# 1st Year Monitoring Report for

Jordan Marsh Water Quality Treatment Park



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for City of Sanibel Natural
Resources Department

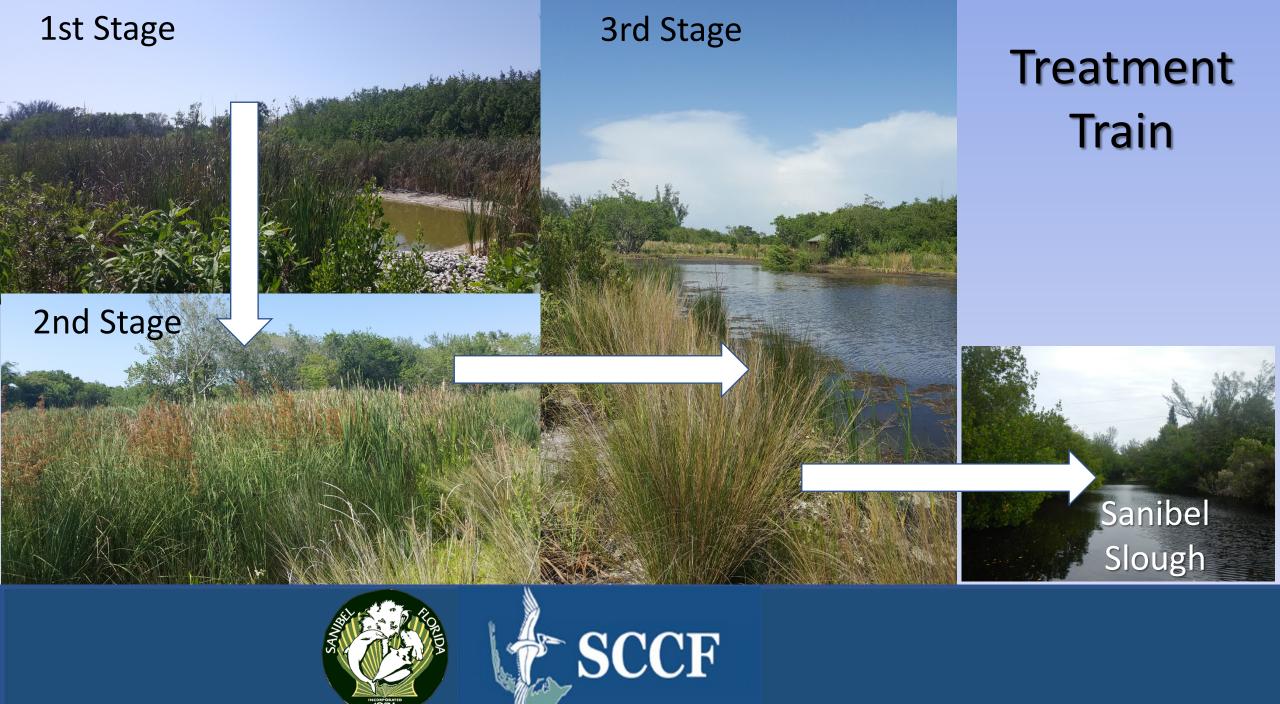












- Influent/Effluent
   Sampled 11 times
   over 1.5 years
- 3 Internal grab sampling events for nutrient removal efficiency by stage









