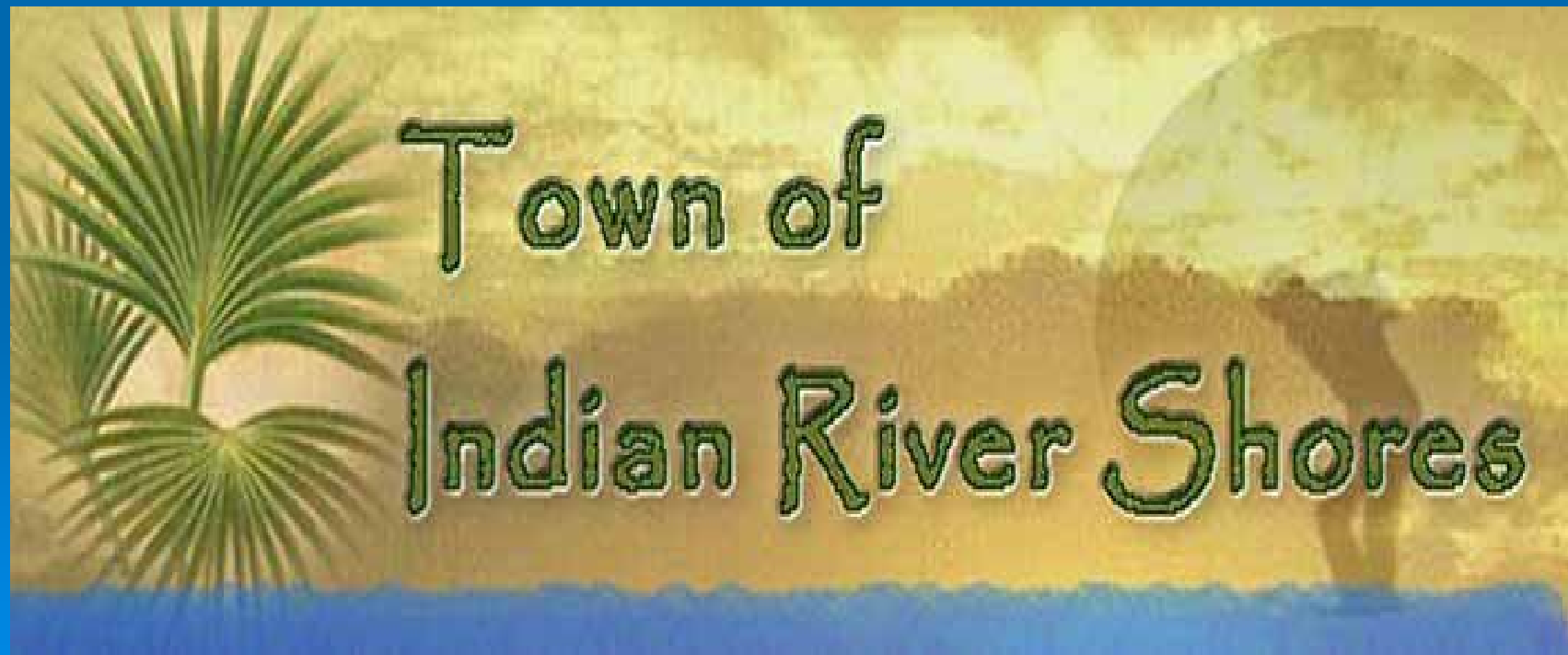


Stormwater Pollution Prevention Presentation

Town of Indian River Shores, Florida

May 27, 2010





NPDES Brief Overview

- What is NPDES?
- What is the purpose?
- Where did it come from?
- Why do we care about it?

What is NPDES?

- NPDES = National Pollutant Discharge Elimination System



Purpose

- The purpose of the NPDES program is to protect the Waters of the United States from pollution.



Where did it come from?

- The NPDES program was established by the EPA in 1972- Clean Water Act.
- Phase I Permitting 1990 (industrial use sites, large construction sites, large municipalities)
- Phase II Permitting **1999** (everyone else)
- EPA delegated their permitting authority to FDEP 2000

Why We Care?

- Federal mandated Program
- State required a MS4 Permit – Town has to comply
- Most of us live near drainage systems which eventually discharge into ponds, lakes, rivers and streams.
- Improving our waters benefit us health wise and cost wise.



