

Welcome to Today's Training

Your participation is important and appreciated:

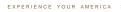
- Training is required by permits issued to the GWMP/CBP under the authority of the federal Clean Water Act.
- Conservation of our natural resources is a core mission of the National Park Service.
- Our economy and quality of life all depend on clean water and a healthy environment.

EXPERIENCE YOUR AMERICA

Three Key Take Aways!

At the end of this presentation, we hope to strengthen your understanding of:

- Your roles and responsibilities as a member of the pollution prevention team.
- Actions you can take to prevent pollution of our water resources.
- How to recognize and report illicit discharges of pollutants.





Stormwater Jeopardy

- Stormwater is defined as vater flowing over the land during and immediately a ter a rain storm or snow event.

 TRUE
- Stormwater from the Main' mance Complex is treated at a state-of-the-art wastewater treatment facility.

FALSE

- Water from GWMP and C'F' eventually flow to the Potomac River and the Chasapeake Bay.
 TRUE
- Sediment is a pollutant of pecific concern for the National Park Service.

TRUE



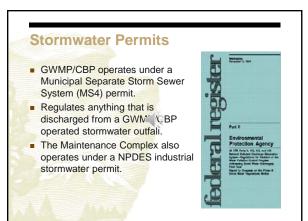


Stormwater Jeopardy

- Preventing one ton of sediment polls on can be worth \$80,000.
 - TRUE
- Pollution costs our region \$500 mill in lost economic activity each year.

 FALSE
- The most effective way to keep our new trams clean is to capture the pollution and treat it before it is discharged to a stream.
- Specific plans have been developed '> prevent pollution at the Maintenance Complex and Daing effeld Island. TRUE

Pollution Prevention Requirements







MS4 Permit Basics

- Prohibits all non-stormwater discharges unless explicitly authorized.
- Requires the development of an MS4 Program Plan.
- Establishes specific documentation and reporting requirements.
- Fine of up to \$32,500 per violation, per day!

What's in the MS4 Program Plan?

Six Minimum Control Measures

- 1. Public Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- 4. Construction Runoff Control
- 5. Post-Construction Runoff Control
- 6. Pollution Prevention Good Housekeeping Practices



Stormwater Pollution Prevention Plans (SWPPPs)

- Facility Description
- Potential Pollutant Sources
- Procedures and Control Measures
- Training, Inspections, and Record Keeping



Spill Prevention, Control, and Countermeasures Plan

- Description of Oil and Fuel Storage
- Spill and Rupture
 Prevention and Control
 Measures
- Training, Inspections, and Record Keeping
- Located at the Maintenance Complex



Potential Source of Pollution

Maintenance Complex and Daingerfield Island Vehicle and Equipment Oil Antifreeze Storage Grease Fuel **Equipment Fueling** Gasoline Diesel Cleansers **Hazardous Materials Storage** Paints Solvents Pesticides **Lead Acid Batteries** Sodium Chloride Salt Loading and Storage









Reduce the chance for contamination.

- Conduct maintenance indoors.
- Store materials under cover when at all possible.
- Keep liquid materials away from bay doors.
- Provide secondary containment for all containers.
- Ensure that caps and lids fit tight.
- Use drip pans for leaks and when changing fluids.

Be prepared for a leak or spill. Know where your spill kit and

- Know where your spill kit and safety equipment are located.
- Label all hazardous substance containers in plain English.
- Clear access to storage of eins and other containers.





Take ownership of the situation.

- Clean up spills and drips promptly.
- Sweep up used dry absorb daily and dispose of properly.
- Any spill requires attention. There is no minimum amount.





Special requirements for salt management.

- Regularly sweep salt and sand into the covered structure after transfers.
- Clean up any spills that new occur during transfer of salt to the brine-making area.
- Cover the stormwater inlet when brine transfers are made from the mixer to the spray trucks.





Most importantly, be observant.