To get nutrient concentration data



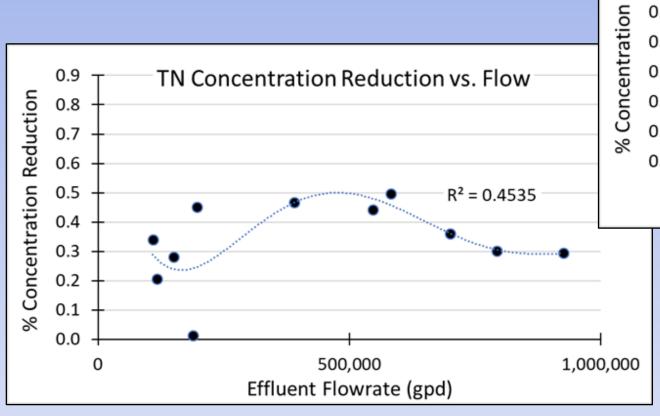


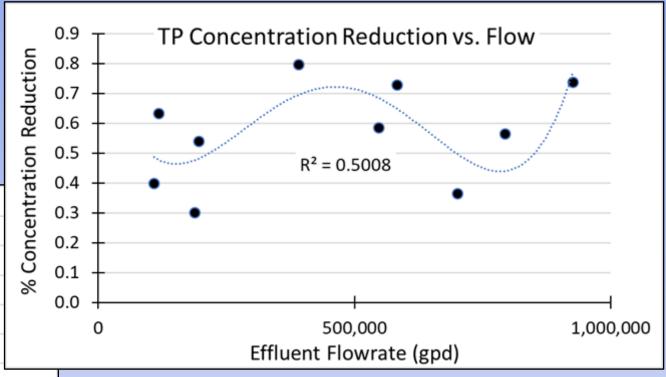




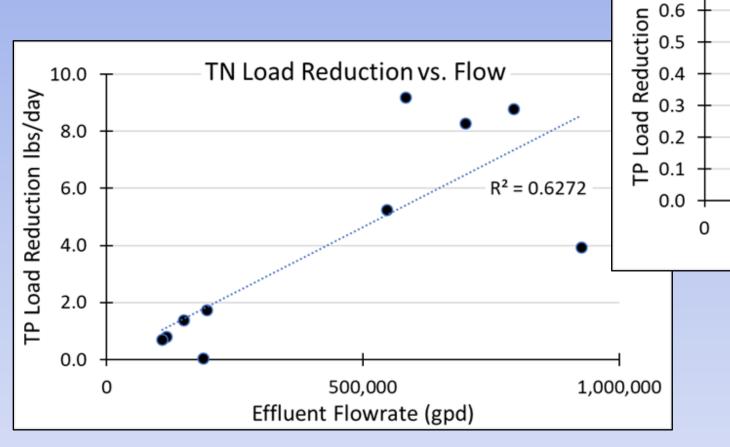
- Level sensor and data logger at weir
- Ultrasonic flow sensor on influent pipe
- Flow recorded hourly
- FLOW DATA X CONCENTRATRION DATA = MASS (lbs.)