Common Household Hazardous Waste

- Examples: Household cleaners, motor oil, anti-freeze, gasoline, herbicides, insecticides, pet shampoo, spot removers, oven cleaners, deodorizers, ammonia, paint, varnish, swimming pool chemicals, etc..
- Keep them out of the drainage systems.



Environmental Friendly Substitutes -Household Hazardous Waste-

- Chose those product carefully (less hazardous) and become less dependent-Use preferably environmental friendly substitute products.
- A label is generally added to Environmental friendly products.



Proper Disposal Methods

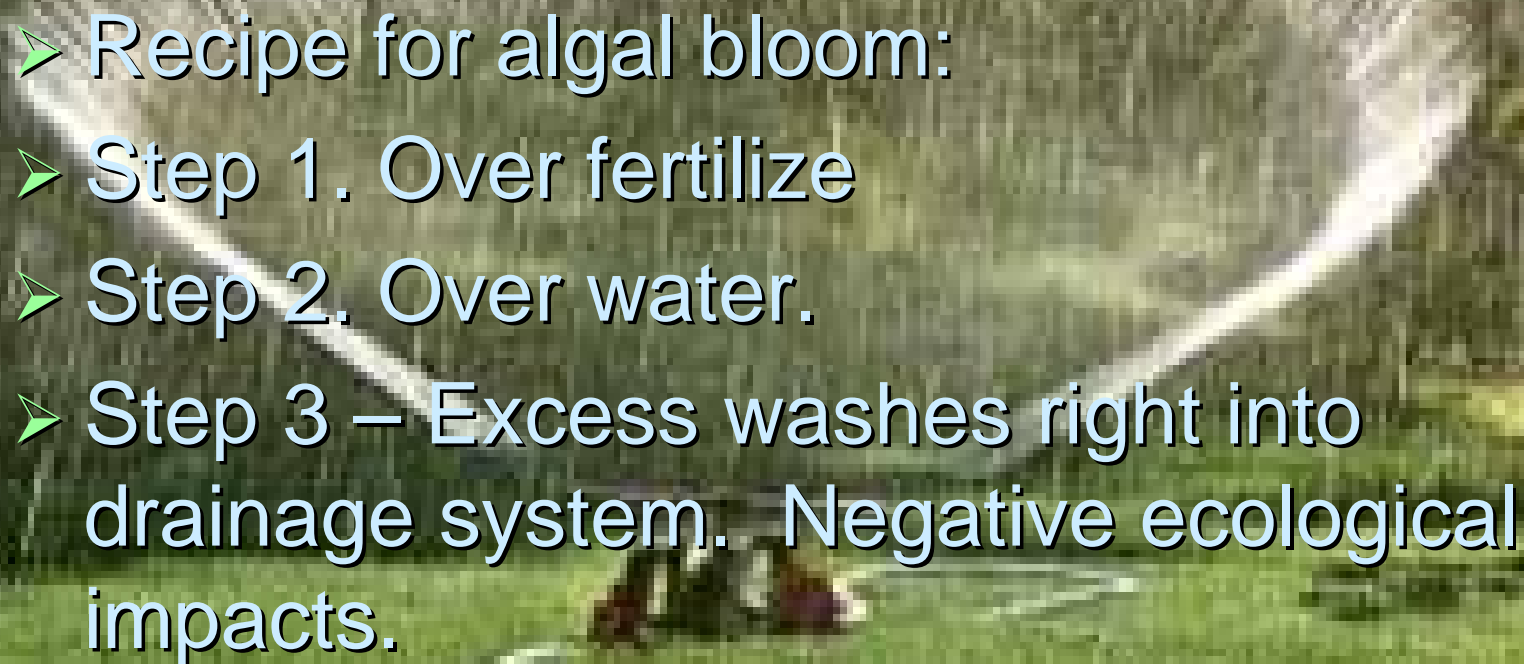
- Regular curbside pick up for non-hazardous material
- Hazardous material disposal special location- call FDEP or visit website at www.fdep.org
- Indian River Co. Solid Waste 772-770-5112
- Do not dispose any trash in storm drains

Avoiding Polluting our Water -Recycling-

- Recycle.
- Reducing volume of trash en route to landfills, reduces amount entering drainage infrastructure.
- Good common sense practice in general, minimize waste, etc.

