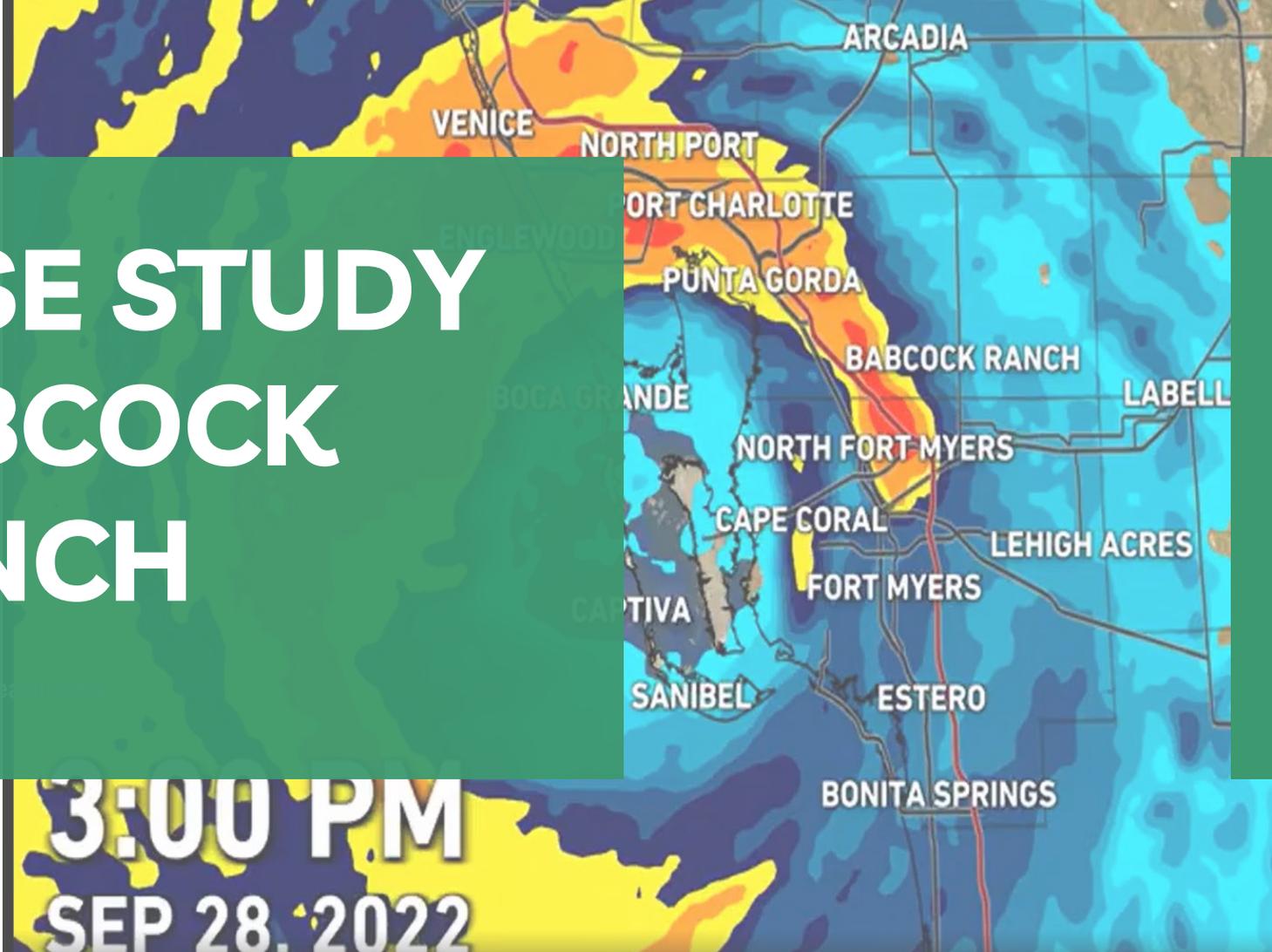


CASE STUDY BABCOCK RANCH RANCH



SO WHAT ABOUT BABCOCK RANCH

01

ABOUT BABCOCK

Solar City – Built Sustainability

02

STORM SAFETY INTEGRATION

Sustainability to protect residents
from the future

03

SMART WEIR INTEGRATION

2022

04

HURRICANE IAN

Watching Hurricane Ian lake levels with
real time data AND using Hurricane Ian
data for future design