- Observe tanks and drums for leaks and corrosion.
- Inspect equipment for signs of wear, excessive noise, vibration, etc.
- Look for unusual staining.
- Investigate and report unusual odors.
- Make sure all valves are in proper position.
- Check for torn bags or bags exposed to rainwater.
- Ensure used absorbents are cleaned up.
- Pick up trash and debris.





Before you leave...

- Check the weather.
- Bring a portable spill kit.
- Bring brooms and other equipment to clean up loc materials.
- Bring a tarp to cover stockpiled materials.
- Ask, do I really need it at the site?



At the site...

- Employ inlet protection if working near a storm drain.
- Conduct routine site inspections to observe any problems.
- Broom sweep or vacuum surfaces frequently.
- If it is necessary to hose or blow materials, direct them toward a grassy area.
- Materials (including millings and paint chips) must be collected and disposed of properly.





Pesticides and Herbicides

- Staff and contractors MUST be properly state certified.
- Use method least likely to result in pollution.
- Limit spraying to the problem area.
- Do not apply if windy.
- No spraying within 50 feet (or more if possible) of a water feature.



Fertilizers

- Apply fertilizers only if necessary.
- Adhere to the manufacturer's recommended application rates.
- If an area is greater than sea acre, STOP! A nutrient management plan is required.



Mowing

- Direct clippings away from impervious areas when possible.
- Never purposefully blow or dump clippings into storm drain inlets.



Sand, Dirt, and Gravel

- Minimize the amount and time of storage.
- Store under cover when possible.
- Sweep area around the pie frequently.
- Locate piles away from inlets.
- Provide inlet protection.



Liquid Storage

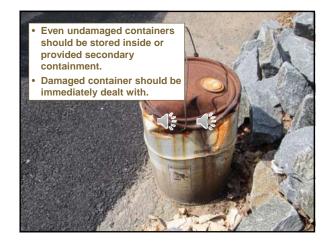
- Place containers on a paved surface.
- Place away from storm drain inlet.
- Ensure that the container are away from active vehicula. Traffic.
- Keep a spill kit in close proximity.

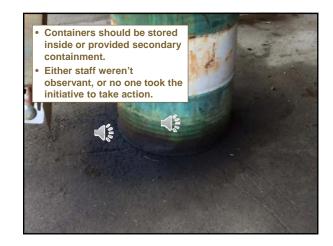










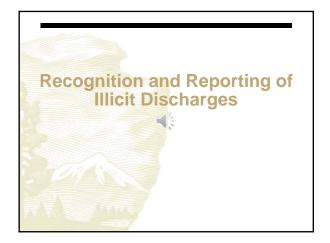












What is allowed?

- Water line flushing
- Landscape irrigation
- Discharges of potable water
- Foundation and footing datas
- Air conditioning condensation
- Water from crawl space pumps
- Individual residential car washing
- Dechlorinated swimming pool discharges
- Street wash water





What is an illicit discharge? Everything else that is not covered by a separate state or federal permit.

Signs of an Illicit Discharge

Some illicit discharges are obvious - but not always!

- The key is to be observant.
- Is the water discolored, sudsy, or oily?
- Is there an unusual odor
 - Petroleum?
 - Rotten Eggs?
 - Sewage?
 - Rancid/sour?
 - Chlorine?
- Are there deposits or stains visible?





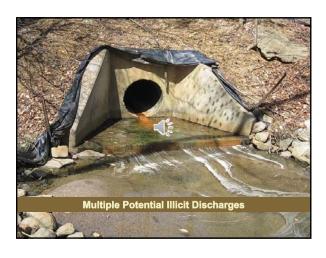


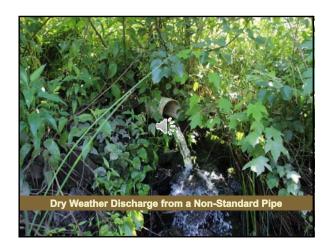












What if I find a potential illicit discharge?

- Observe where it is coming from.
- Take photos.
- Capture a sample (if safe).
- Report the discharge im stiately to the appropriate personnel.
- All illicit discharges must be logged and annually reported to state regulators.