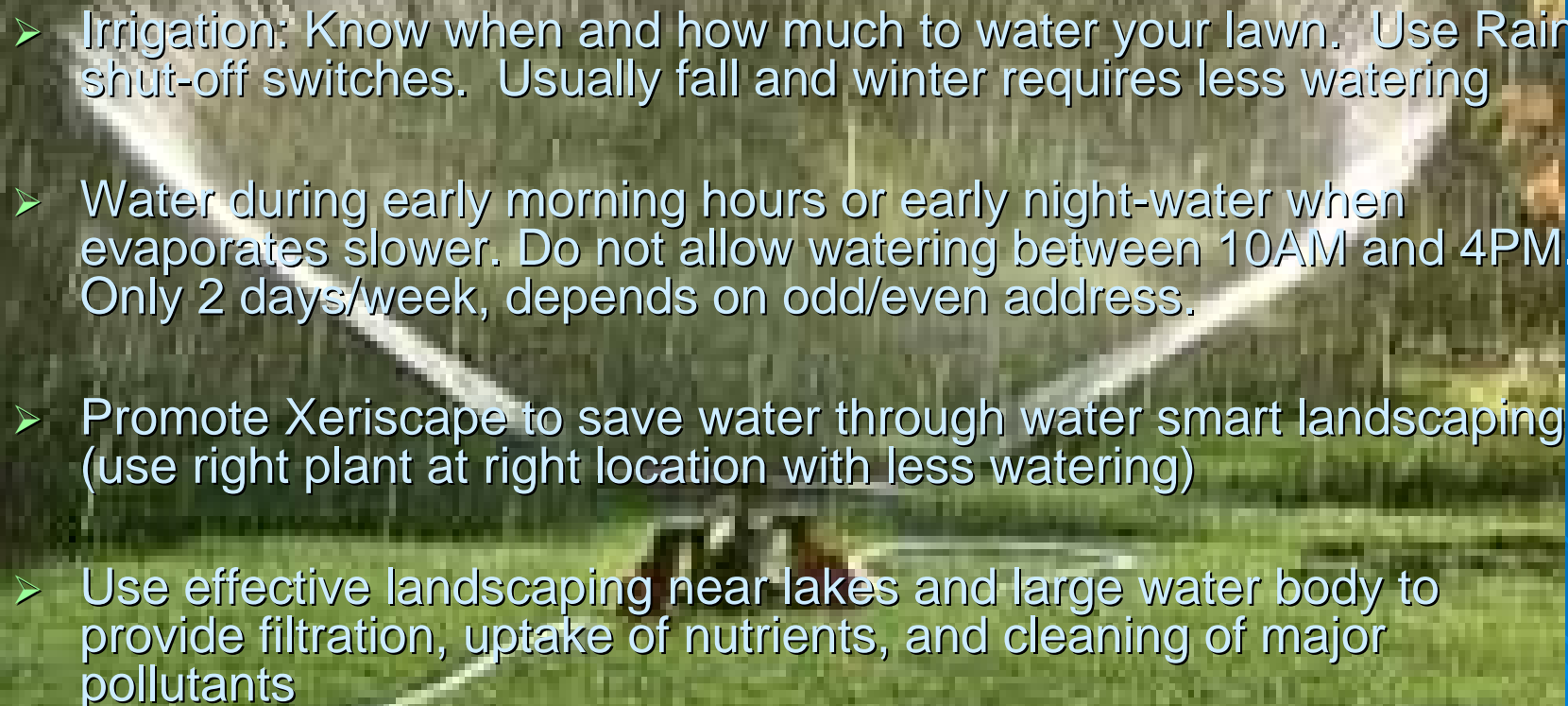


Avoiding Polluting our Water -Lawn and Garden-

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- Recipe for algal bloom:
 - Step 1. Over fertilize
 - Step 2. Over water.
 - Step 3 – Excess washes right into drainage system. Negative ecological impacts.

