

Engaging Stakeholders with Texas CHARM



May 03, 2017

Steven Mikulencak, AICP
smikulencak@tamu.edu



FEMA



TEXAS A&M
AGRI LIFE
EXTENSION



TEXAS COASTAL WATERSHED
PROGRAM



TEXAS A&M
AGRI LIFE
EXTENSION



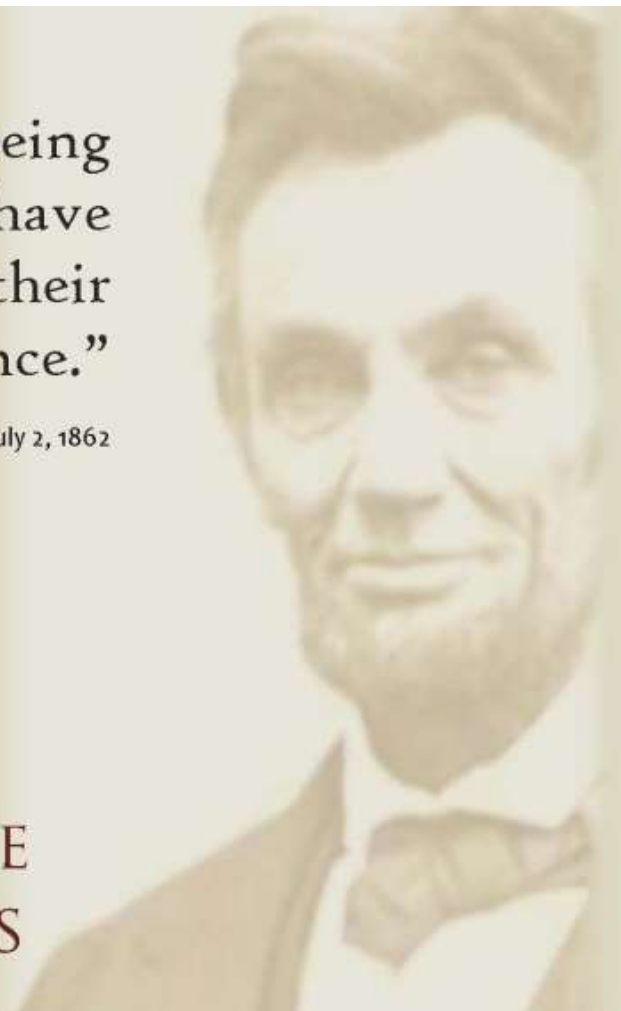
TEXAS COASTAL WATERSHED
P R O G R A M

“The land grant university system is being built on behalf of the people, who have invested in these public universities their hopes, their support, and their confidence.”

Abraham Lincoln, upon signing the Morrill Act, July 2, 1862

SERVING YOU TODAY

TRUSTED RESEARCH
LOCAL EDUCATORS...
EXTENDING KNOWLEDGE
PROVIDING SOLUTIONS



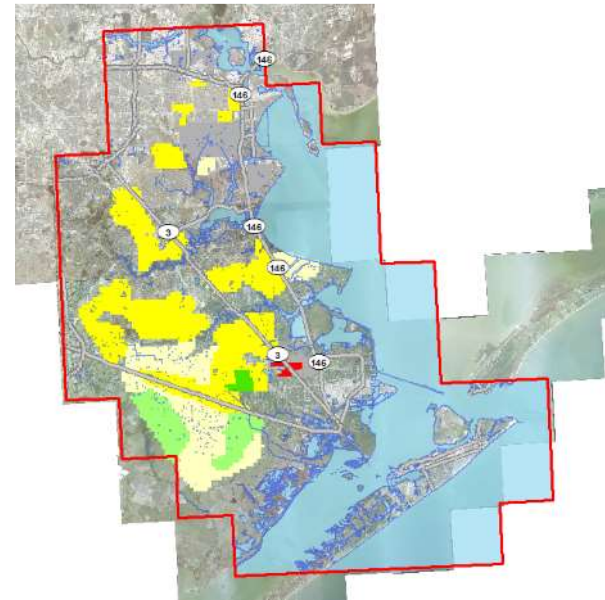
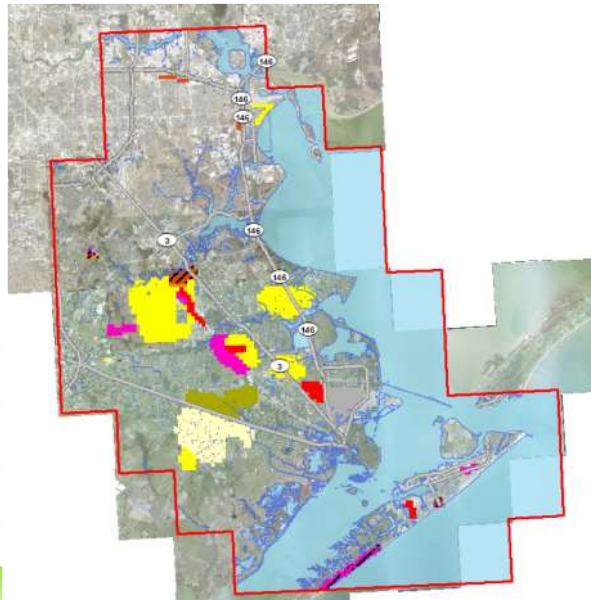
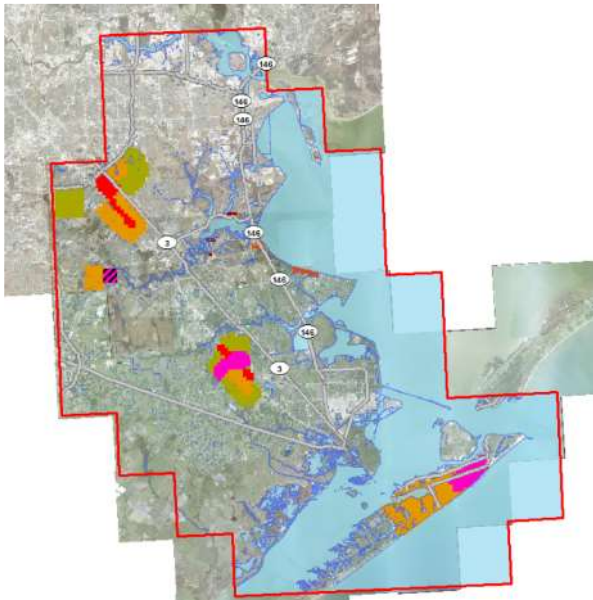
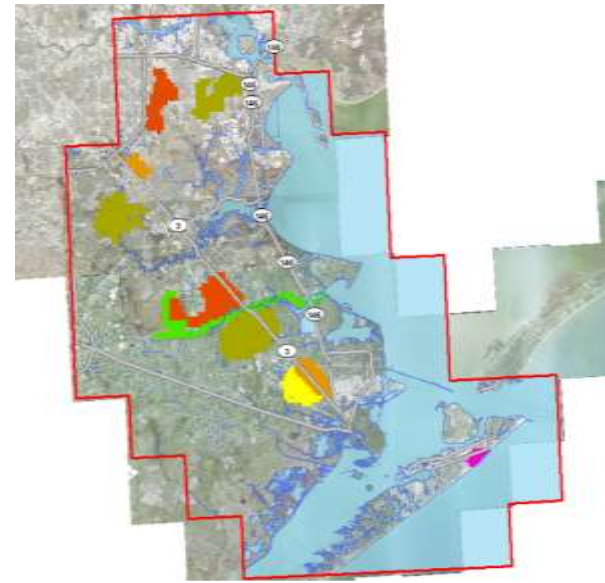
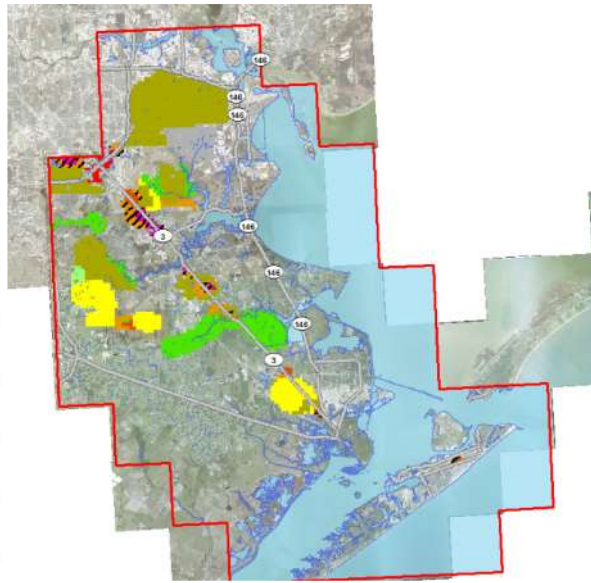
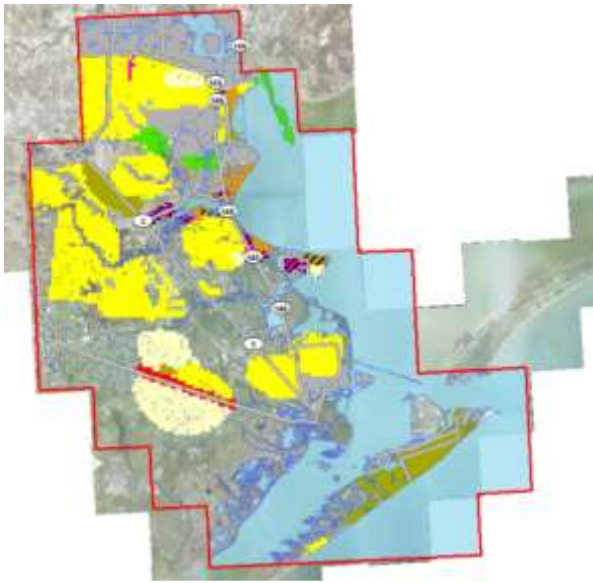
APPROACHES TO RESILIENCY PLANNING