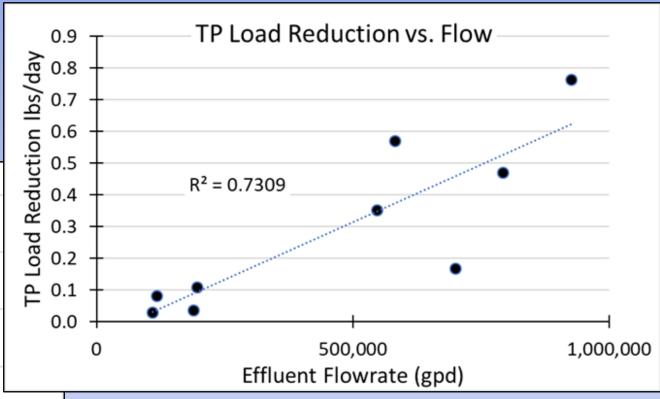




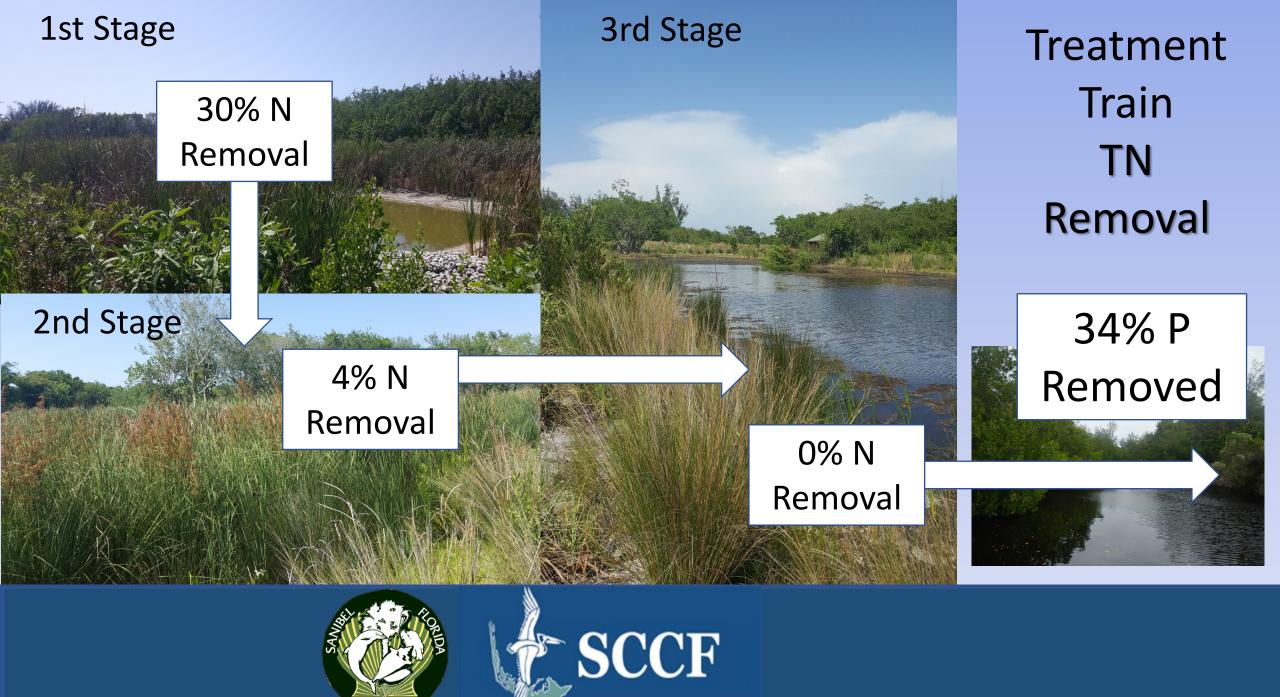


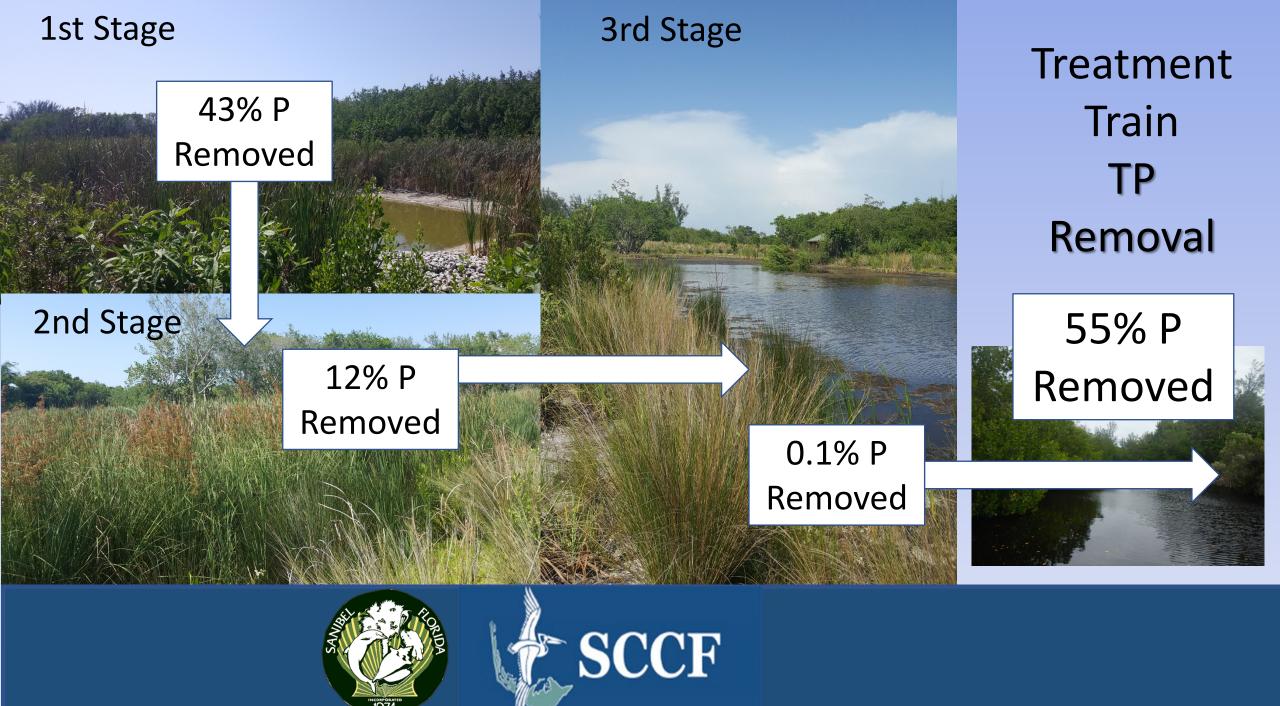


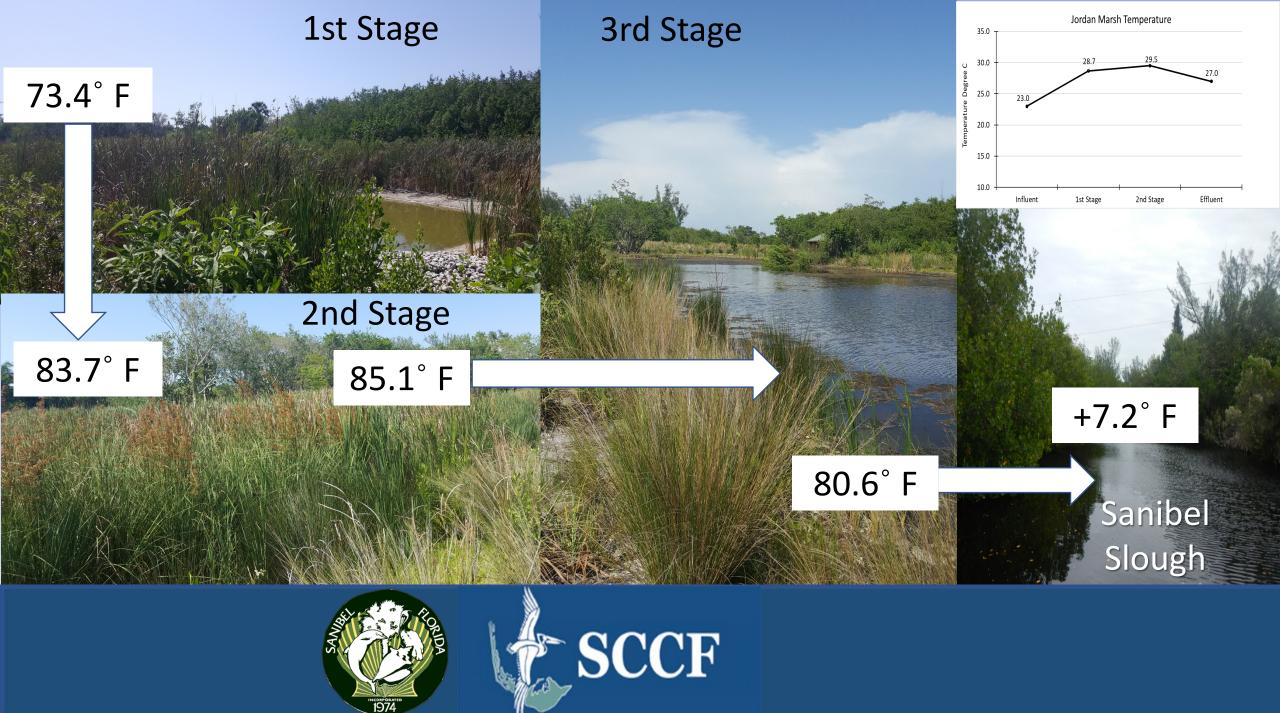


