
POLLUTION PREVENTION PROGRESS

Virgin Items Disposed Compared to 50 Percent Reduction Goal (2012 Baseline)



PHASE OUT THESE CHEMICALS

- ❖ Benzene
- ❖ Cadmium
- ❖ Carbon Tetrachloride
- ❖ Chloroform
- ❖ Chromium
- ❖ Cyanide
- ❖ Dichloromethane
- ❖ Lead
- ❖ Mercury
- ❖ MEK
- ❖ MIBK
- ❖ Nickel
- ❖ Tetrachloroethylene
- ❖ Toluene
- ❖ 1,1,1 Trichloroethane
- ❖ Trichloroethylene
- ❖ Xylene
- ❖ Methylene Chloride



REQUEST RECYCLED CONTENT ITEMS

Federal agencies or their contractors that buy any of the EPA designated products, must buy them with recycled content.

A complete list of designated products, recovered material content levels, and vendors can be found at

<https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>



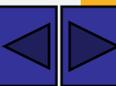
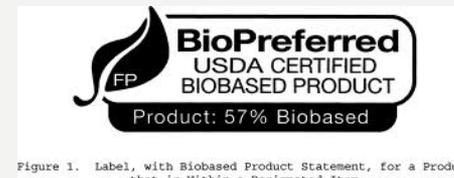
USE BIOPREFERRED PRODUCTS

USDA Designated Products as part of the Farm Act of 2002

<https://www.biopREFERRED.gov/BioPreferred/>



- ❖ Mobile equipment hydraulic fluids
- ❖ Urethane roof coatings
- ❖ Water tank coatings
- ❖ Diesel fuel additives
- ❖ Penetrating lubricants
- ❖ Bedding, bed linens, and towels



SPILL PROCEDURES

WFF has established procedures to ensure protection of human health and the environment.

❖ WFF's Integrated Contingency Plan (ICP)

❖ WFF ICP Training



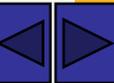
EMERGENCY PROCEDURES

Emergency Number:

911 or 757-824-1333

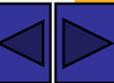


- ❖ Name and code of reporting party,
- ❖ Type/name of material spilled,
- ❖ Location of spill,
- ❖ Cause of spill,
- ❖ Estimated quantity and flow rate of spill,
- ❖ Time of spill.

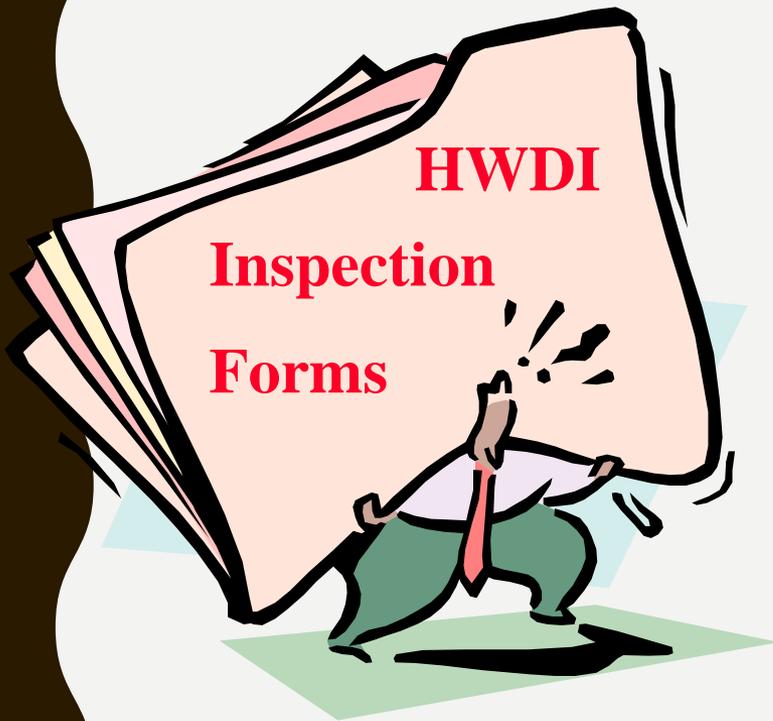


HURRICANE PROCEDURES

- WE WILL CHECK/CALL ALL SAA.
- WE WILL PICK UP HW.
- DO NOT BRING HW TO US.
- DO NOT DROP OFF HW OUTSIDE OF N-223, U-81, or B-29.
- DO NOT LEAVE A CONTAINER UNLABELED.