Avoiding Polluting our Water

-Lawn and Garden-

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- Irrigation: Know when and how much to water your lawn. Use Rain shut-off switches. Usually fall and winter requires less watering
 - Water during early morning hours or early night-water when evaporates slower. Do not allow watering between 10AM and 4PM. Only 2 days/week, depends on odd/even address.
 - Promote Xeriscape to save water through water smart landscaping (use right plant at right location with less watering)
 - Use effective landscaping near lakes and large water body to provide filtration, uptake of nutrients, and cleaning of major pollutants

Avoiding Polluting our Water -Lawn and Garden-

- Use environmental friendly fertilizers - safer for your children and the waterbodies.
- Minimize use of fertilizer –runoff of lawn

Avoiding Polluting our Water -Boat Owners-

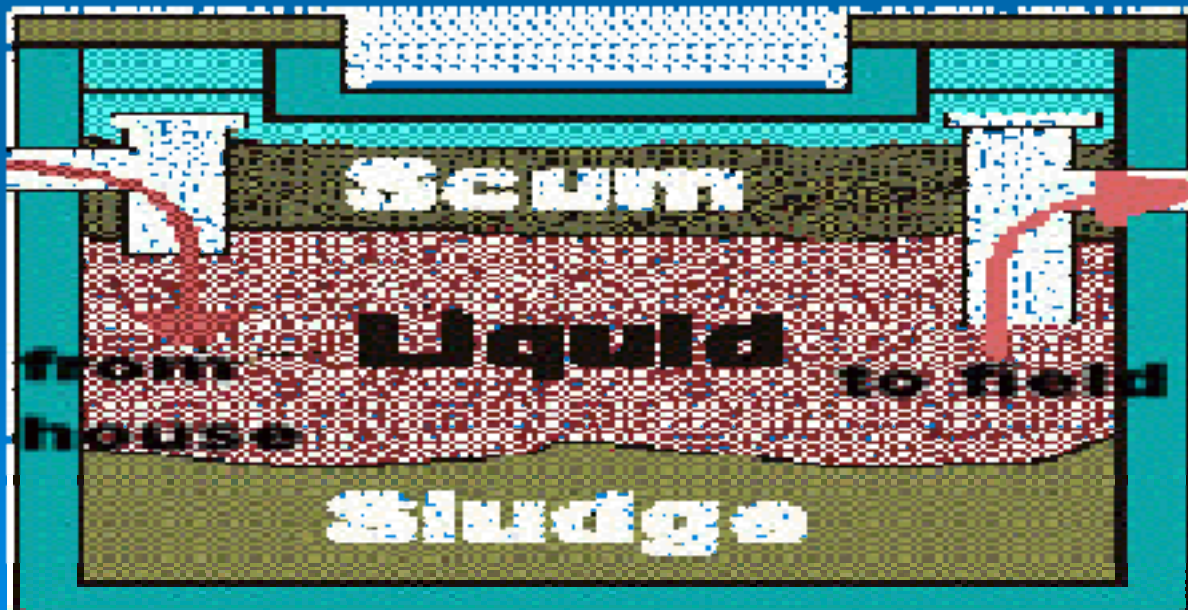
- Do not litter. Retrieve litter found in water.
- Use a bilge pillow or an oil absorbing sponge in your bilge to remove oil.
- Regularly check your engine to see if it is leaking gas or oil.
- Clean your boat to avoid toxic polishes or stain removers near the water lines.