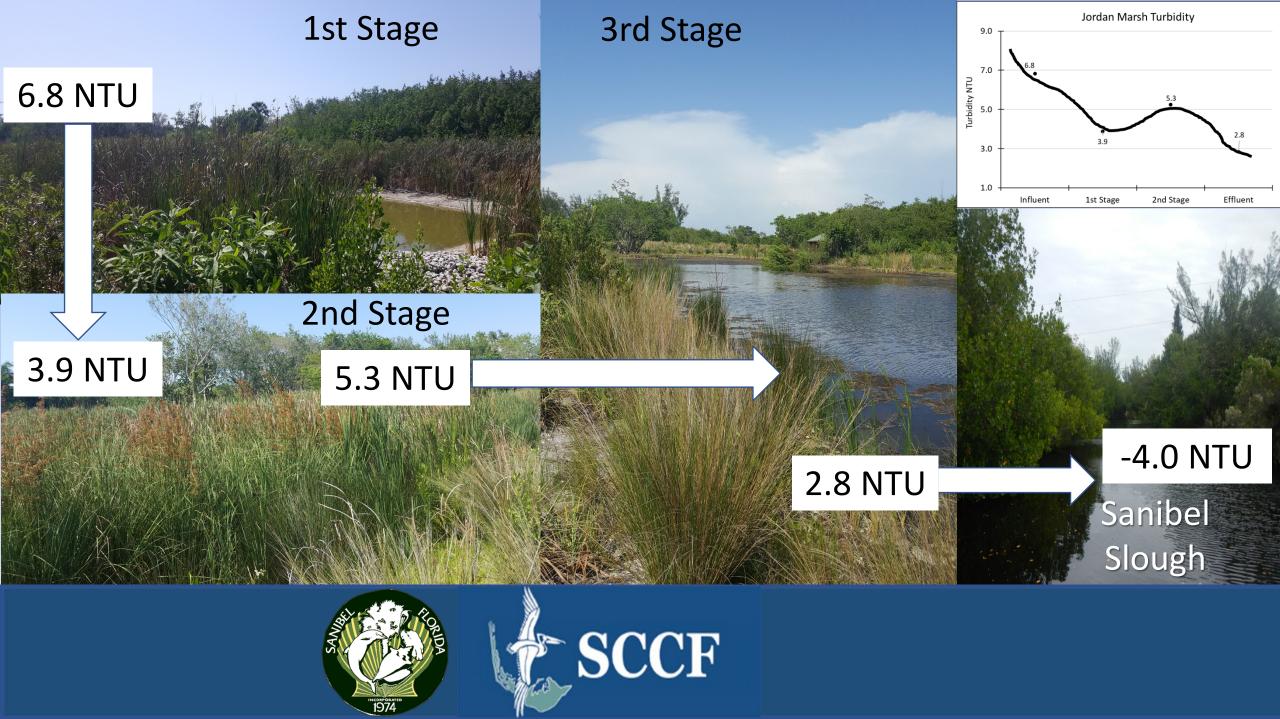




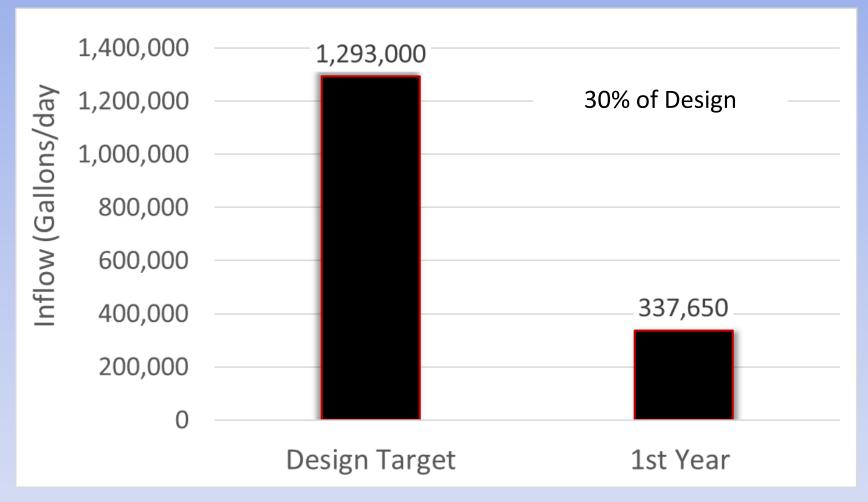






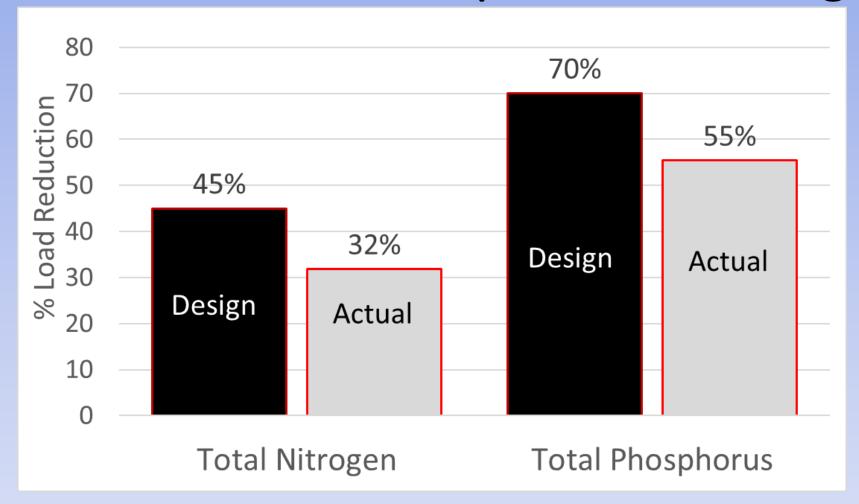


