Municipal Perspective: Developing data and maps to support planning and preparing for coastal resiliency

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AGENDA

- Coastal Resiliency and our existing Building Zone Regulations
- Mapping projects to support planning for a resilient coastal community
- Coastal Resiliency and our proposed Building Zone Regulations



EXISTING ZONING REGULATIONS

Freeboard

• 1' above BFE

Substantial Improvement

• Start counting cumulative costs at the date of the FIRM that rendered the structure non-compliant (1986, 1999, 2013)



HOW RESILIENT ARE WE?

- Question
 - How many structures in flood zones have first floor elevations below the base flood elevations?
- Methodology
- Source



RESULTS

Structures in AE and VE Flood Zones	
With lowest floor <u>below</u> base flood elevation	107
With lowest floor <u>above</u> the base flood elevation	26



CONCLUSIONS FROM THE STUDY OF ELEVATION CERTIFICATES

- We don't have as many elevation certificates as we thought
- From the data we do have, we could be more resilient
- There is real value in maintaining the dataset as that theoretically is an effective gauge of resiliency



AFTER SUPERSTORM SANDY







Town of Greenwich, CT



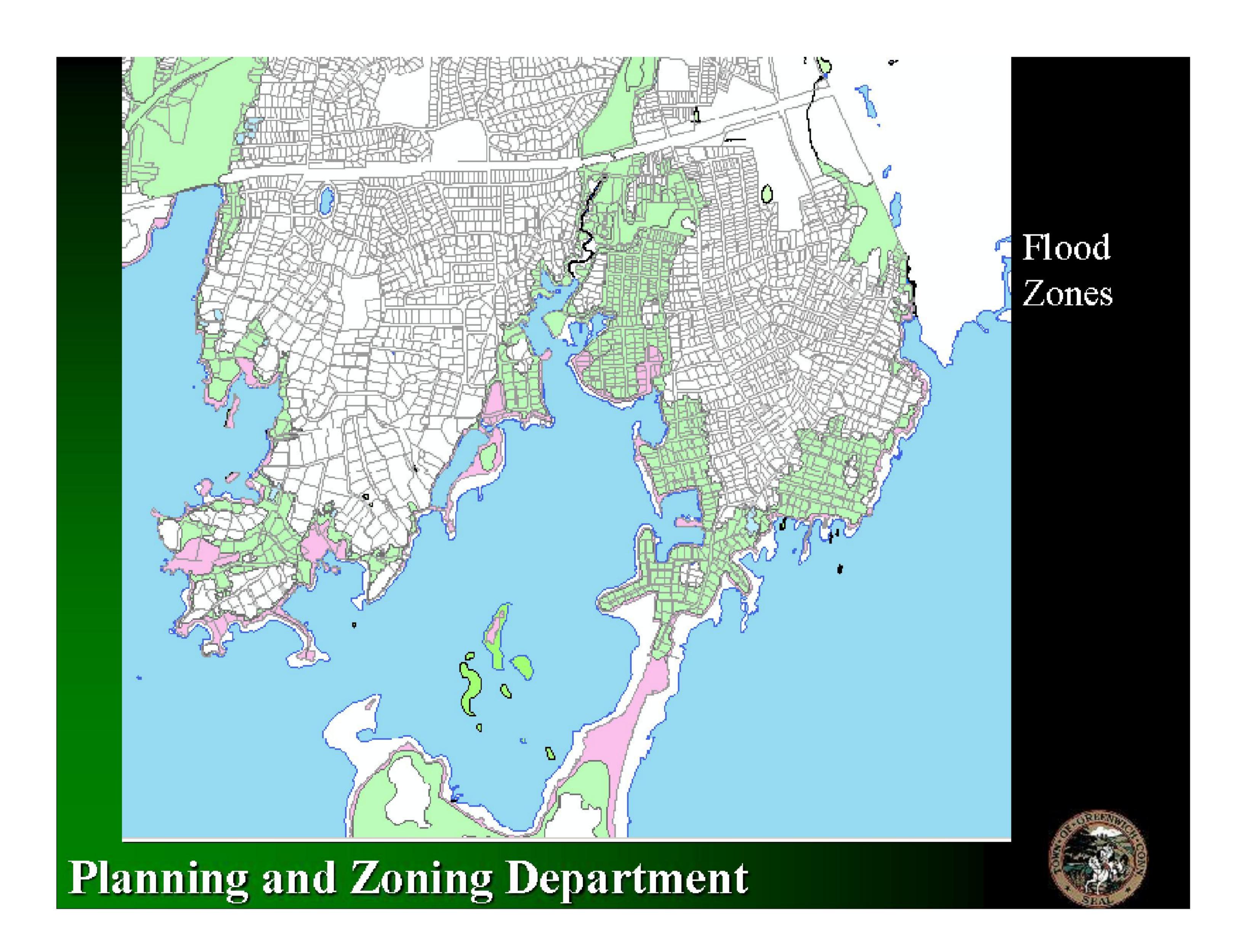


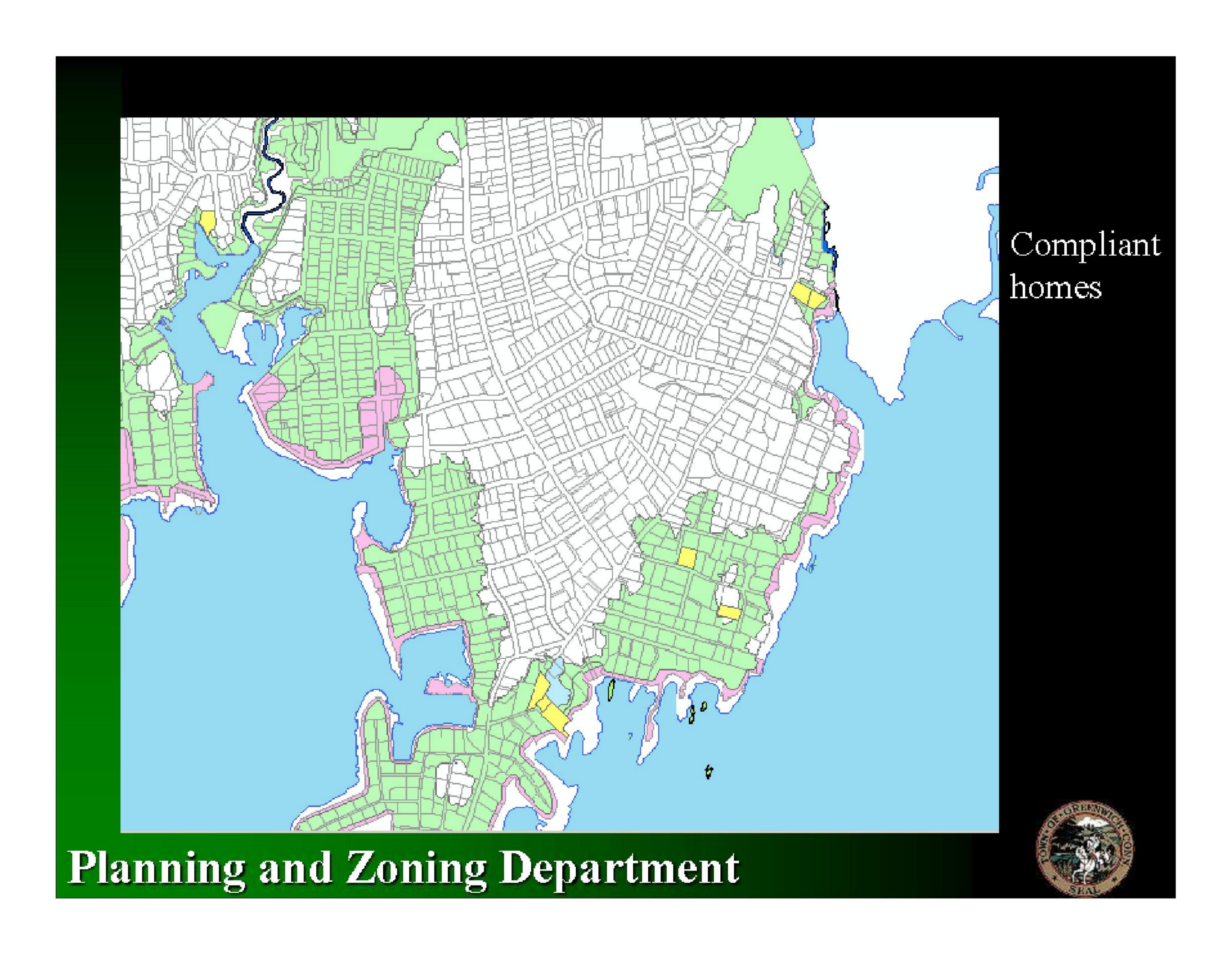
Town of Greenwich, CT



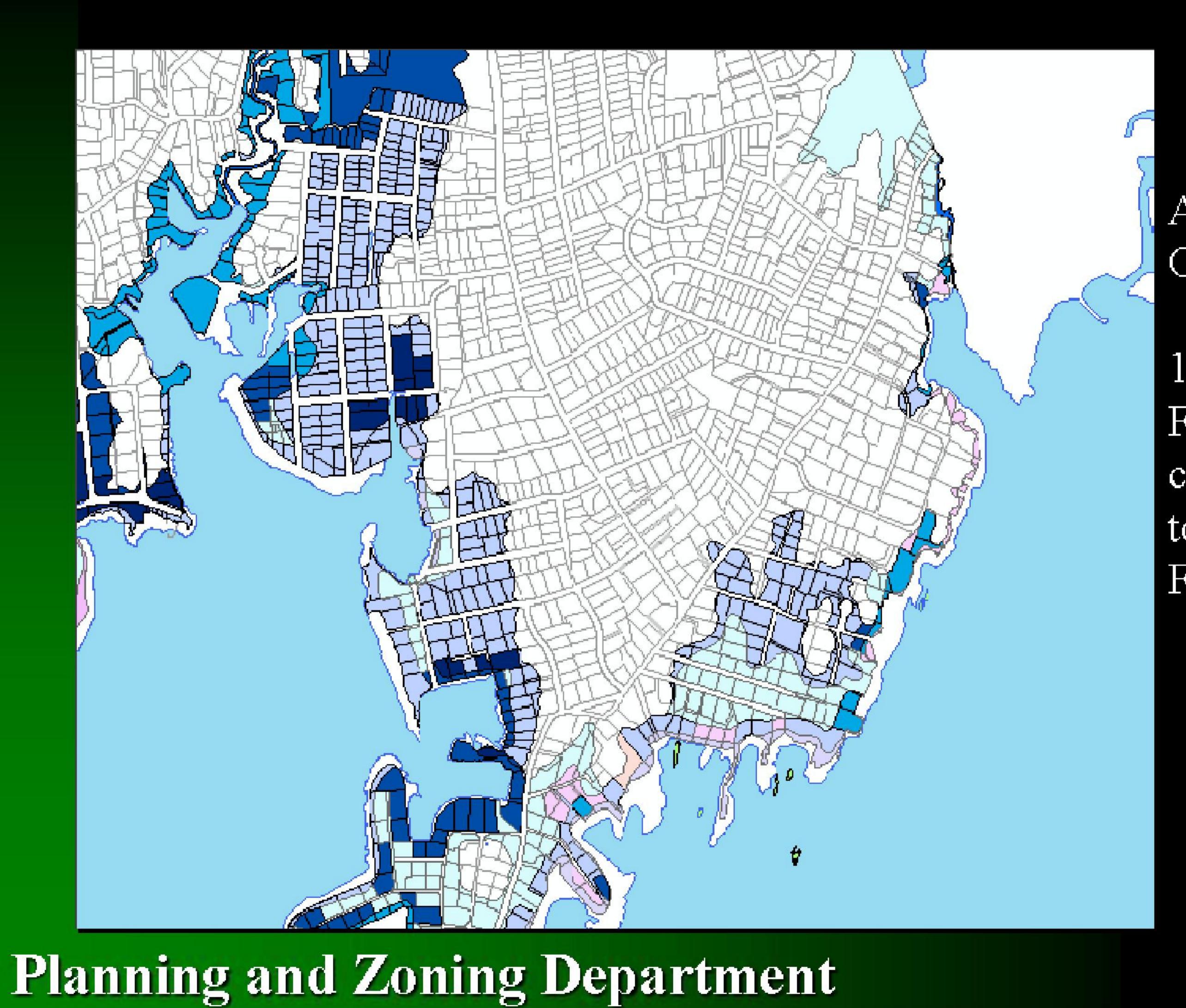