About Growth in
All the Right Places



Community Health And Resource Management

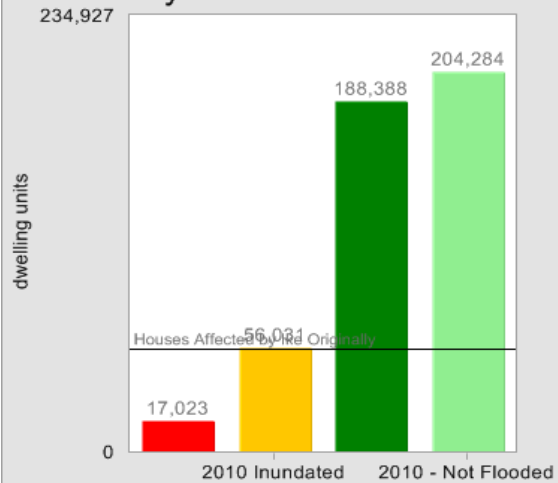




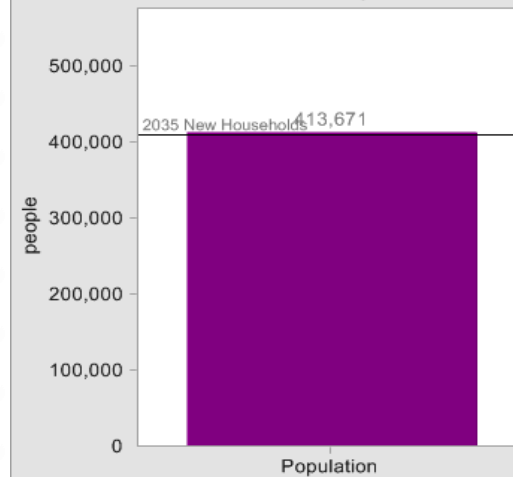
Painted Jobs to Households



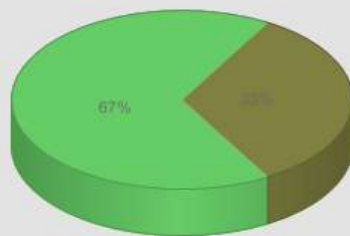
Houses by Storm Inundation Area



Total Painted Population

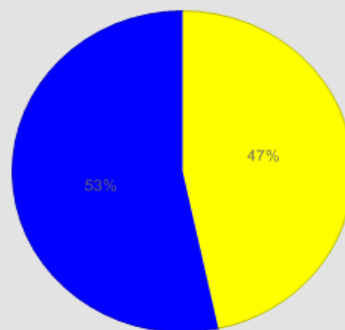


Ecologic Priority Land Impacted by Paints



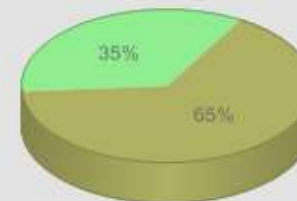
Developed Remaining

