



CLEAN WATER
Starts Here
Fort Jackson Storm Water Management

STORM WATER
POLLUTION PREVENTION





Some river! Chocolate-brown, oily, bubbling with subsurface gases, it oozes rather than flows. "Anyone who falls into the Cuyahoga does not drown," Cleveland's citizens joke grimly. "He decays."
Time Magazine, August 1969

Clean Water Act (1972)

- **Primary federal law governing water quality**
 - **Established National Pollutant Discharge Elimination System (NPDES) which regulates:**
 - **Industrial Facilities**
 - **Municipal Governments (including military installations)**
 - **Some agricultural facilities**

Water Quality Act (1987)

- **Federal law requiring states to regulate stormwater runoff and prepare nonpoint source management programs**
- **Regulated by the South Carolina Department of Health and Environmental Control (SCDHEC)**
 - **Industrial Sites**
 - **Municipal Separate Storm Sewer Systems (MS4s)**
 - **Construction Sites**

The stormwater regulations reduce the amount of pollutants that enter streams and lakes through stormwater runoff



What is Stormwater Runoff?

“Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks and streets prevent stormwater from naturally soaking into the ground.”

Why is stormwater runoff a problem?

“Stormwater can pick up debris, chemicals, dirt and other pollutants and flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we used for swimming, fishing and providing drinking water.”



Storm Drains lead to ponds, lakes, or creeks - not to sanitary sewers. Do not pour anything into a storm drain.

Curb Inlets



Drop Inlets



Yard/Grate Inlets



The Types and Effects of Pollution

Sediment – Clouds water and makes it difficult or impossible for aquatic plants to grow. Typically dirt or sand from:

- Construction Sites
- Rifle Ranges
- Any areas with no ground cover

Excess Nutrients – Causes algae blooms. When algae dies it sinks to the bottom and decomposes causing oxygen to be removed from the water. Low dissolved oxygen levels are harmful to fish and other aquatic organisms.

- Animal Wastes
- Fertilizers

The Types and Effects of Pollution

Debris –can choke, suffocate, or disable aquatic life.

- Plastic bags
- Six-pack rings
- Bottles
- Cigarette butts

Bacteria and other pathogens – Wash into swimming areas and cause health hazards. This can lead to beach closures.

- Sewer systems
- Pet/Wildlife Waste

The Types and Effects of Pollution

Household Hazardous Wastes – These substances (and others) can poison or contaminate aquatic life. Land animals and people can become sick from eating diseased or contaminated fish and shellfish or drinking polluted water.