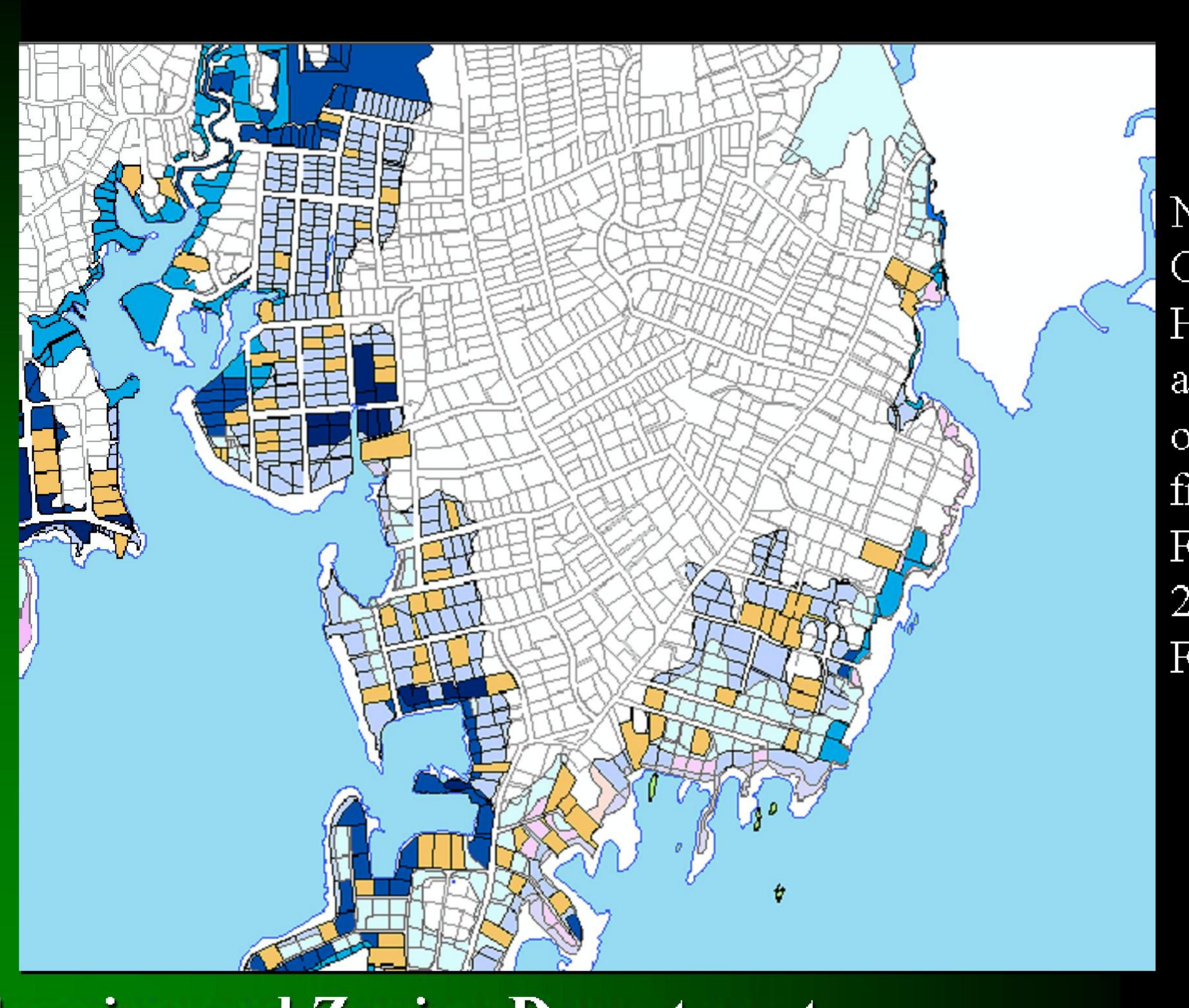




Areas of Change —

1999 FIRM compared to 2013 FIRM

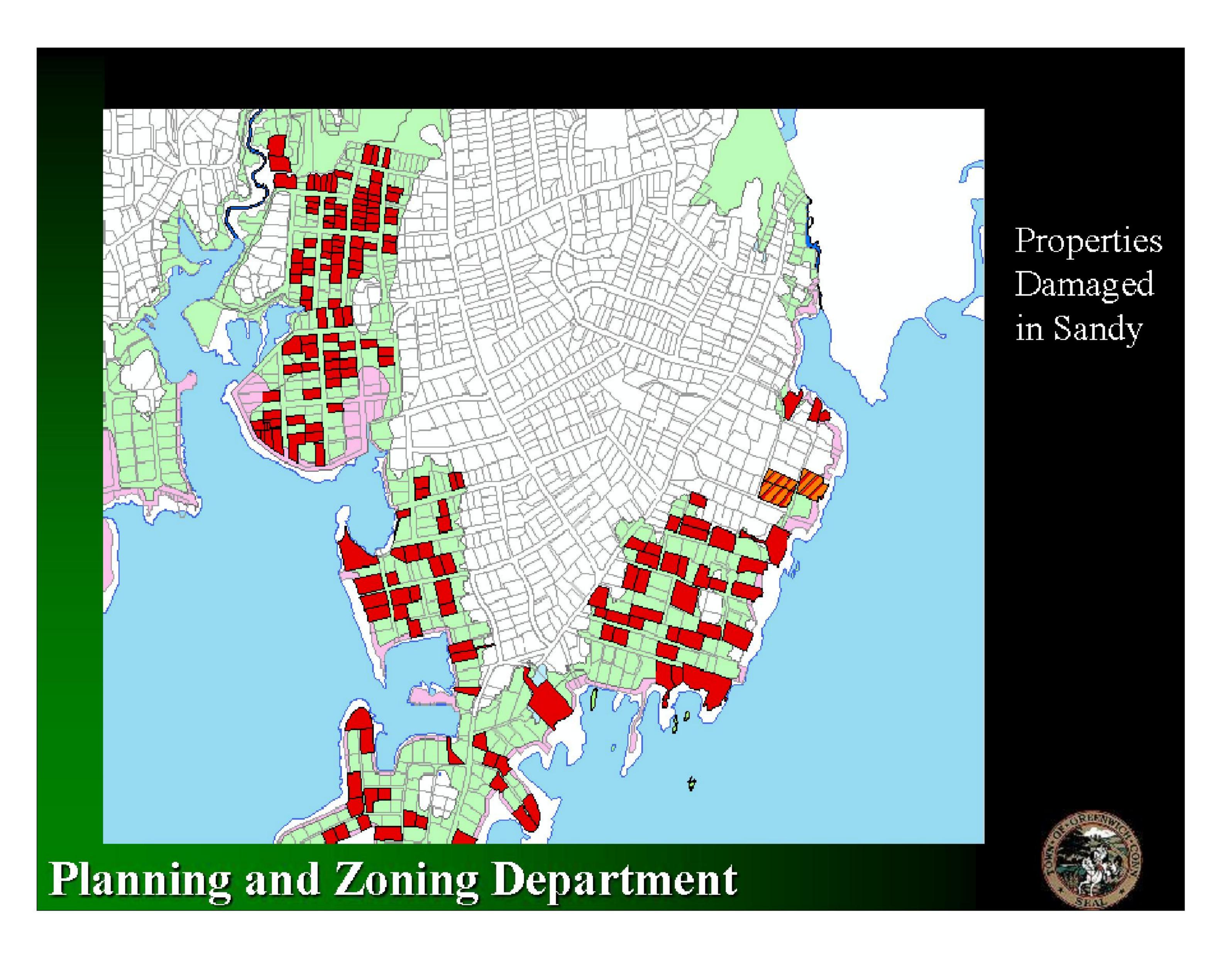


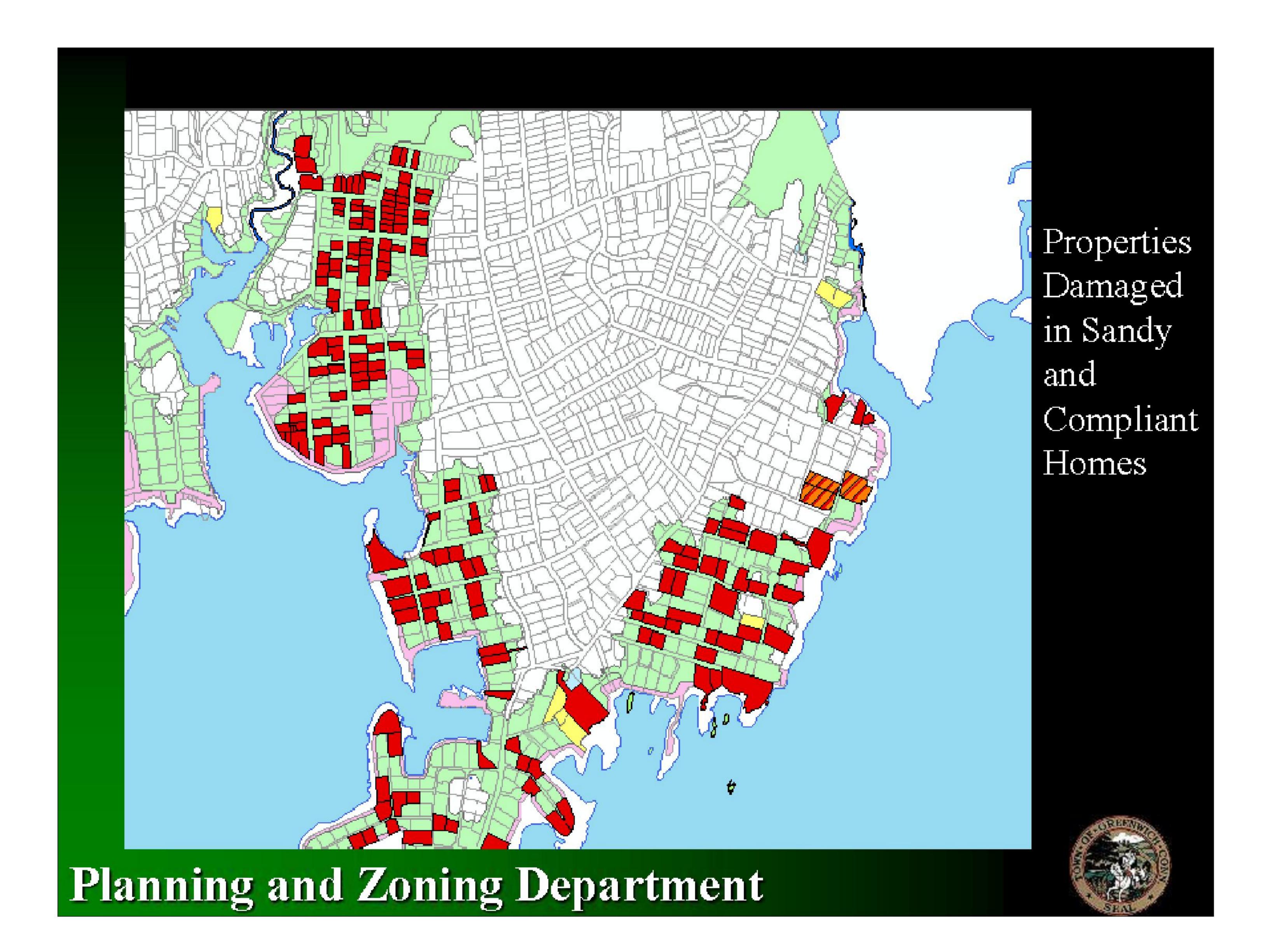


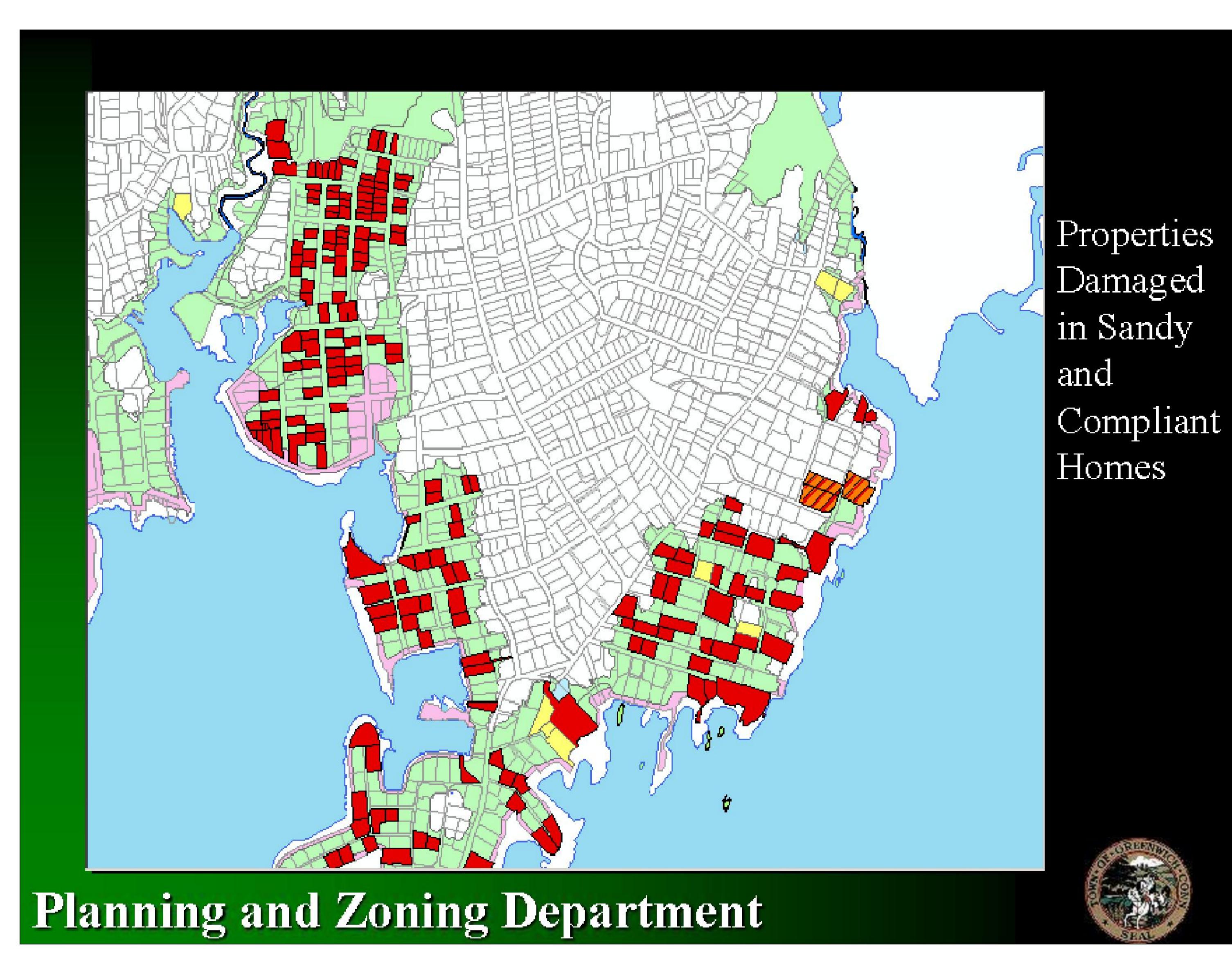
Non-Compliant
Homes
and Areas
of Change
from 1999
FIRM to
2013
FIRM

