

# UNDERSTANDING OUR STORMWATER SYSTEM



THE TOWN OF  
INDIAN RIVER SHORES FLORIDA

NPDES MS4 STORMWATER PROGRAM

# PURPOSE

- EDUCATE STAFF AND THE PUBLIC ABOUT STORMWATER
- EXPLAIN HOW THE TOWN'S STORMWATER SYSTEM OPERATES
- DEMONSTRATE HOW TO IDENTIFY ILLICIT DISCHARGES

HELP THE TOWN COMPLY WITH ITS  
STORMWATER MANAGEMENT PERMIT  
REQUIREMENTS

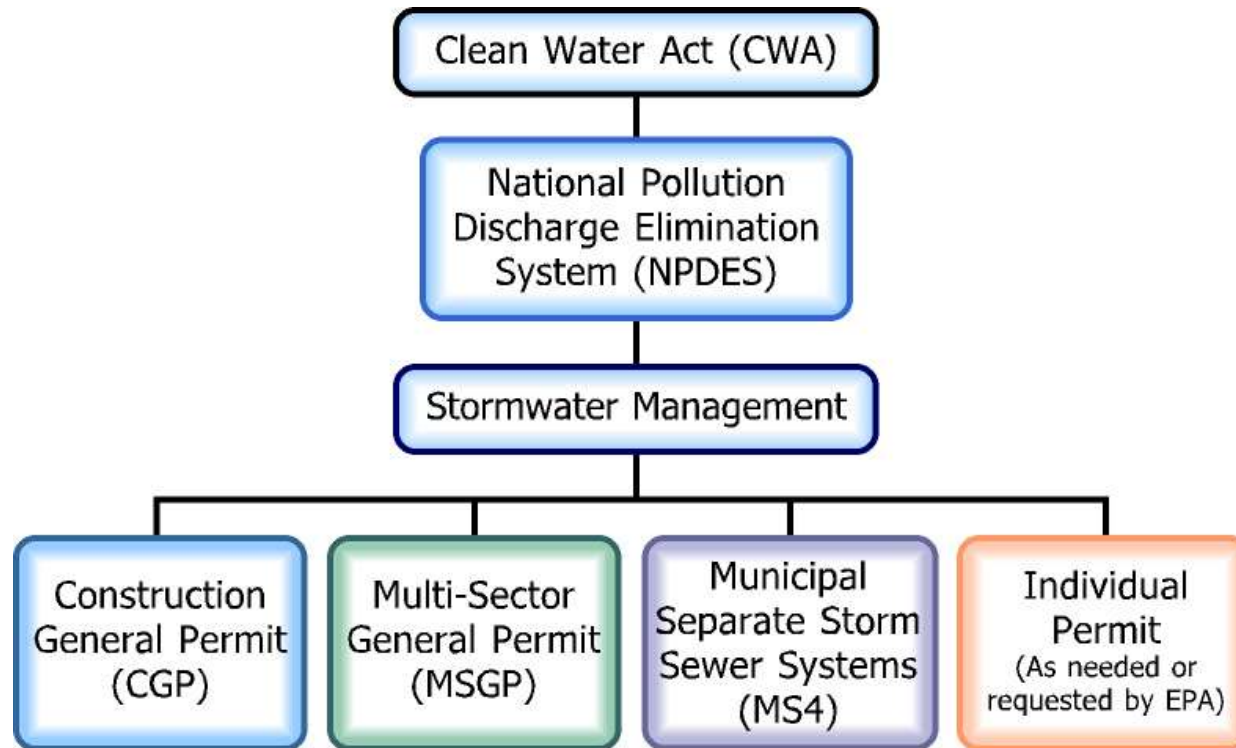
# Stormwater: Where It Flows, Everything Goes

When it rains, snows, or sleet, water hits hard surfaces and takes anything on that surface with it, through drains, pipes, and ditches to local rivers, lakes, and streams.



# Where Stormwater Flows, Everything Goes







# WHAT IS A NPDES MS4 PERMIT?

- NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM-  
NPDES
  - ✓ AIMS TO MINIMIZE STORMWATER POLLUTANTS
  - ✓ USES EDUCATION, RULES, POLICIES, AND INSPECTIONS
  - ✓ PROTECTS THE HEALTH OF OUR WATERS AND AIMS TO RESTORE IMPAIRED ONES
- REQUIRED BY FEDERAL AND STATE STATUTES
- MUNICIPAL SEPARATE STORMWATER SEWER SYSTEM-  
MS4