Population by Transit Potential



Car Dependent Transit Friendly Transit Oriented

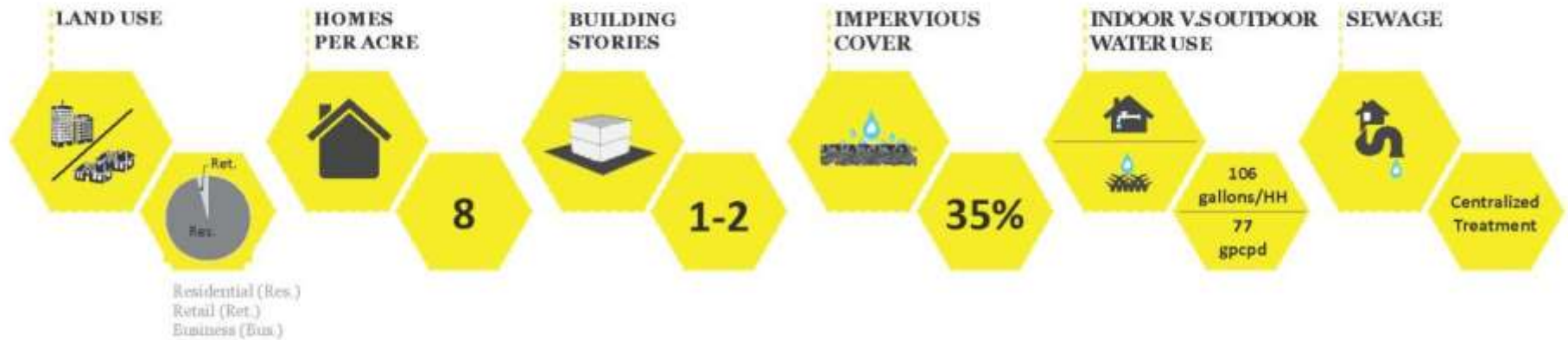
Prime Farmland



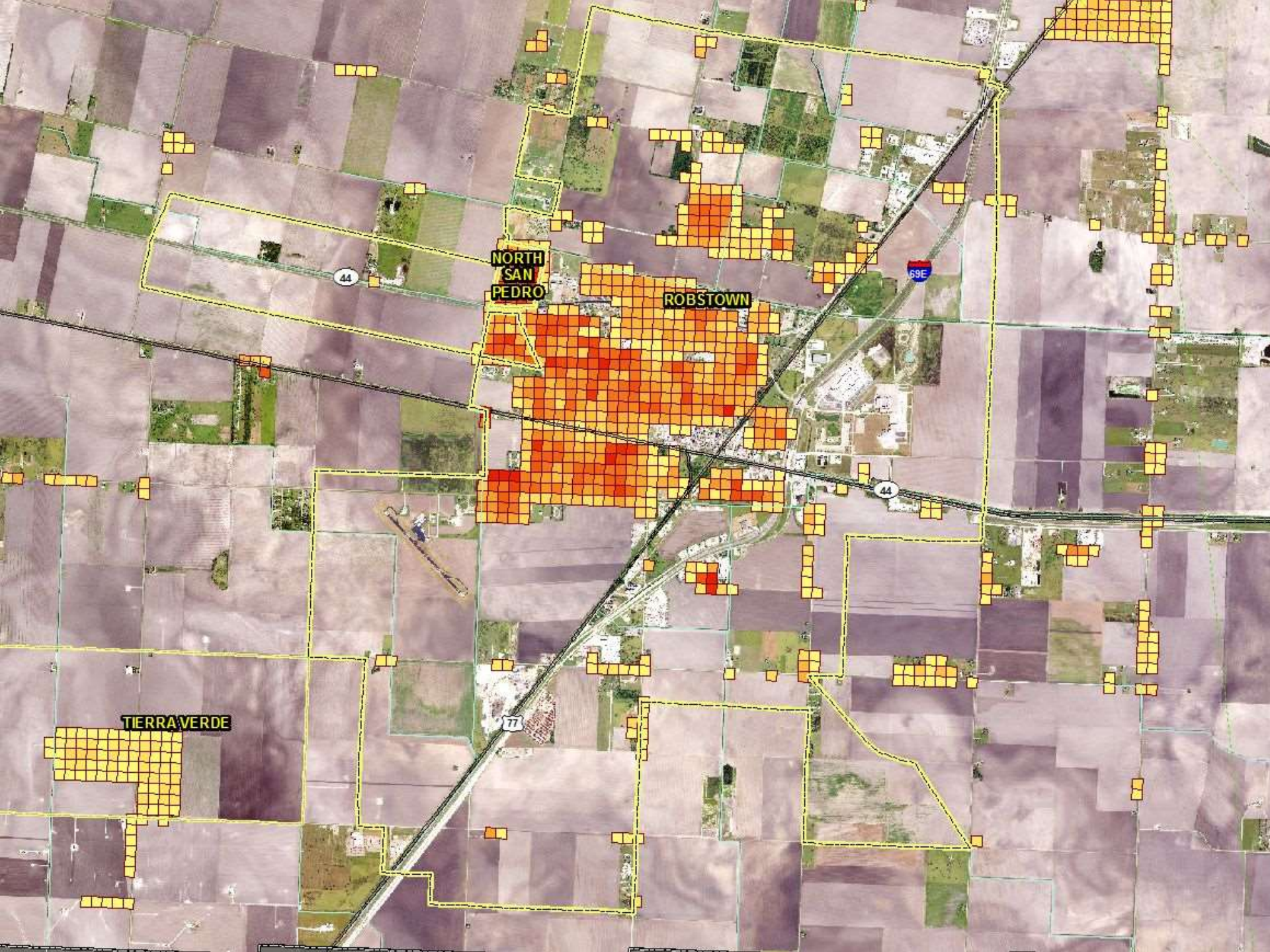
New Built Vacant

2.5-Acre Grid





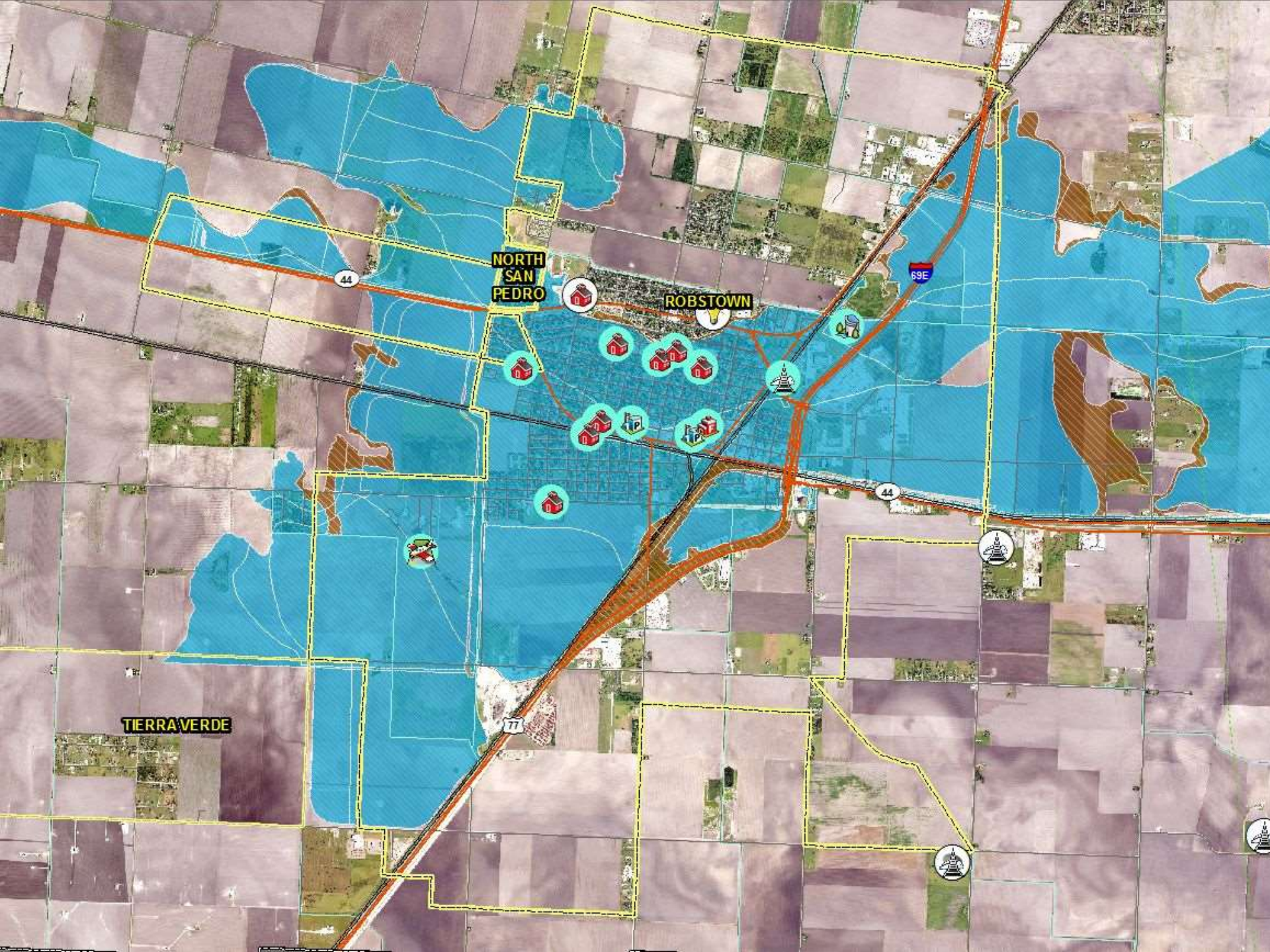
POSTAGE STAMP LAWNS TOWN GRID



NORTH
SAN
PEDRO

ROBSTOWN

TIERRA VERDE



**NORTH
SAN
PEDRO**

ROBSTOWN

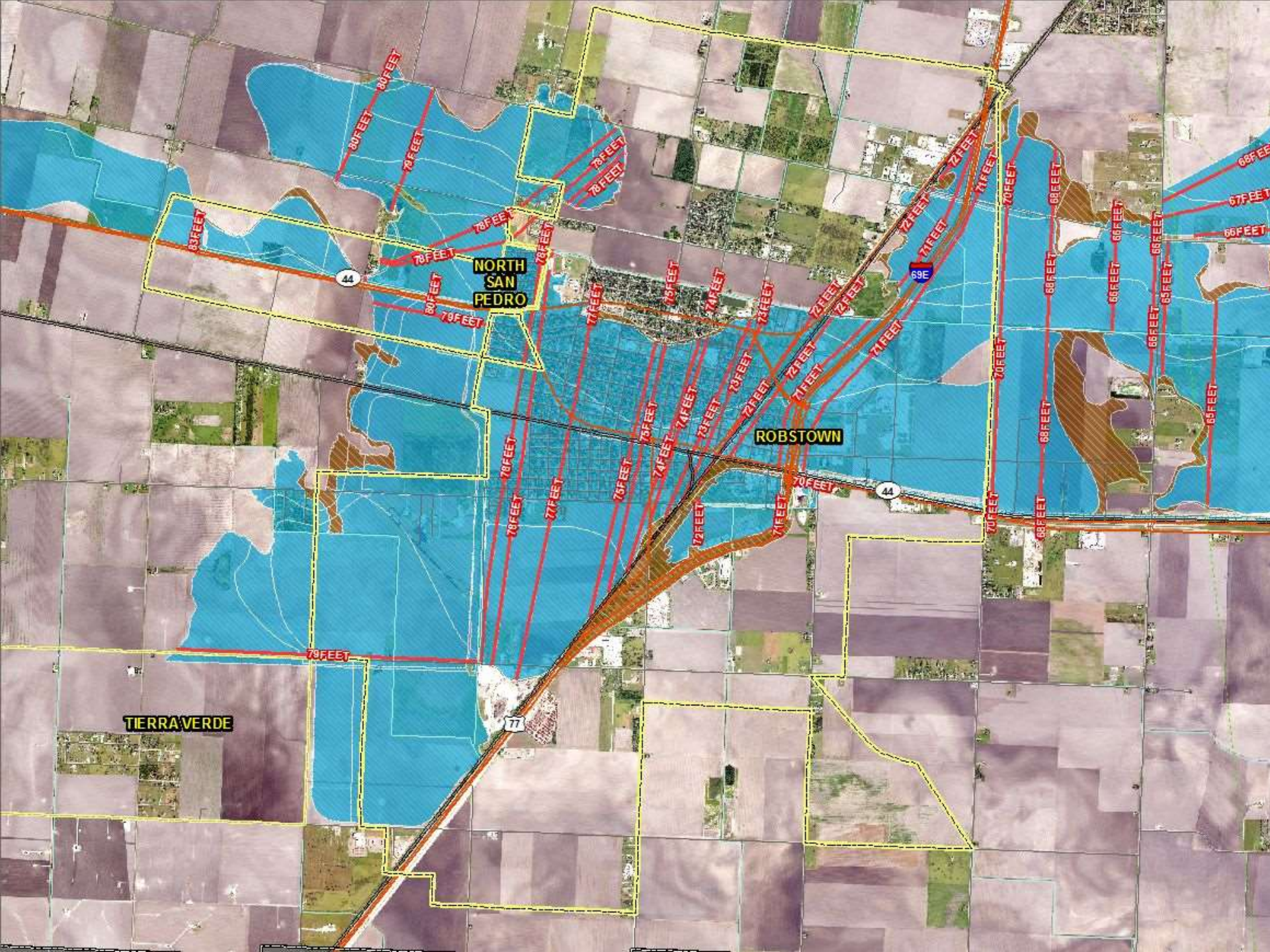
TIERRA VERDE

44

69E

44

77



**NORTH
SAN