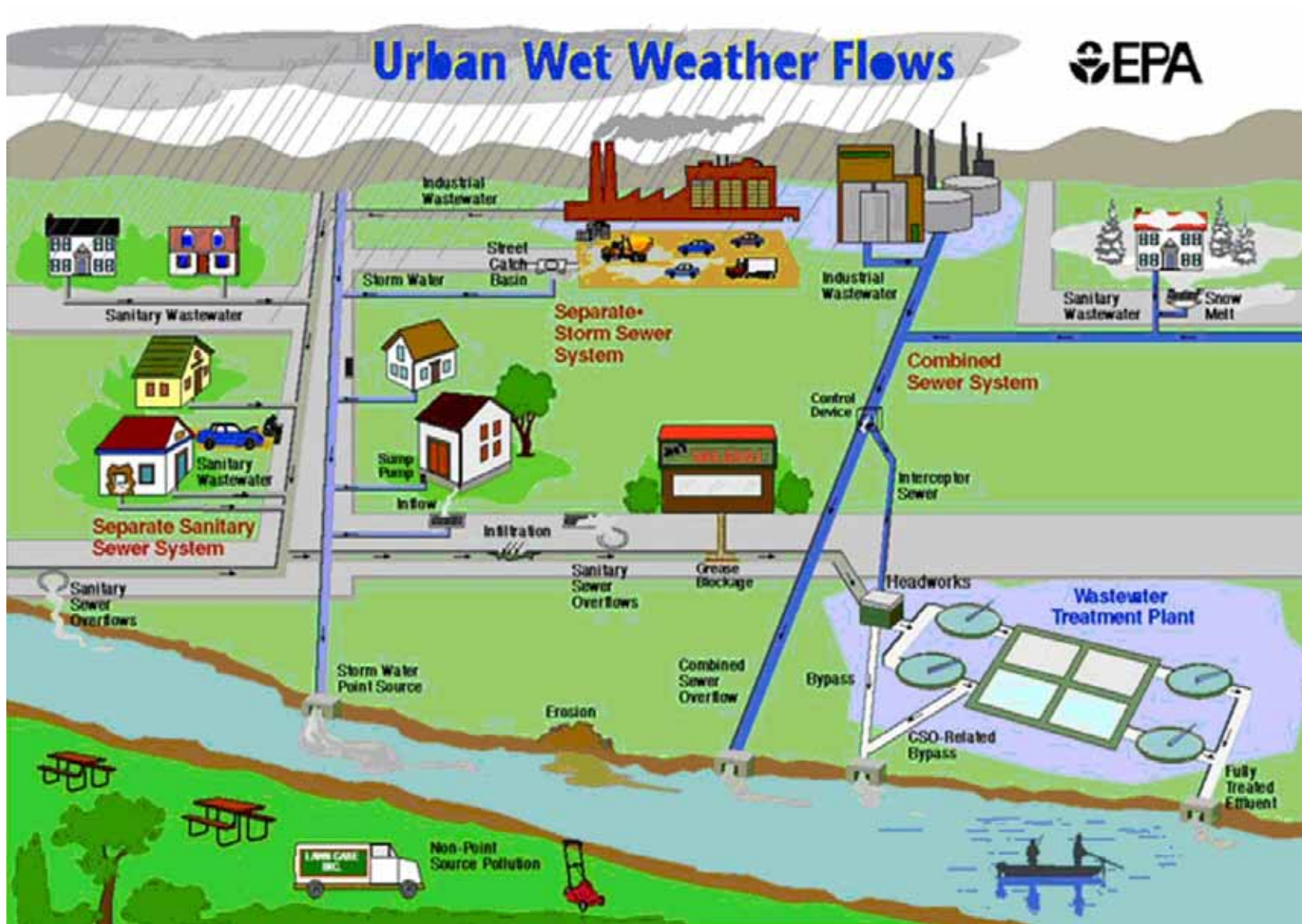


Avoiding Polluting our Water

-Septic System-

- Maintain your septic tank regularly, prevent leakage into the groundwater.
- EPA Recommend Inspect – 3yr; Pump – 5yr





Basic Overview of how stormwater enters natural systems

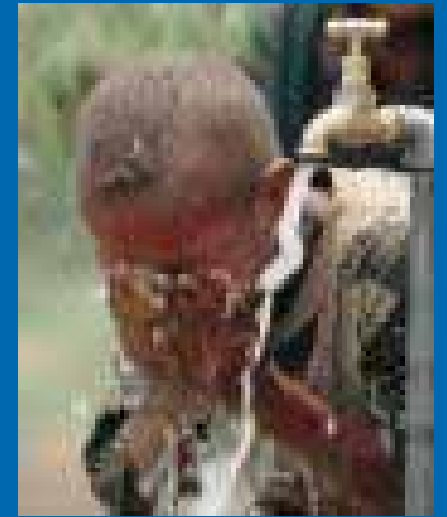
10 Action Items for Everyone

1. Use fertilizers sparingly.
2. NEVER DUMP ANYTHING DOWN STORM DRAINS.
3. Vegetate Bare Spots in Your Yard
4. Compost yard waste if possible.
5. Avoid excessive use of pesticides and fertilizers.
6. Direct roof downspouts away from paved surfaces.
7. Take car to car wash rather than driveway.
8. Check car for leaks and recycle motor oil.
9. Pick up after your pet.
10. Have your septic system regularly maintained.

SAVE OUR WATERS

A cleaner water, a safer water, a safer and cleaner world for our children...

Clean water is not available in many parts of the world. Don't take it for granted.



References

- FDEP <http://www.dep.state.fl.us/>
- SJRWMD <http://sjr.state.fl.us/>
- Town of Indian River Shores <http://www.indianrivershores-fl.gov/index.html>

- Handouts:
 - 10 Things You Can Do to Prevent Stormwater Pollution

- FDEP-NPDES contact: Eric Livingston – 850-245-8430