HW FORMS



- ❖ Environmental Office (x1718)
- ❖ GDMS (Forms 23-54 and 23-63)
<http://gdms.gsfc.nasa.gov/gdmsnew/home.jsp>
- ❖ Code 250 website
<https://code200-external.gsfc.nasa.gov/250-wff/forms>



CODE 250 WEBSITE

<https://code200-external.gsfc.nasa.gov/250-wff/>

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Personnel

Background

The Environmental Office manages any hazardous wastes, used oils, or nonhazardous wastes generated at the Wallops Flight Facility. Solid waste is the responsibility of the generator in coordination with the Facilities Management Branch. Property disposal is the responsibility of the generator and the Logistics Office.

Hazardous Waste Guidelines

Some general hazardous waste guidelines are listed below:

- Containers** - Generating activities must ensure that wastes are properly contained. Containers must be in good condition, suitable for the waste type, closed tightly, upright, sturdy, and inspected monthly (recorded on SWS monthly inspection sheets). The original container should be used if possible. Three inches of headspace should be left in each container.
- Labels** - Each waste container must be labeled with the identity or name of the chemical hazard, including containment, the generator, and the building number where the waste was generated. If the container holds a hazardous waste, the words "Hazardous Waste" should also be included on the label. All hazardous waste containers must be labeled and picked up by the Environmental Office within 5 days. Used oil containers must be labeled with the word "used" rather than "waste".
- Quantity Limit** - Generators must contact the Environmental Office, at extension 1716, upon accumulating 45 gallons each type of hazardous waste or 1 kilogram of acute hazardous waste.
- Inventory Form** - A completed hazardous waste disposal inventory form (OSF C 23 5404) must accompany each properly contained and labeled container. All containers awaiting disposal should be under the control of the generator, stored away from flame or other incompatible chemicals, and within secondary containment.
- RCRA Empty** - Hazardous waste containers or liners are empty when all wastes have been removed which can be removed and no more than 1 inch of residue remains on the bottom or no more than 3 percent by weight of total capacity remains (containers less than 110 gallons). Special requirements exist for containers which hold acute hazardous waste or compressed gas. Containers, which do not meet all of these requirements, must be disposed of as hazardous waste.

Points of Contact

- Emergencies: Wallops Fire Department at extension 1333



Hazardous Waste Guidelines

Drinking Water: Consumer Confidence Reports

| Title | Format | Date |
|---|--------|----------------|
| Wallops Environmental Management Manual (WFF-EM 001C) | PDF | September 2016 |
| Storm Water Pollution Prevention Plan (Internal-only) | PDF | April 2015 |
| Wallops Island Air Permit (Internal-only) | PDF | November 2010 |
| Main Base Air Permit (Internal-only) | PDF | January 2010 |
| Soil Croston Fact Sheet | PDF | January 2009 |

Drinking Water: Consumer Confidence Reports

| Title | Format | Date |
|--|--------|----------------|
| Drinking Water Lead and Copper Notice for the Main Base | PDF | September 2018 |
| Calendar Year 2017 Drinking Water Quality Report for the Main Base | PDF | June 2018 |
| Calendar Year 2016 Drinking Water Quality Report for the Main Base | PDF | July 2016 |
| Calendar Year 2015 Drinking Water Quality Report for the Main Base | PDF | July 2016 |
| Calendar Year 2014 Drinking Water Quality Report for the Main Base | PDF | July 2015 |
| Calendar Year 2013 Drinking Water Quality Report for the Main Base | PDF | July 2014 |
| Calendar Year 2012 Drinking Water Quality Report for the Main Base | PDF | June 2013 |
| Calendar Year 2011 Drinking Water Quality Report for the Main Base | PDF | June 2012 |
| Island Tribulation Report (TTM) Report | PDF | March 2012 |
| Calendar Year 2010 Drinking Water Quality Report for the Main Base | PDF | June 2011 |
| Calendar Year 2009 Drinking Water Quality Report for the Mainland and Island | PDF | June 2011 |
| Calendar Year 2008 Drinking Water Quality Report | PDF | June 2010 |
| Calendar Year 2007 Drinking Water Quality Report | PDF | June 2008 |
| Lead in Drinking Water: Informational Notice | PDF | February 2008 |
| 2008 Water Quality Report | PDF | November 2007 |

Environmental Planning and Impact Assessment (NEPA)

| Title | Format | Date |
|---|--------|------|
| Final Wallops Island Facility Off-Campus Waste Decommissioning Environmental Impact | | |

Documents

FOLLOW-UP



- ❖ Inspect SAA container integrity *monthly*.
- ❖ Think about areas where processes or chemicals can be changed to reduce waste.
- ❖ Call the Environmental Office to dispose of items which are no longer used or have expired (x1718).

QUESTIONS



FINAL EXERCISE