## Hydraulic Loading: Comparison to Design



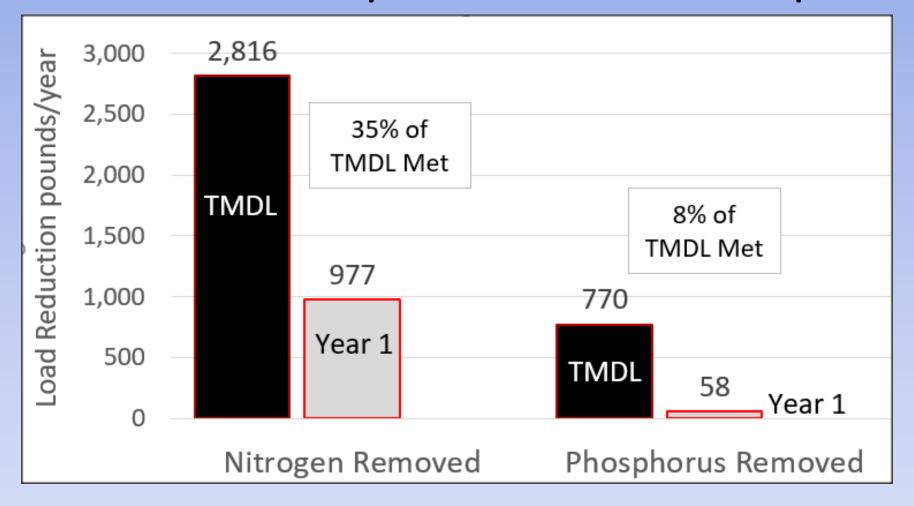


### Load Reduction: Comparison to Design



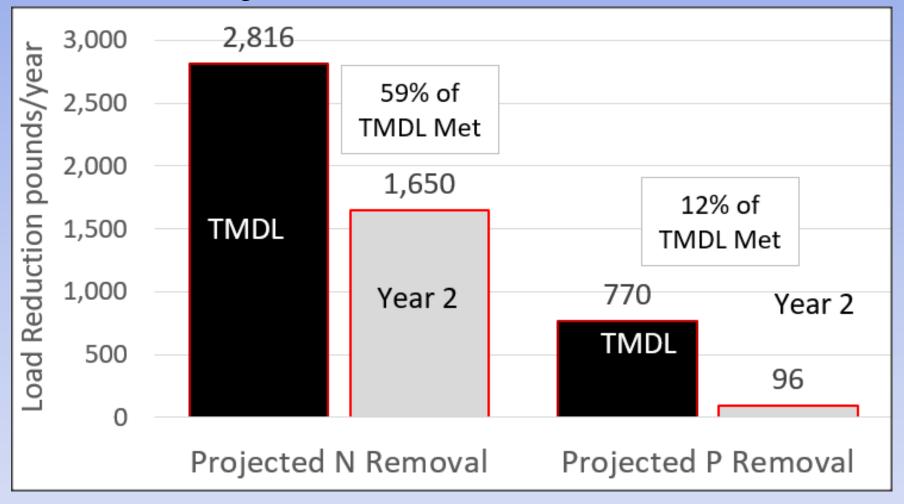