PEDRO**

ROBSTOWN

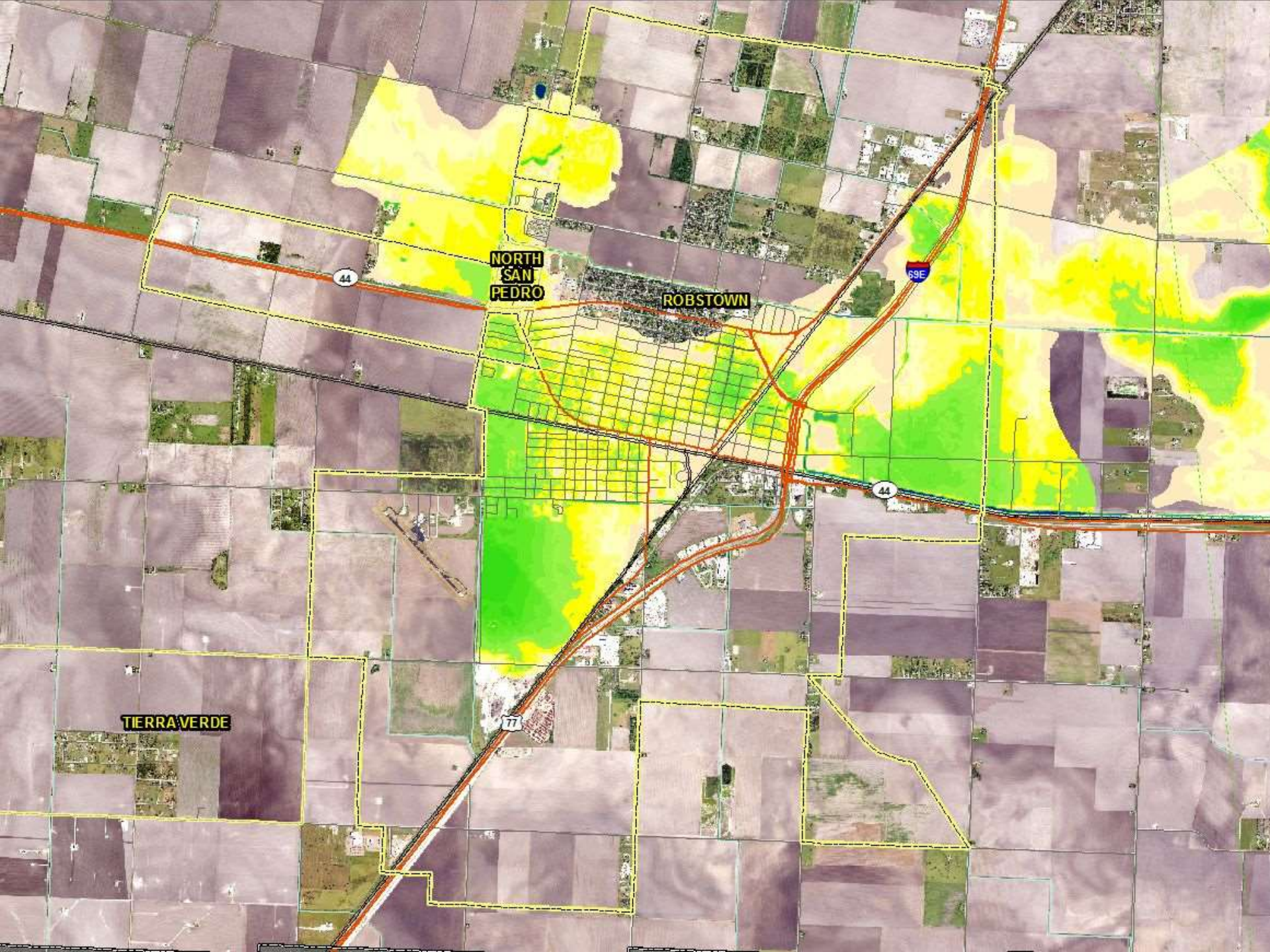
TERRAVERDE

44

69E

44

17



NORTH
SAN
PEDRO

ROBSTOWN

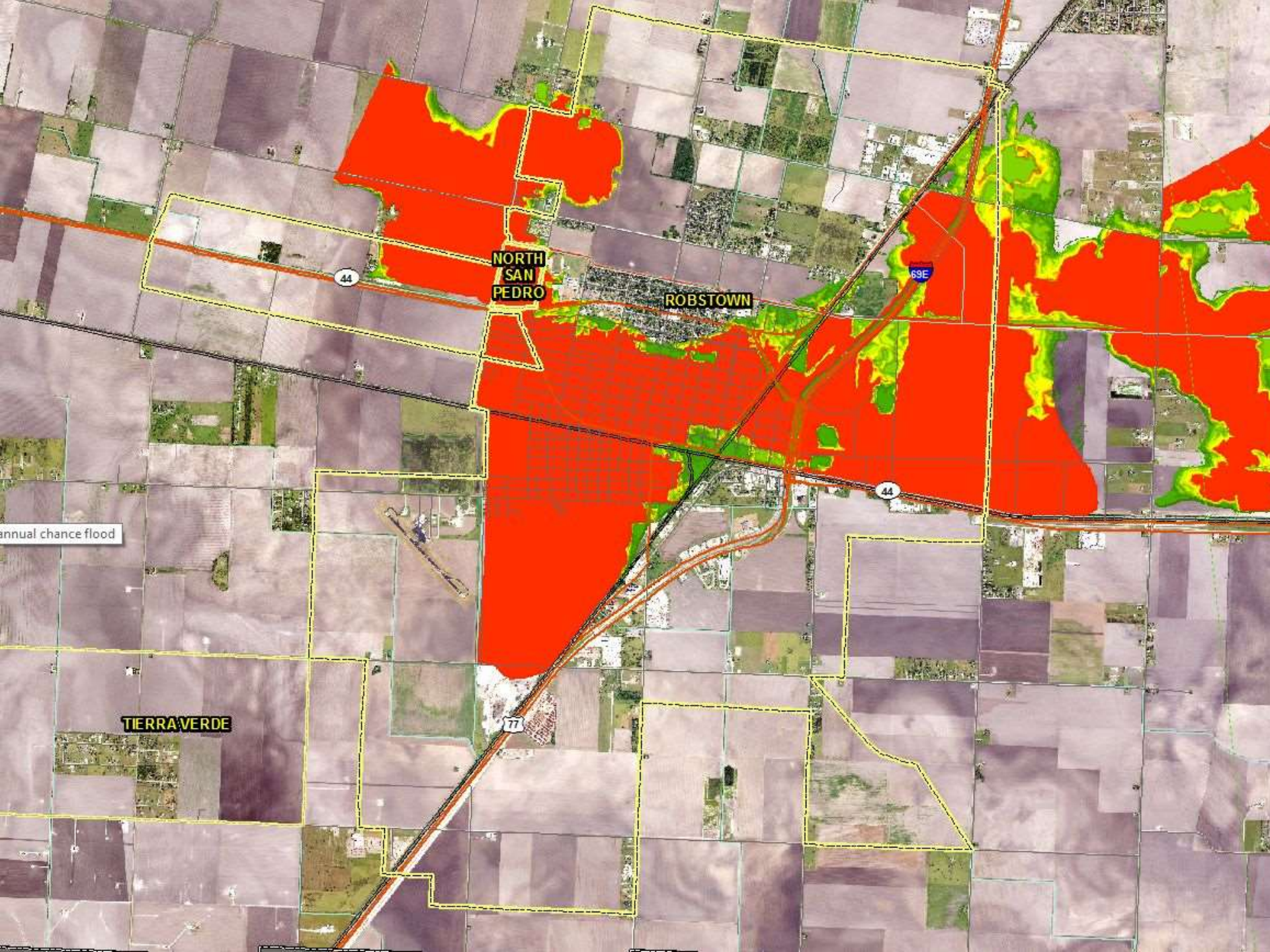
TIERRA VERDE

44

69E

44

44



NORTH
SAN
PEDRO

ROBSTOWN

69E

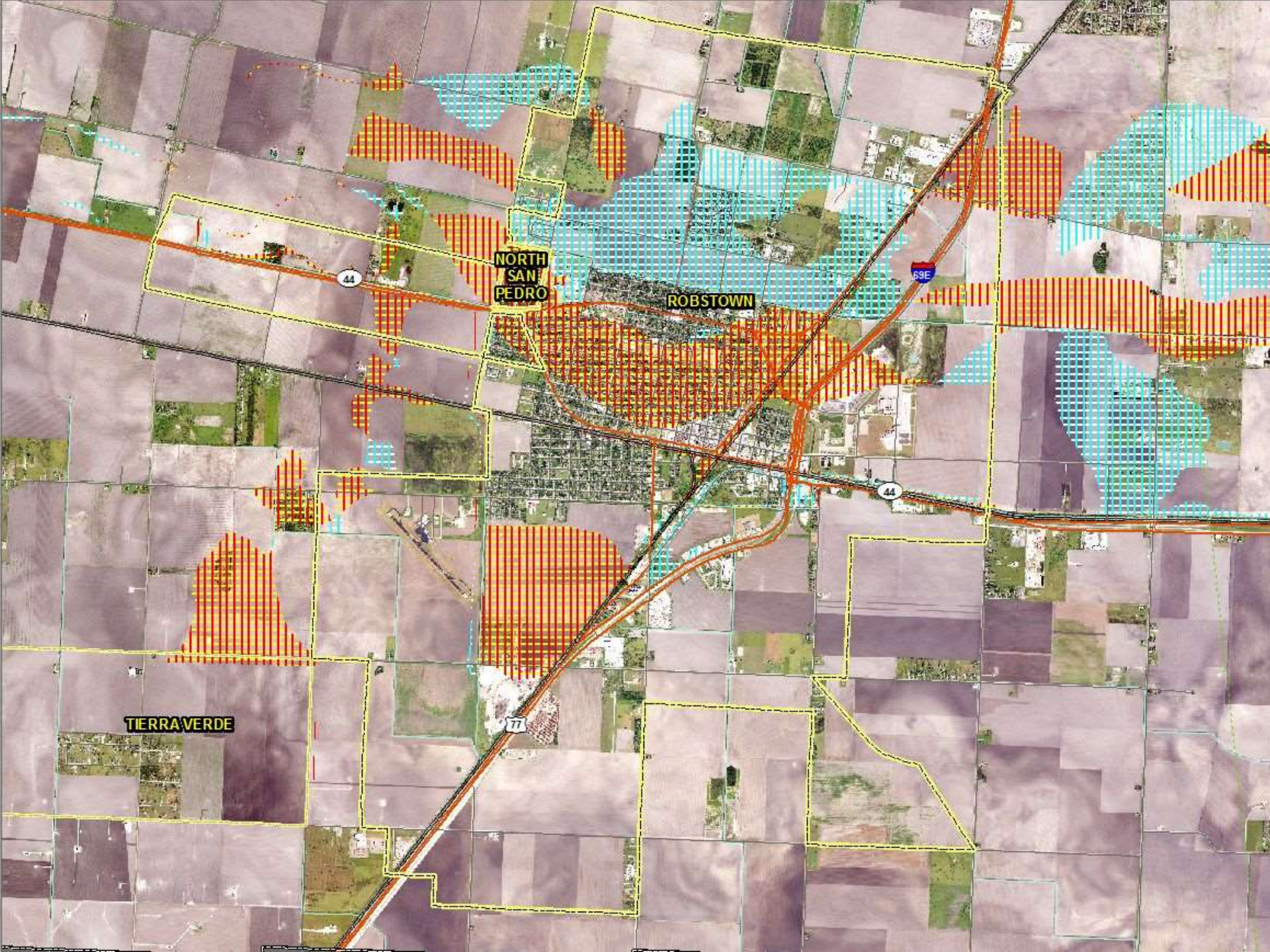
44

44

77

TIERRA VERDE

annual chance flood



**NORTH
SAN
PEDRO**

ROBSTOWN

TERRA VERDE

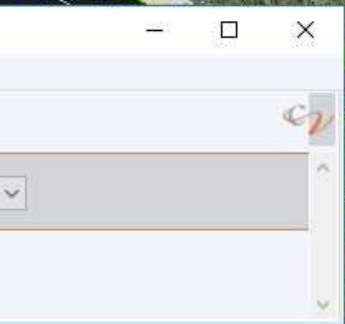
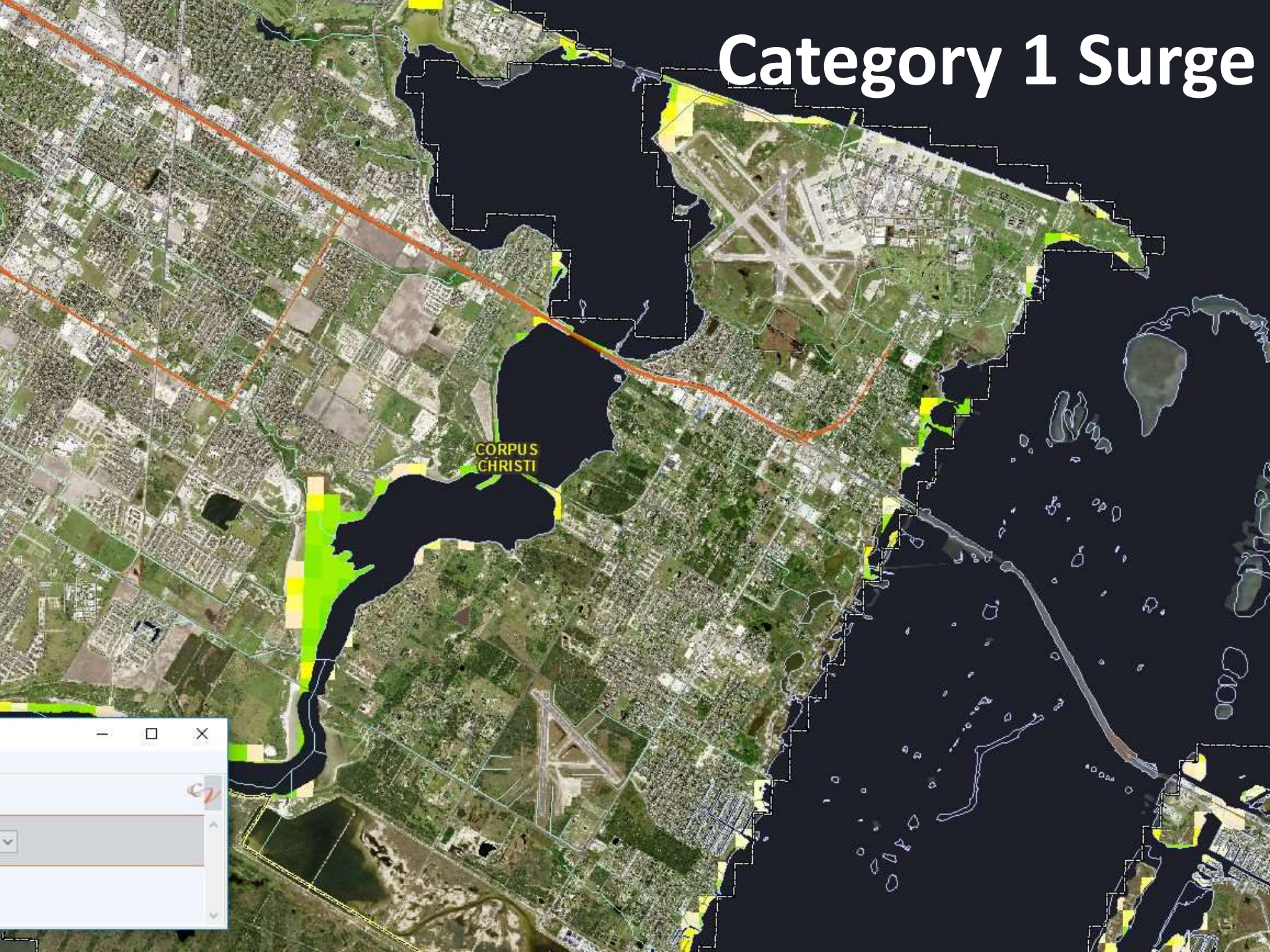
44