05

CURRENT PROGRESS

- Installation of 3 operable weirs
- Downstream Monitoring for releases



BABCOCK RANCH

BABCOCK RANCH



ENVIRONMENT

50% of the Babcock Ranch footprint is set aside for greenspaces

ENERGY

In partnership with FPL, Babcock Ranch has over 870 acres of land dedicated to Solar Panels that produce nearly 150MW of energy.

HEALTHY LIFESTYLE

Designed with walkability and bike-ability in mind the community makes it easy to live your life while keeping the car at home.



STORM SAFETY INTEGRATION

5 Major Hurricanes have effected the Southwest Florida Coast in modern history

- Donna—September 1960
- Charley—August 2004
- Wilma—October 2005
- Irma—September 2017
- Ian—September 2022

STORM SAFETY INTEGRATION

DESIGNED FOR THE IMPACTS OF WIND

- System is built with redundancies to prevent isolated blockages
- Isolated storage and overflows have been integrated into the community
- Carefully thought of series of failure incorporated into the storm operation of the system



SMART WEIR INTEGRATION

With the impacts of Hurricane Irma demonstrating the resiliency of the Babcock Ranch System, but still exposing the vulnerability to flooding experienced throughout SWFL; Babcock Ranch embarked on a partnership with NST in 2021 to begin monitoring lake levels in Babcock Ranch.