#### Load Reduction: Comparison to TMDL Requirement



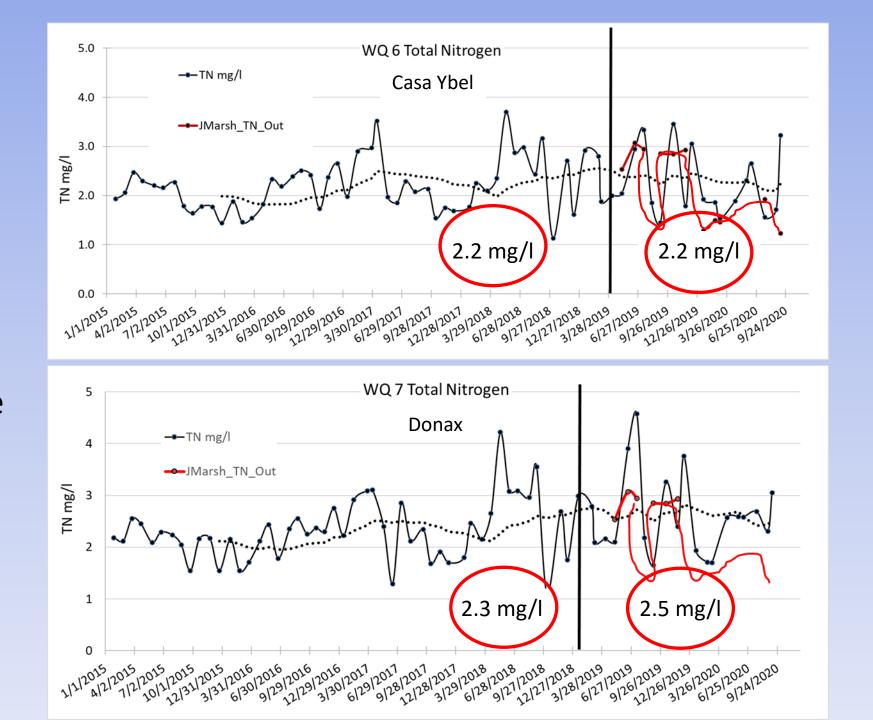


#### **Projected Load Reduction**