69E

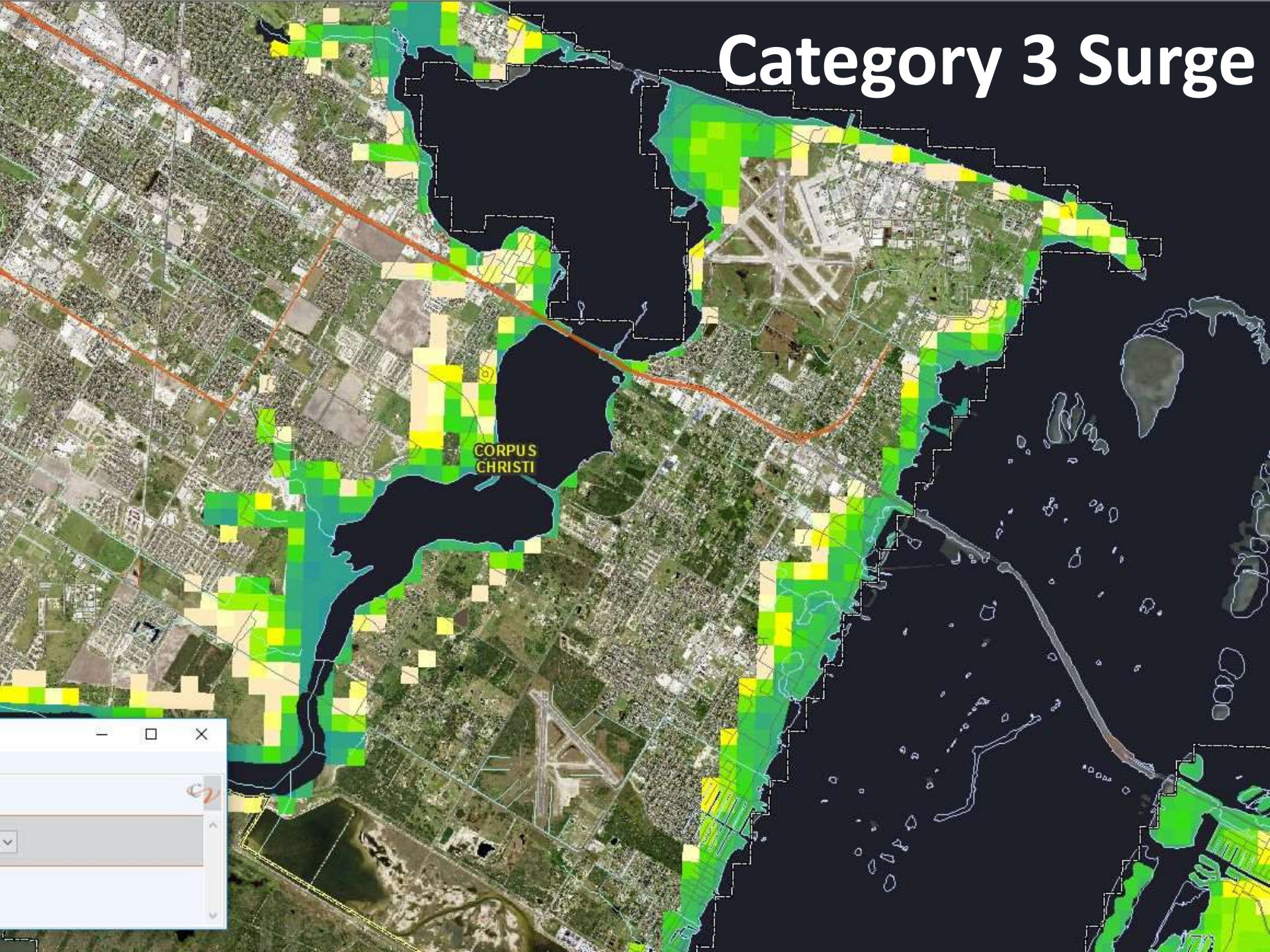
44

17

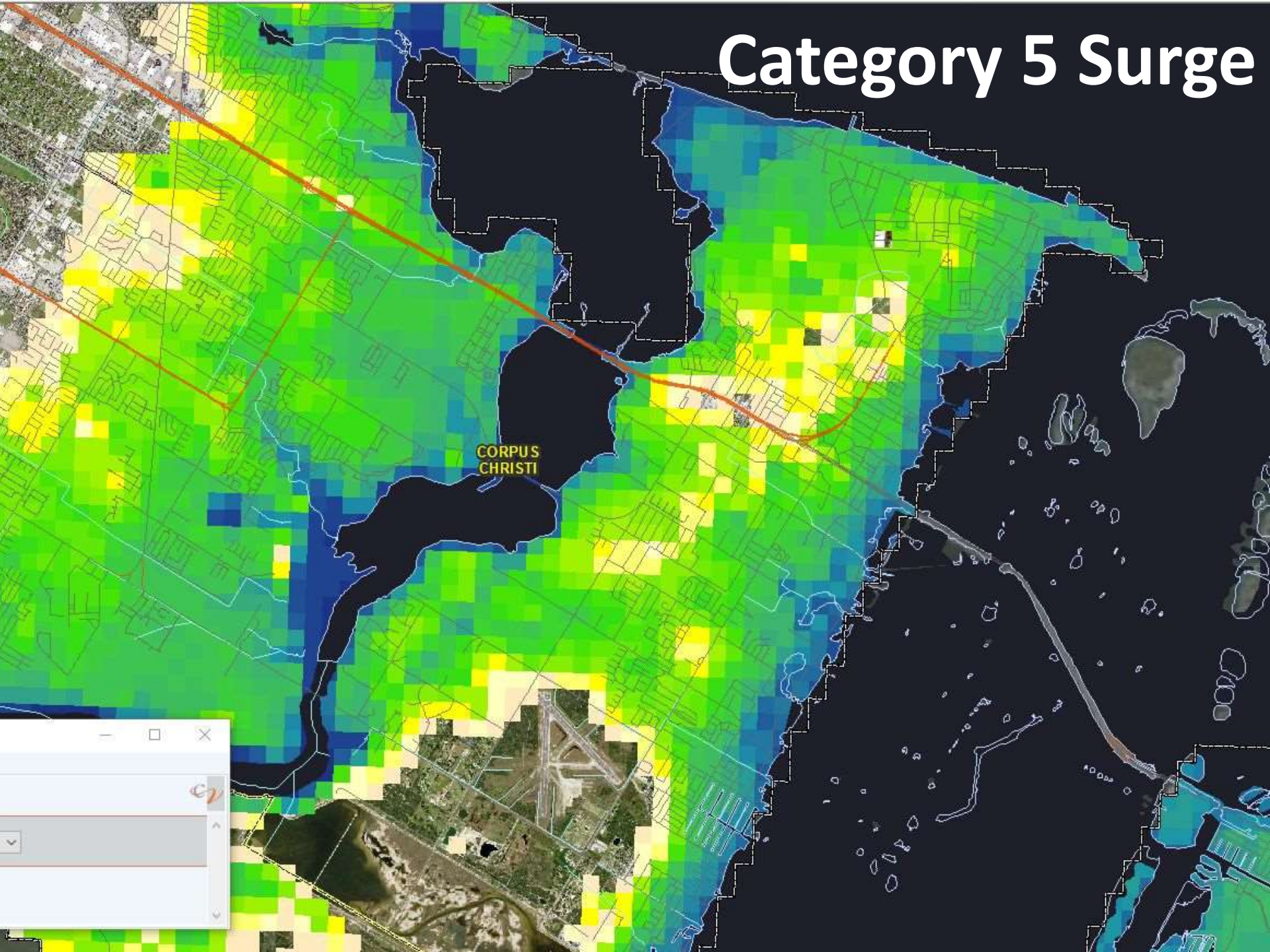
Category 1 Surge



Category 3 Surge



Category 5 Surge



CHARM BY THE NUMBERS

3-10 Participants per tables

26 GIS Layers

220 Indicators

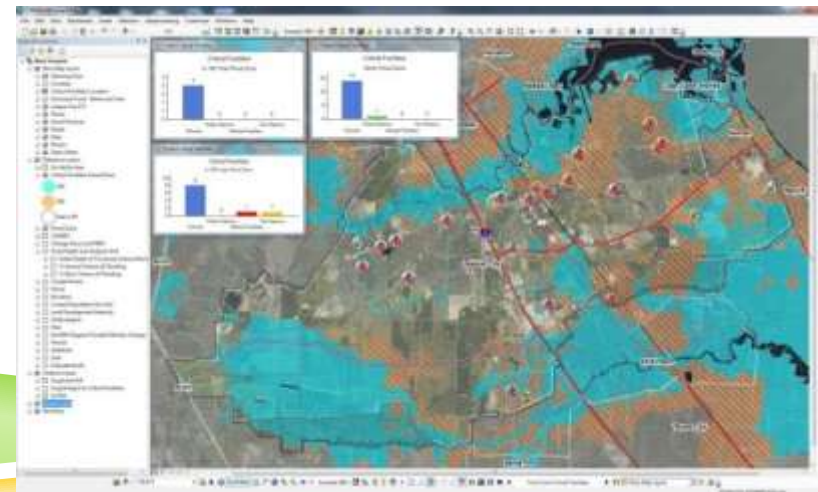
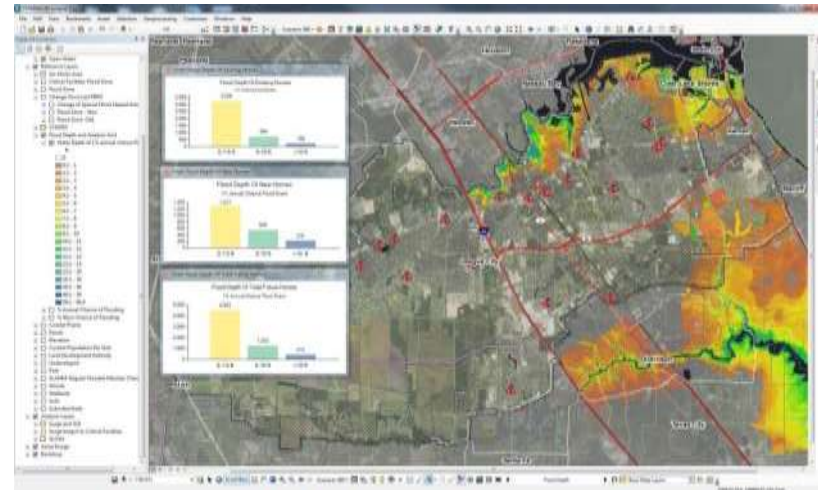
11 Assumptions

60 Charts

114 CHARM Attributes

14 Land Use Paints

15 Data Layouts



CHARM Supports Dialogue



Vision without action is a daydream.
Action without vision is a nightmare.

-Japanese Proverb

A PLATFORM FOR BRINING PEOPLE TOGETHER

Participate in an alternate reality today where the whole community is coming together to collaborate about their future while using data and real-time analysis. What would this mean for empowerment? For buy-in and decision-making? For understanding a community's risks?



CHARM Program Goals

- ✓ Support Meaningful Planning Workshops With Local Mapping And Planning Tools
- ✓ Lower Obstacles and Costs Caused By Advanced Technology And Skillsets