**SEPTEMBER
2022**

HURRICANE IAN



**SEPTEMBER
2022**

HURRICANE IAN



**SEPTEMBER
2022**

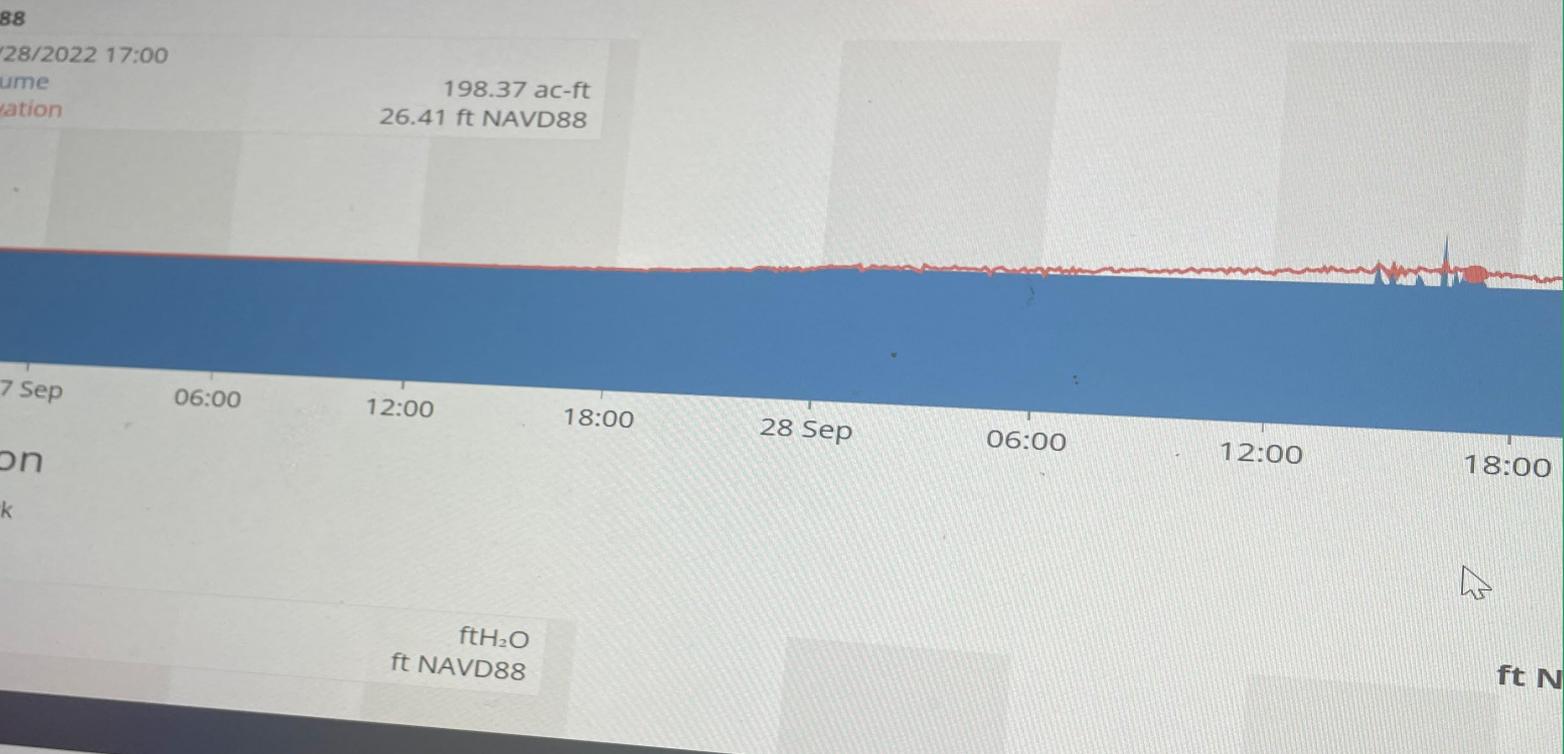
HURRICANE IAN



**SEPTEMBER
2022**

HURRICANE IAN

Monitoring: CHAR-001 (View Only)