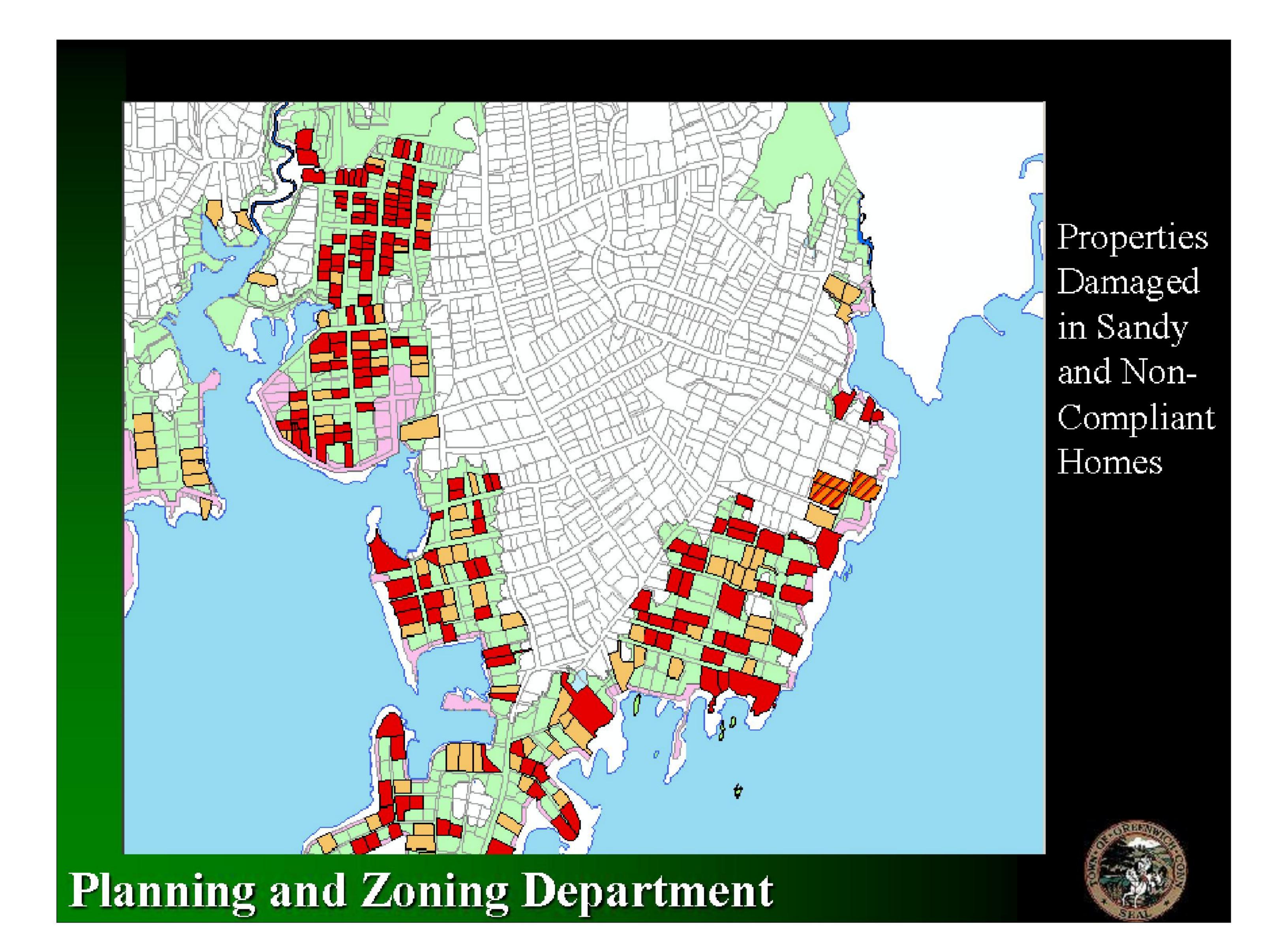


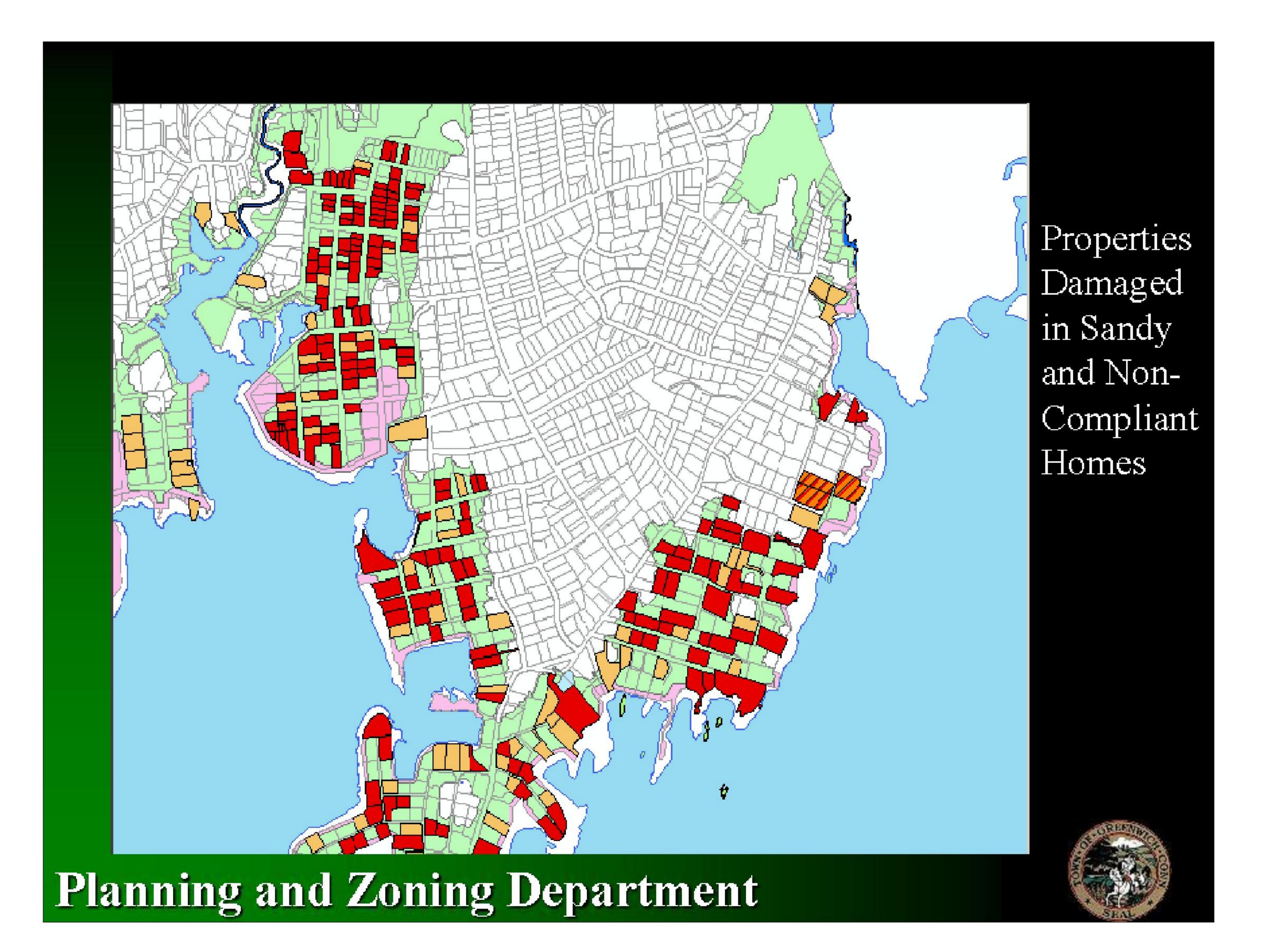


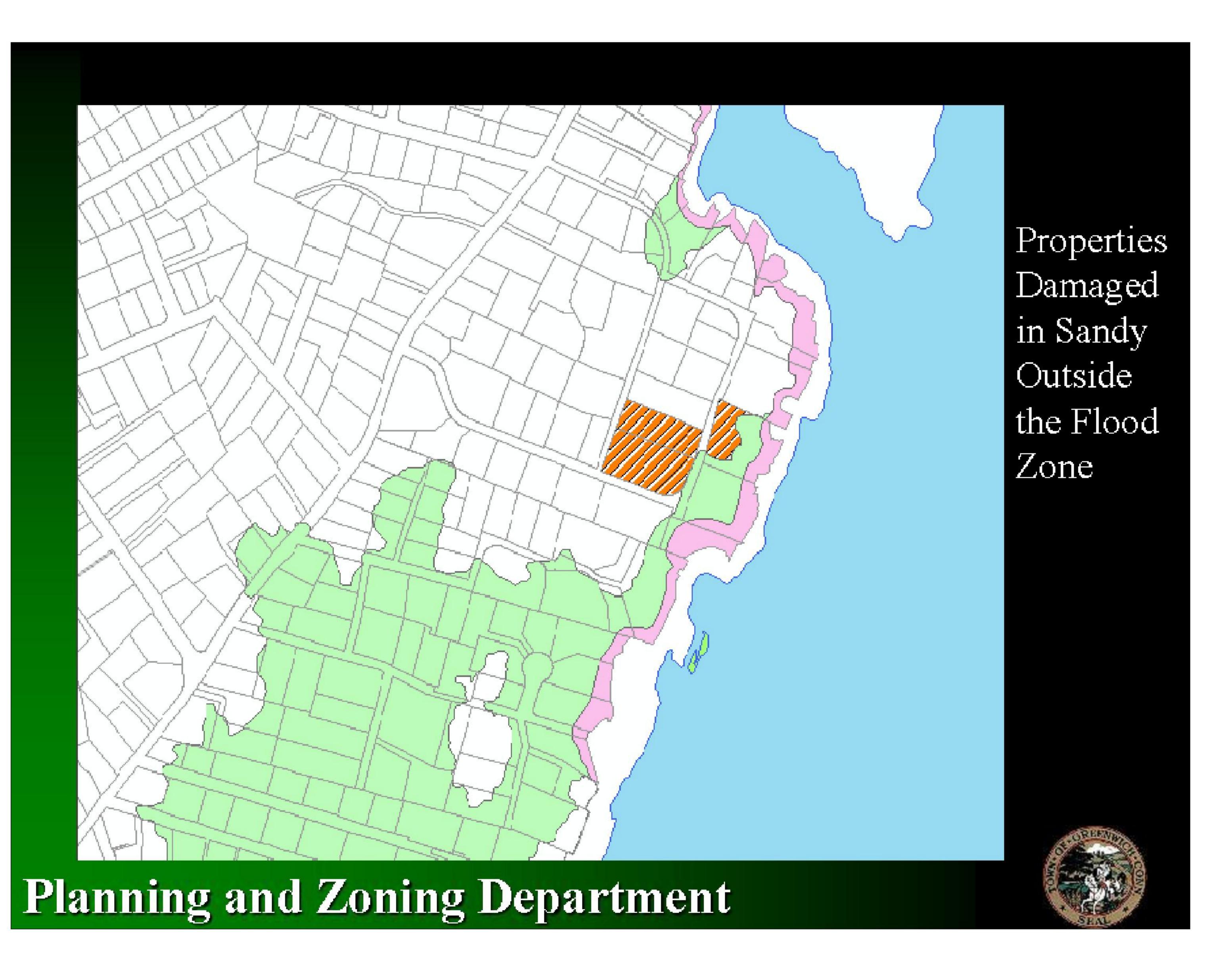














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CONCLUSION

Maps have been instrumental in supporting and preparing for coastal resiliency:

- Identifying focus areas
- Relaying information
- Analyzing data and quantifying a problem