- ✓ Allow Local Partners To Focus On Dialogue and Collaboration, Not Data Management or Technology

Participant Goals

- ✓ Become familiar with different types of hazard and risk data
- ✓ Understand better the risks specific to their community
- ✓ Link risk reduction with development strategies
- ✓ Identify tradeoffs between different development scenarios

CHARM Exercise Agenda, Part 1:

Explore Existing
Conditions & Risks

Identify Critical
Facilities



CHARM Exercise Agenda, Part 2:

Future Development Scenario Plan

Identify Trade-offs
between development
scenarios



Bring your stories and vision

Collaborate as a table

Commit to continuing
this conversation



Plan Using Guiding Principles





Rockport, TX
March 2016

San Patricio Co March 2016



Texas
Department of
Insurance (TDI)



Jackson Co June 2016



Chambers Co July 2016



Lower Galveston, TX

September 2016



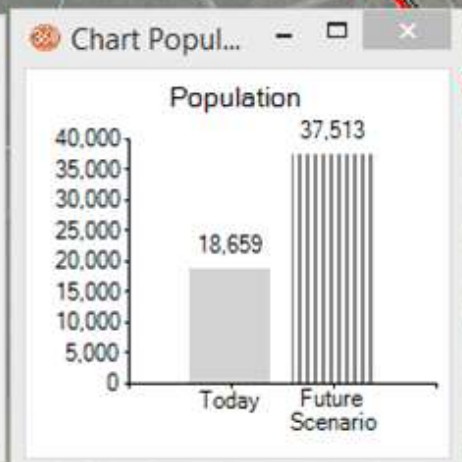
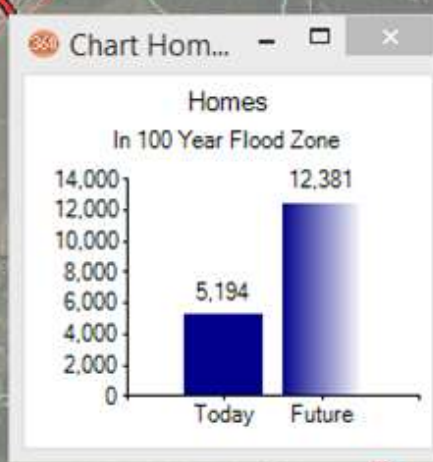
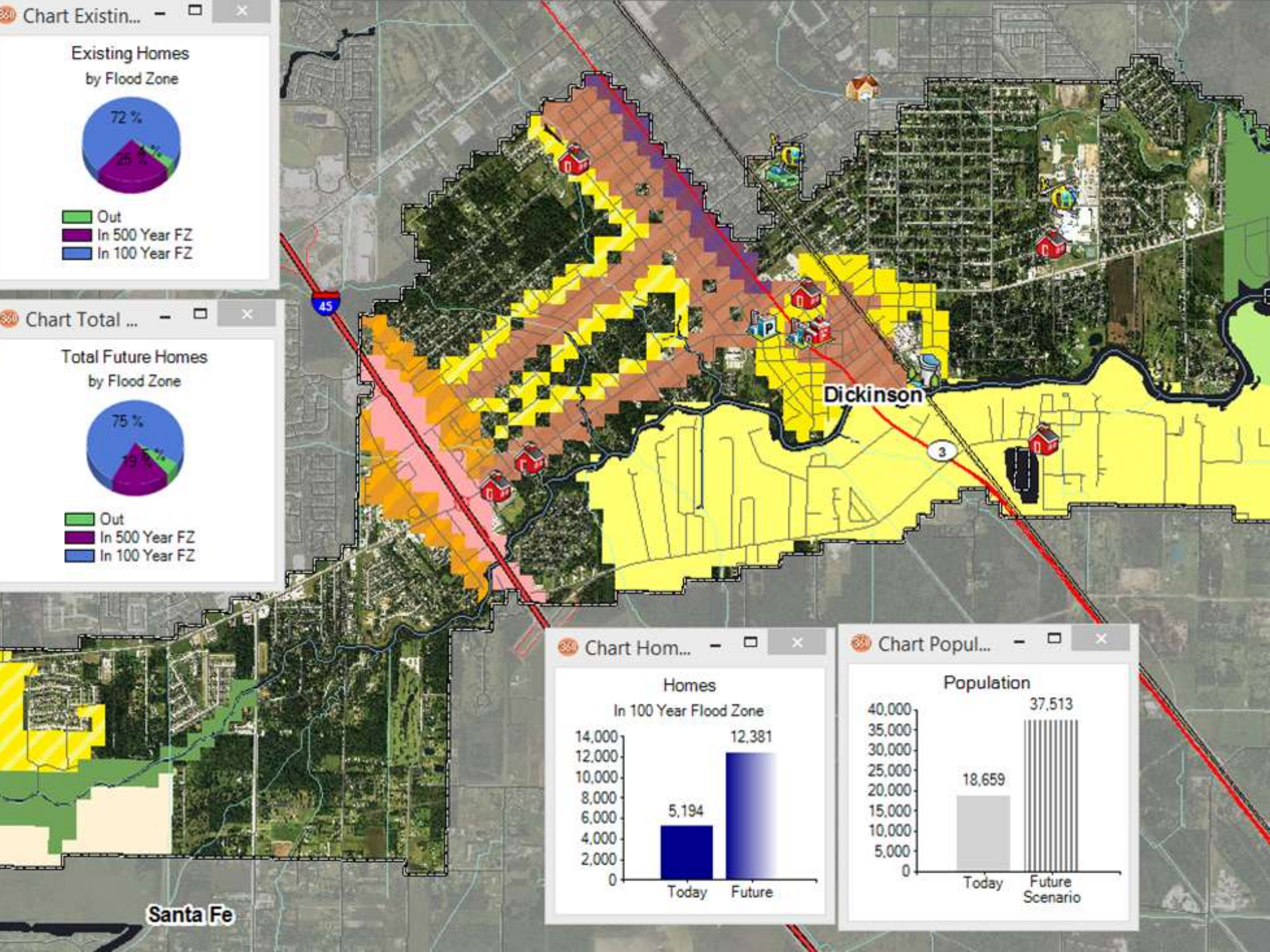
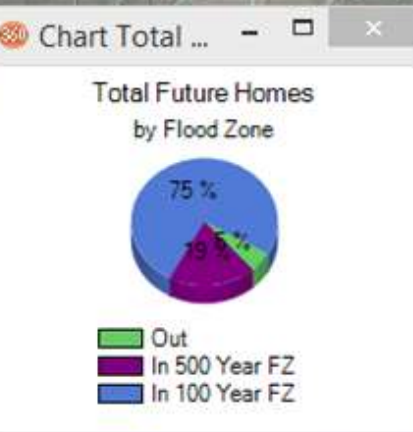