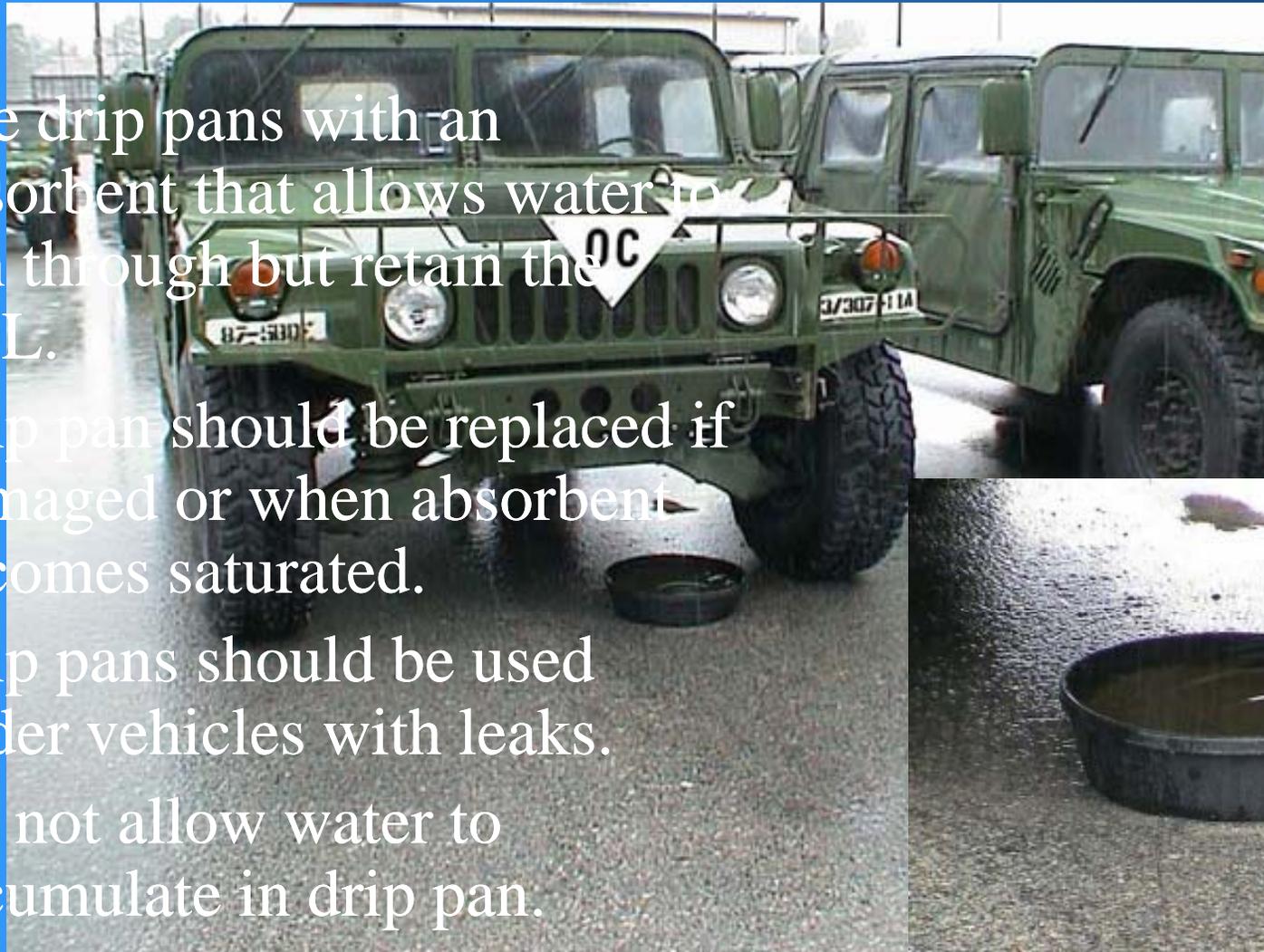
- Insecticides
- Pesticides
- Paints, Solvents
- POLs
- Cleaning Chemicals

Potential Stormwater Pollution Sources at Fort Jackson



Potential Stormwater Pollution Sources at Fort Jackson

- Use drip pans with an absorbent that allows water to run through but retain the POL.
- Drip pan should be replaced if damaged or when absorbent becomes saturated.
- Drip pans should be used under vehicles with leaks.
- Do not allow water to accumulate in drip pan.



Potential Stormwater Pollution Sources at Fort Jackson

Problems?

- Tank is open
- No secondary containment
- No barriers to prevent something from running into it
- Spill Kit?









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Potential Stormwater Pollution Sources at Fort Jackson

Problems?

- Clean up after your pets!



Significant Spills and Leaks

Report and document significant spills and leaks:

In excess of 5 gallons of a hazardous material OR

Any amount of a spill that

- Enters a storm drain system

- Leaves a facility boundary

- Enters a surface water

- Occurs outside during a rainfall event

REPORT TO THE FIRE DEPARTMENT!!



Report Sewer Leaks and Overflows

– Service Order Desk

- 751-7684

- 751-7685

– The service order desk will notify PSUS.





Fort Jackson Storm Water Management

Report Illicit Discharges!



**Report any illegal discharges to the storm drain system or sewer overflows to the Environmental Division.
Remember....Only rain down the storm drain!**

Phone:
(803) 751-9504

Email:
matthew.s.holstein.ctr@mail.mil



Report Illicit Discharges

- An illicit discharge is defined as: “any discharge to the storm drain system that is not composed entirely of storm water.”
- Report Illicit Discharges to the Environmental Division.

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