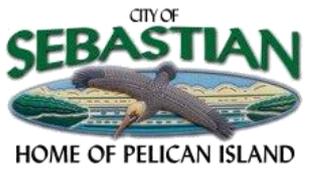




# SEBASTIAN STORM WATER 101



**SAVE  
THE  
SWALES**



**KEEP THE  
STORM  
DRAINS  
FREE FROM  
POLLUTANTS**



# Storm Water Challenges

## 1. Movement



## 2. Storage



## 3. Treatment

# How Does The City of Sebastian Address These Challenges?

Collier Creek Canal



Tulip Drive Drainage Pond



Constructs and maintain our extensive system of ditches, canals, pipes, and ponds.



Schumann Lake

# Stormwater Assets

The Stormwater Staff works hard all year to maintain the movement, storage, and treatment capacity of the stormwater system.



- CANALS: 9 miles
- CATCH BASINS/ CULVERT PIPES: 310
- DITCHES: 80 miles
- PONDS: 15
- BAFFLE BOXES: 7



ALSO: SEAWALLS, SWALES, ROAD CROSSING PIPES, DAMS, AND WEIRS

## IT'S A BIG JOB!

# Baffle Box Installations



Filter out sediments from storm water at Lagoon outfall locations along the Riverfront

# Baffle Box Installations



## 7 Baffle Boxes!

- Davis St.
- Cleveland St.
- Washington St
- Martin St
- Fisherman's Landing
- Coolidge St.
- Riverview Park
- Potomac Street (at Roseland Road)

Virtually every outfall from US1 directly to the Lagoon is protected by a baffle box, which is vacuumed out, and the filters are replaced by City Staff monthly.

# Storm Water Treatment Park



A series of interconnected ponds, dams, and weirs that provides storm water storage and treatment, while also serving as valuable wetland habitat.

# Storm Water Treatment Park



System is operated by a large pump which operates when the water level in the canal reaches a moderate elevation. The water is pumped through the entire system, filtering out sediments and nutrients before it re-enters the canal system.

**YES, THE PUMPS RUN REGULARLY!**

# Retention Ponds

These man-made ponds manage stormwater runoff, prevent flooding, and reduce down-stream erosion.



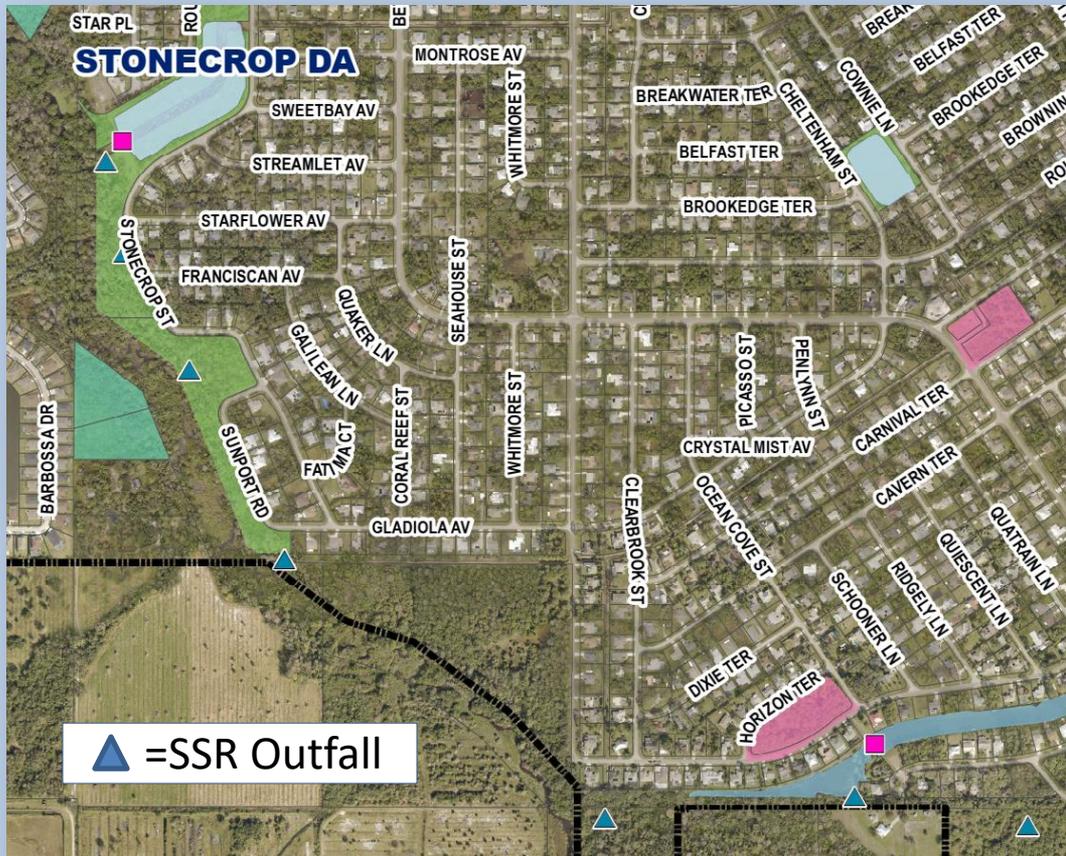
They are designed to allow relatively large flows of stormwater to enter, discharging through a control structure which functions only during very large storm events.

# Retention Ponds

These basins also improve water quality by retaining the runoff and allowing sediments, debris and other nutrients and pollutants to settle.



# San Sebastian River Outfalls



There are 9 outfalls from our stormwater system to the SSR. Most are minor pipes which only flow when the ditches reach high elevations.

## Thee Main SSR Outfalls:

- Twin Ditches
- Stonecrop
- Concha Dam

# ANY QUESTIONS ?