Chart Population

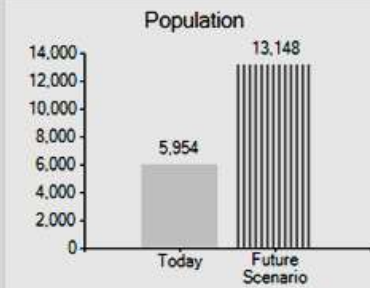
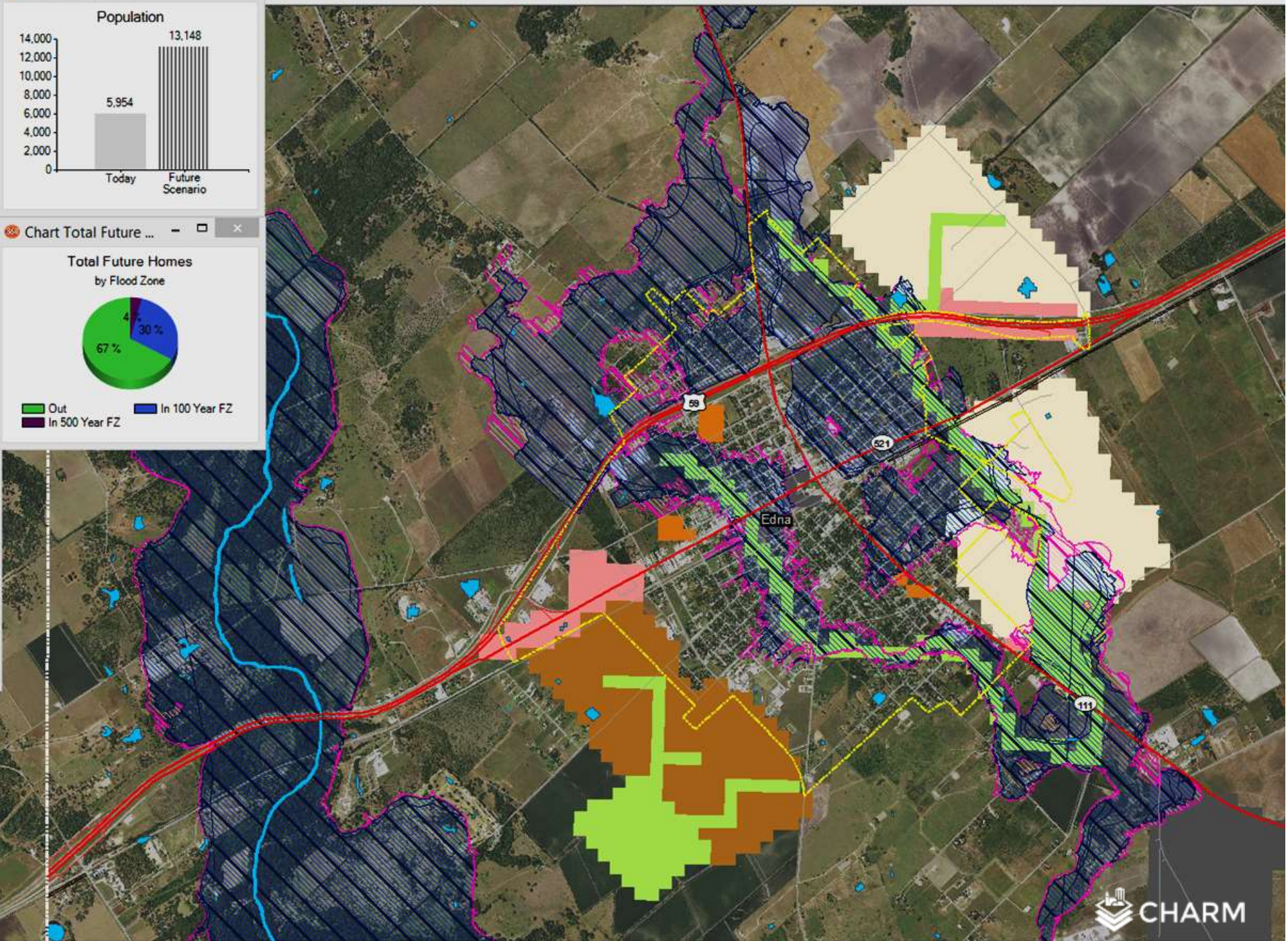
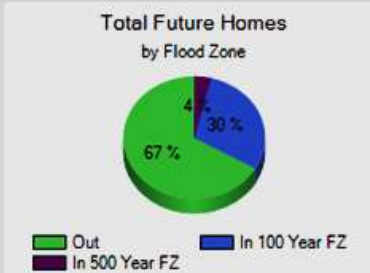


Chart Total Future ...



and Future Surge Risk

to Homes

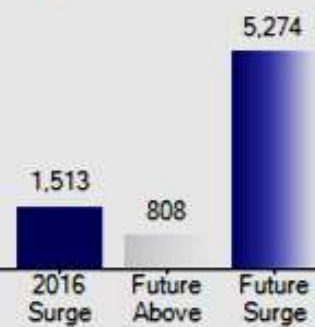
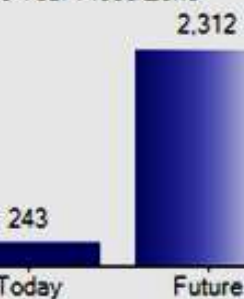


Chart Homes

Homes

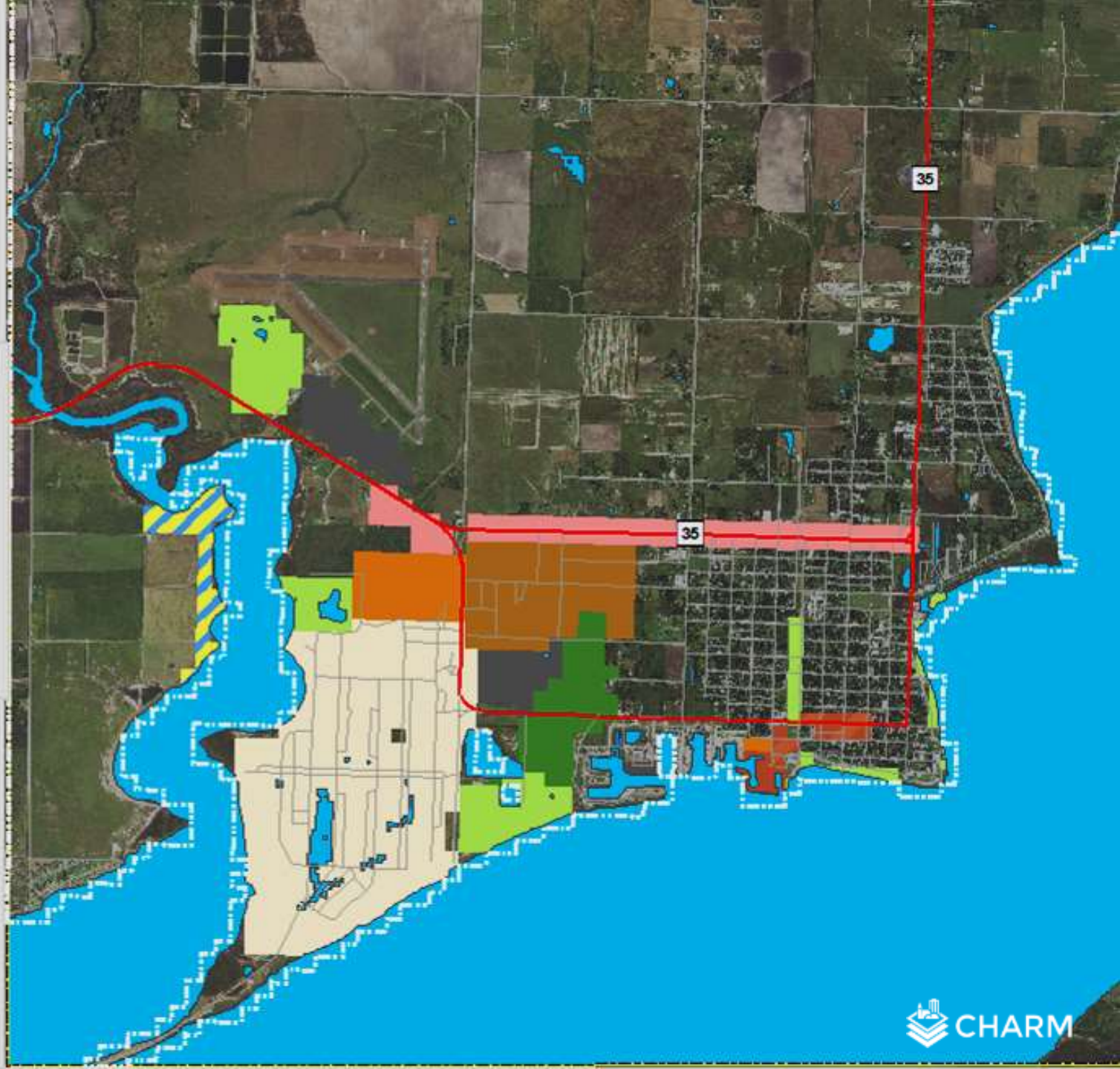
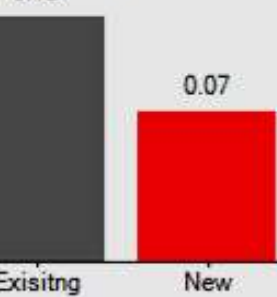
0 Year Flood Zone