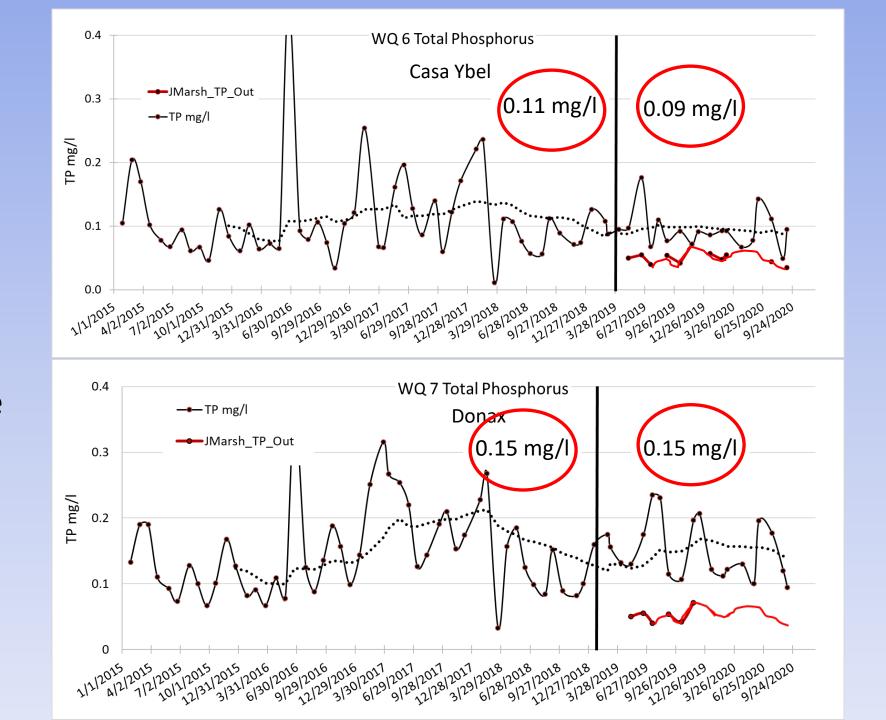




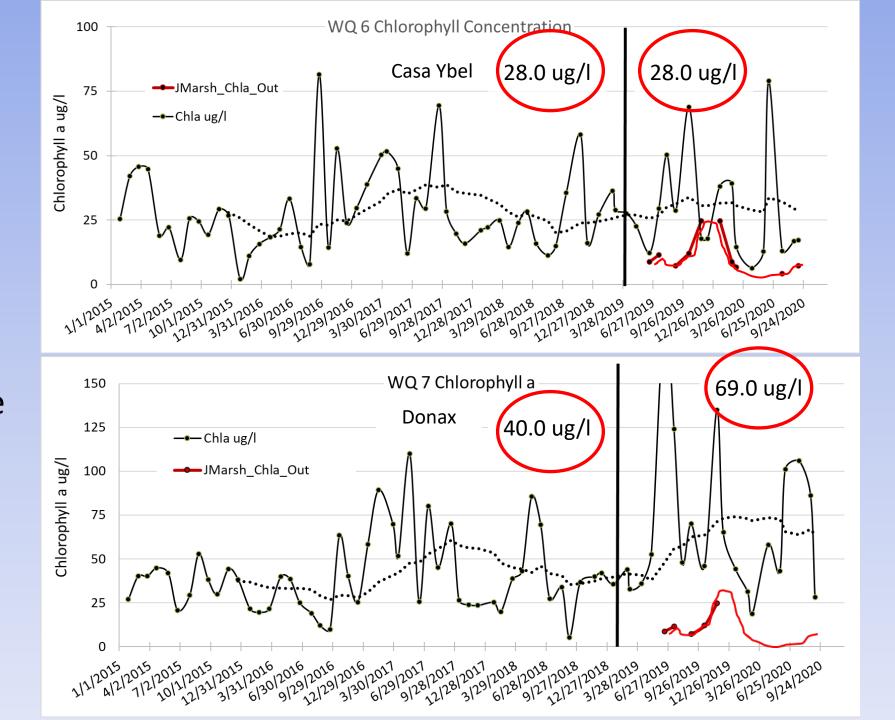
Has there been an impact on water quality within the East Basin yet?