# WHAT IS MS4?

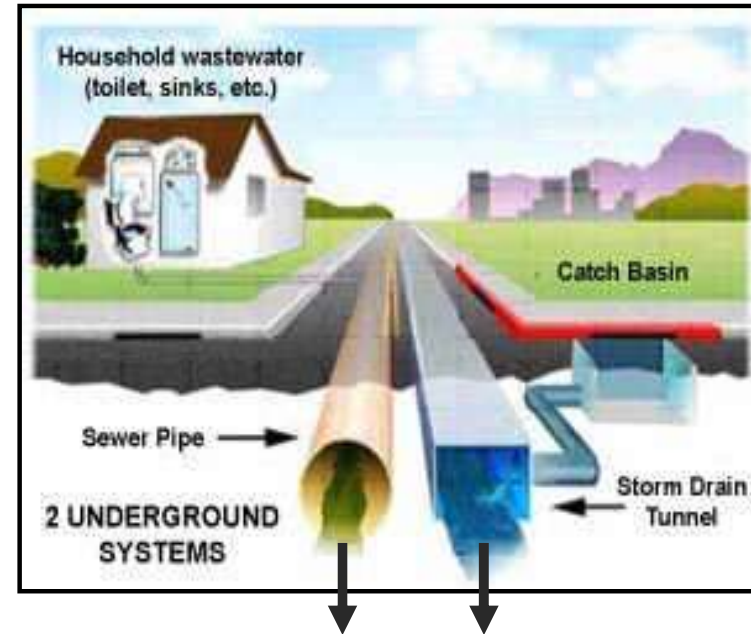
“MUNICIPAL SEPARATE STORM SEWER SYSTEM”

- IT IS YOUR “MASTER DRAINAGE SYSTEM”
- THE “SYSTEM” INCLUDES ROADWAY INLETS, CATCH BASINS, SWALES, PONDS, SOLID/PERFORATED PIPES, WELLS, ETC
- STORMWATER IS CONVEYED TO LAKES, RIVES, LAGOONS, OCEAN, UNDERGROUND
- TOWN HAS LEGAL AUTHORITY TO IMPLEMENT MS4



# HOW STORMWATER REACHES SURFACE WATER?

- SANITARY SEWER
- STORM SEWER



WASTEWATER PLANT

WATER BODIES

# **BEST MANAGEMENT PRACTICES- BMPs**

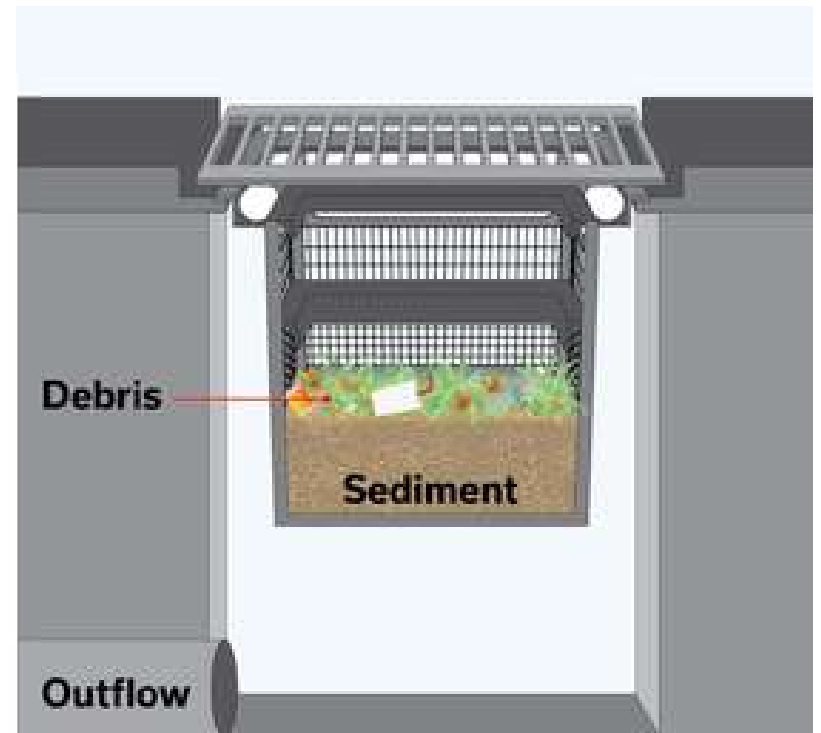
- THE IMPLEMENTATION OF “BEST MANAGEMENT PRACTICES” (BMPs) ARE IMPORTANT TO HELP CONTROL AND REDUCE POLLUTANTS FROM ENTERING OUR STORMWATER SYSTEM
- HERE ARE SOME OF THE BEST MANAGEMENT PRACTICES THE TOWN RELIES ON:



# FILTER BASKET

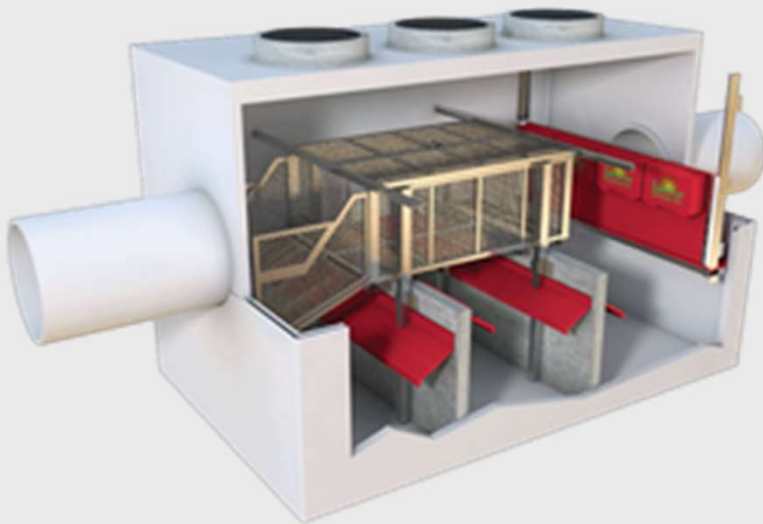


- THE TOWN HAS INSTALLED FILTER BASKETS ON THE INLET STRUCTURES ALONG OLD WINTER BEACH ROAD
- FILTER BASKETS COLLECT DEBRIS AND SEDIMENT AND PREVENT IT FROM ENTERING THE STORMWATER SYSTEM



# BAFFLE BOX

- THE TOWN INSTALLED A BAFFLE BOX AT INDIAN LANE

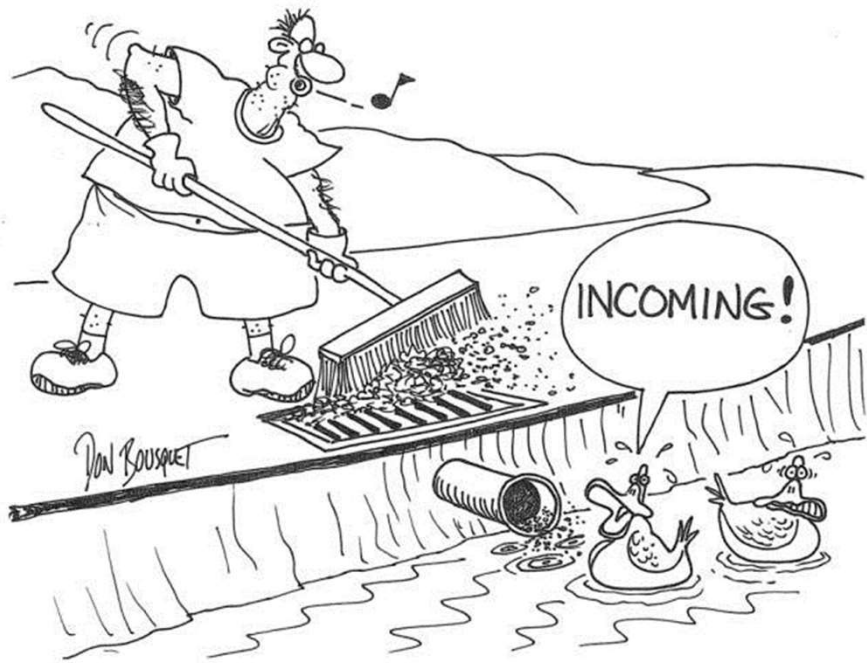




## **ILLICIT DISCHARGES ARE:**

- ANY DISCHARGES THAT ARE NOT COMPOSED ENTIRELY OF STORMWATER RUNOFF
- ILLICIT DISCHARGES MAY INCLUDE:
  - DELIBERATE DISCHARGING OR DUMPING
  - INCIDENTAL RUNOFF FROM SITES WITH CHEMICALS, RAW MATERIALS, OR BARE SOIL

# KEEP AN EYE OUT FOR ILLICIT DISCHARGES



# EXAMPLES OF ILLICIT DISCHARGES



GRASS  
CLIPPINGS

POOL  
CLEANER



# ILLICIT DISCHARGES

## PAINT



# ILLICIT DISCHARGES



# BE ON THE LOOK OUT



- FOAM, SCUM, OR SUDS NEAR OUTFALL PIPES
- OILY SHEET IN THE WATER, UNUSUAL ODOR/COLOR



## **HOW TO HELP:**

- REPORT DUMPING OR DEBRIS WITHIN THE STORMWATER SYSTEM TO THE TOWN'S BUILDING DEPARTMENT

**772-231-4453**

- REMIND YOUR CONTRACTORS-  
**"ONLY RAIN DOWN THE DRAIN"**