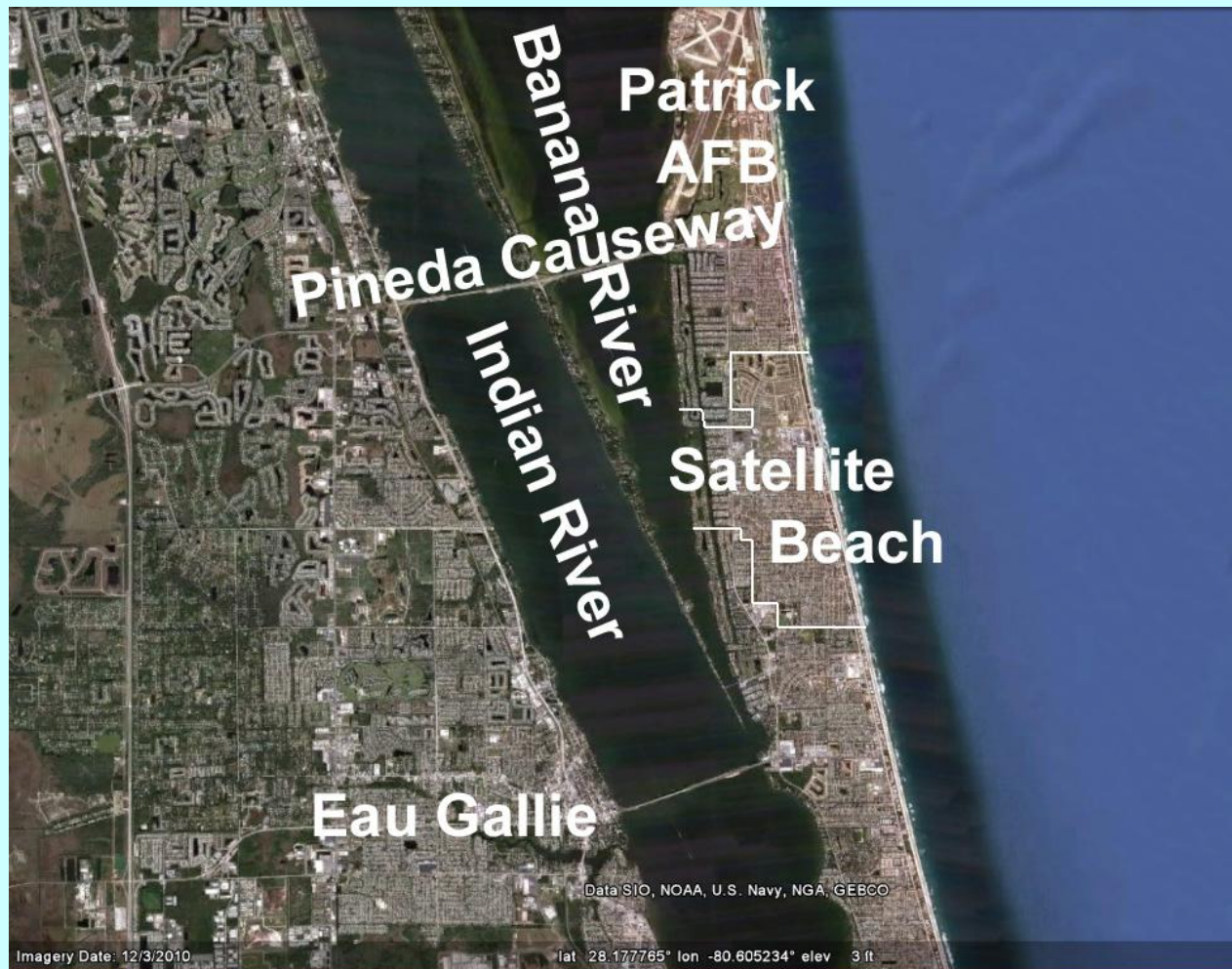


Muck Deposits In The Banana River South of Pineda Causeway

John Fergus

28 October 2011

Project Location



Area of Interest



Area: 1,988 acres

Navigation Chart



Mostly 2-3' deep
7-13' channel

Area Surveyed



Muck Deposits



In Survey Area

Area: 223 acres

Volume: 640k cu yds

In Satellite Beach

Volume: 180k cu yds

TP: 18,208 lbs

6 yrs @ 100% TMDL

Natural Clay Deposit



Satellite Beach Outfalls



All Satellite Beach
stormwater passes
over muck deposits

Conclusion

- Muck in S Banana River contains significant legacy load
 - For Satellite Beach, 6x annual TP TMDL
- At some level of treatment, muck will pollute outfall discharges
- Muck “sump” is full
- Removal of muck will benefit the S Banana River