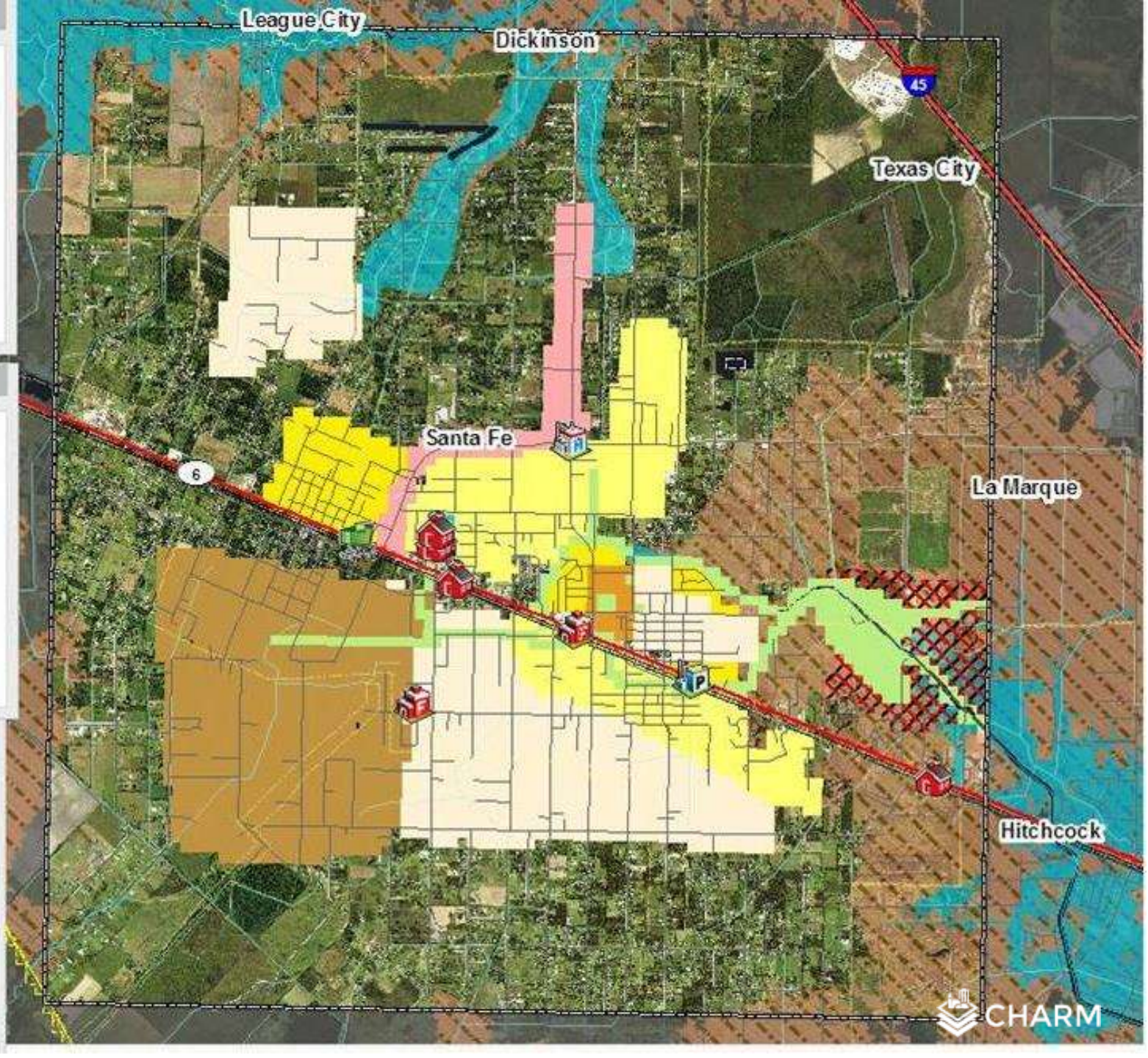
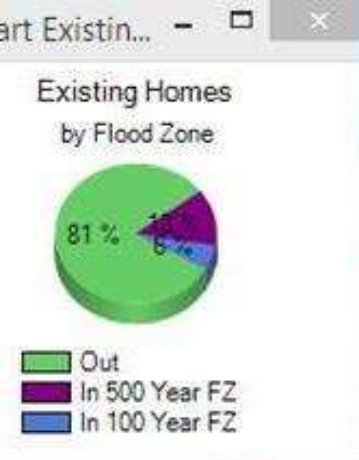


us Surface ...

us Surface Cover

res Per Capita



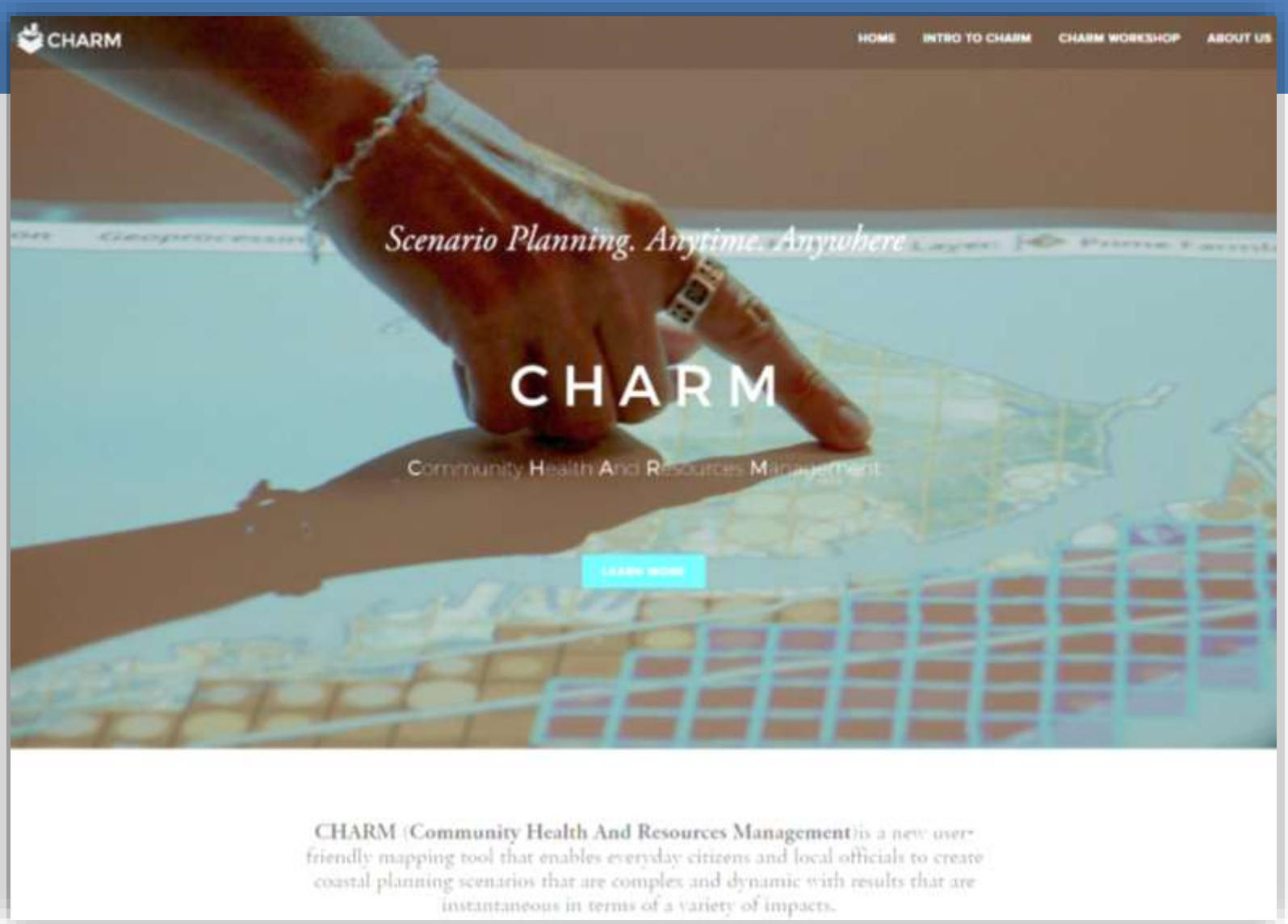


A photograph of a table covered with a red cloth, displaying numerous workshop cards and stacks of materials. The cards are arranged in rows, each featuring a photo of a person and text. In the background, there are stacks of papers and a red bag.

2016-2017 Workshop Campaign by the Numbers

- ✓ 9 workshops
- ✓ 7 counties
- ✓ 25 models for 25 TX communities
- ✓ Using the latest RiskMAP data
- ✓ 290 attendees
- ✓ 600+ contacts in outreach

CommunityCHARM.org



CHARM

HOME INTRO TO CHARM CHARM WORKSHOP ABOUT US

Scenario Planning. Anytime. Anywhere

CHARM

Community Health And Resources Management

[LEARN MORE](#)

CHARM (Community Health And Resources Management) is a new user-friendly mapping tool that enables everyday citizens and local officials to create coastal planning scenarios that are complex and dynamic with results that are instantaneous in terms of a variety of impacts.



CommunityCHARM.org
TCWP.tamu.edu

Director, Dr. John Jacob, PhD.
jjacob@tamu.edu

Steven Mikulencak, AICP
Planning Team Lead & Project Manager
smikulencak@tamu.edu



FEMA

TEXAS A&M
AGRILIFE
EXTENSION



TEXAS COASTAL WATERSHED
P R O G R A M