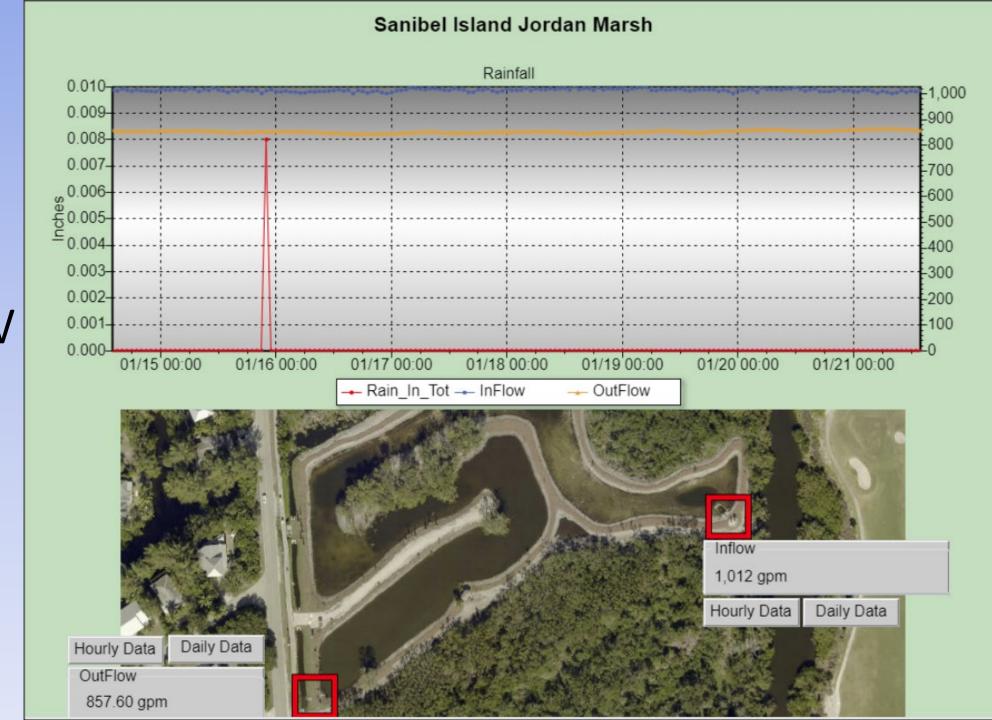
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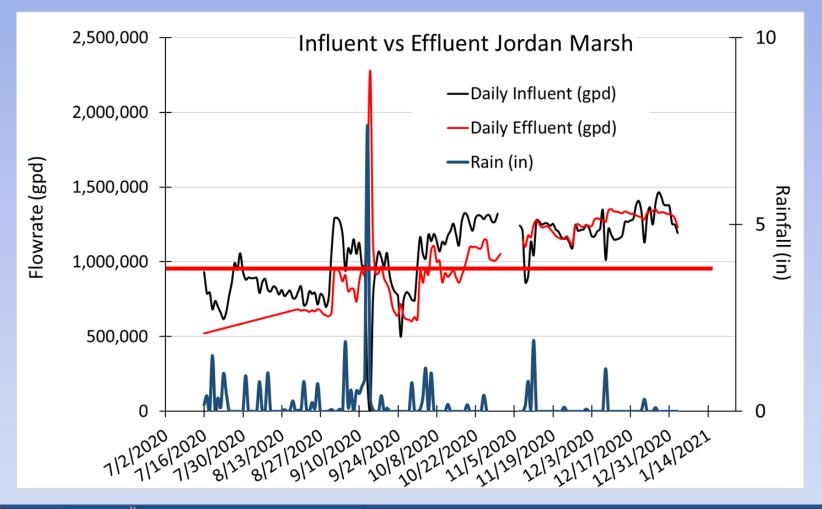


# Website for Real Time Flow Data



#### Recommendations

- Improve mass removal by increasing input rate.
- 1<sup>st</sup> year was only 1/3 of suggested flow





#### Recommendations

- Stage 3 deeper, fewer plants, no removal occurring.
- Add plants!
- Improvement of mass removal by addition of (floating) plants.