HURRICANE IAN

MDP_4851EDIT2.jpg

MDP_4892EDIT.jpg

Project developed by

NOW



FL-BA-CHAR-001 – A1000
West CS-A10A



FL-BA-CHAR-002 – A1000 East
CS-A10B



FL-BA-CHAR-003 – 500 CS-
500A



FL-BA-CHAR-004-A400E-CS-
A4D

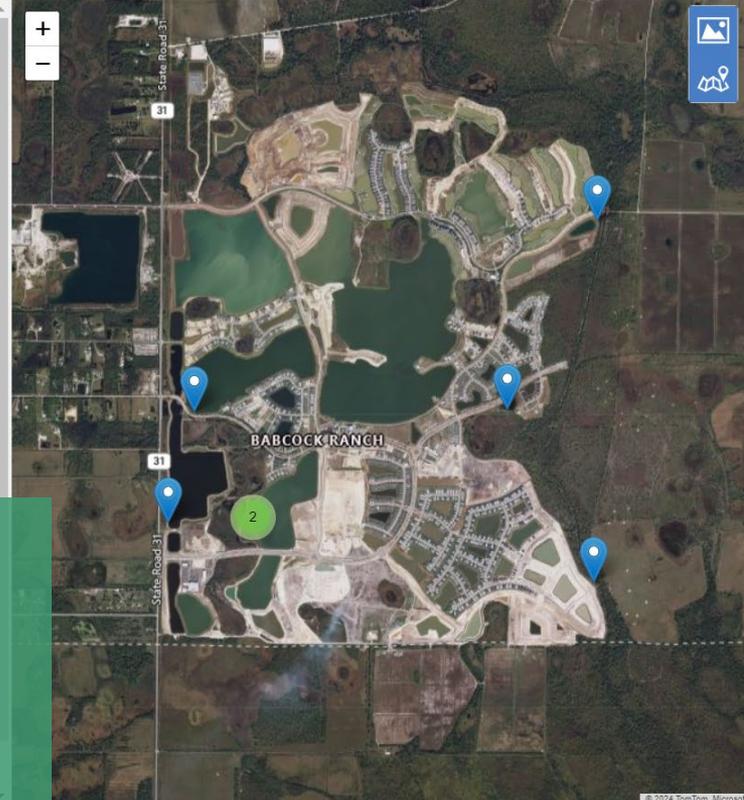


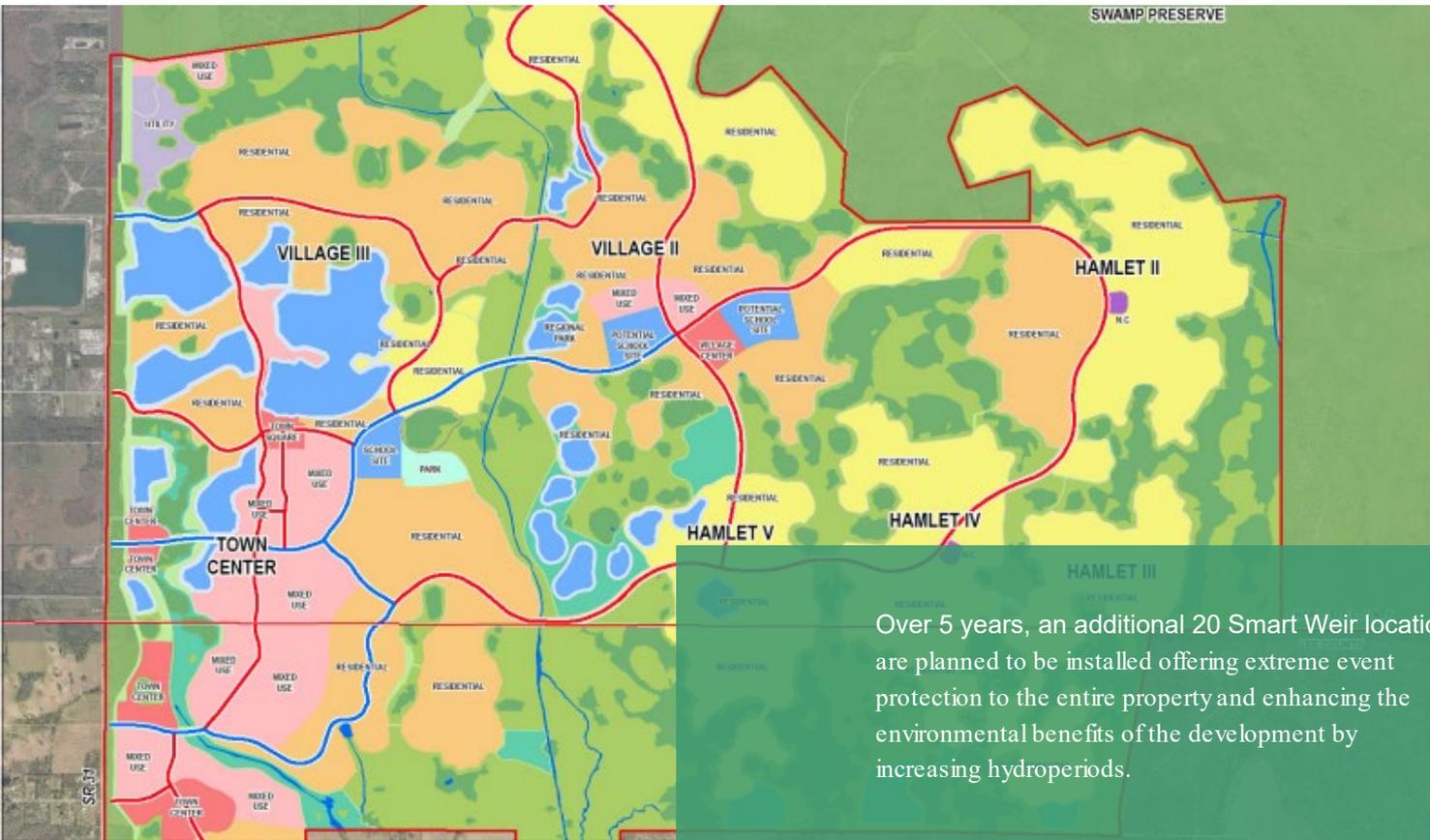
FL-BA-CHAR-005-A400 West
TSC-A4E



FL-BA-CHAR-006-WC7-CS-
AM1

Presently there are 6 total stations in Babcock Ranch,
with 3 of them having Smart Weir technology





Over 5 years, an additional 20 Smart Weir locations are planned to be installed offering extreme event protection to the entire property and enhancing the environmental benefits of the development by increasing hydroperiods.

FUTURE

QUESTIONS

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