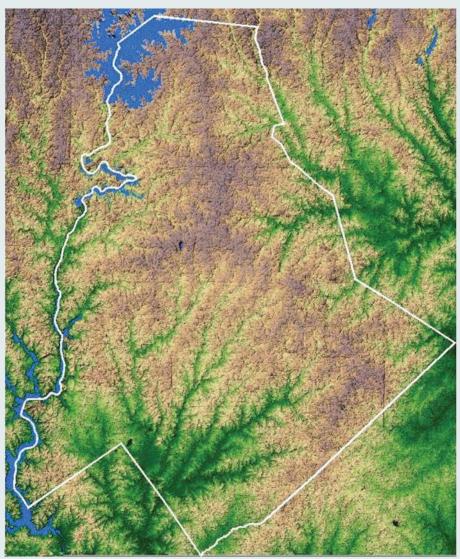




• Five Key Principles to Consider

- Hazard Integration
- Role of Local Government
- Pre-disaster Recovery Plan
- Locally Funded Opportunities
- Building Greater Resilience
- Implementation Examples
 - Guidance Document
 - Strategic Acquisitions

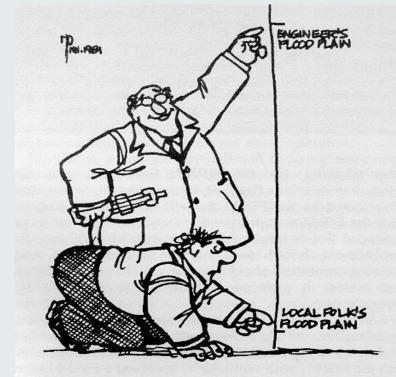
Floodplain Statistics:



- 320 miles of streams
- 4000+ structures in the floodplain
- Average Precipitation: 40 inches per year
- Record Maximum Precipitation: 22 inches in 24 hours (1916 estimate)
- Probable Maximum
 Precipitation: About 33
 inches *Smart Growth, 2011*



- Communities need to integrate natural hazards and mitigation into comprehensive land use planning
 - Floodplain maps
 - Other Hazards
 - Minimize adverse impacts from development



Role of Local Government

- Local Governments are at the forefront of post-disaster smart growth opportunities
 - Land use decisions
 - Regulations
 - Capital Improvements



Pre-disaster Recovery Plan

Focus on pre-disaster planning for rebuilding AND mitigating future risk

- Greater Resources
- More political willpower
- Solid public policy
- Cost savings





- Federal and state aid should not be the only opportunity for communities to implement smart growth into recovery
 - Timing of FEMA money
 - Non-disaster declarations
 - Develop a financial strategy to implement smart growth in events without assistance

Building Greater Resilience

- Identify potential for building greater resilience to future flood events within the long-term recovery process
 - Evaluate existing flood hazard mitigation information,
 - Develop a hazard mitigation plan,
 - Identify projects and programs that incorporate mitigation principals.



Flood Guidance Document

• Objectives:

- Prevent or reduce loss of life and damage caused by floods
- Preserve the natural and beneficial functions of floodplains

Consider Smart Growth Strategies
Use as a Business Plan

Smart Growth, 2011





- Over two years and two floods
- Two symposiums and numerous workshops focused on problem statements and public engagement
- Incorporated sustainable mulitobjective principles (water quality, greenways, open space, etc.)
- Timing (funding, flood mapping, etc.)

Guidance Document Strategies

- New Development
- Flood Warning/Response
- Drainage System Maintenance
- Public Information
- Interagency Coordination
- Hazard Mitigation Planning

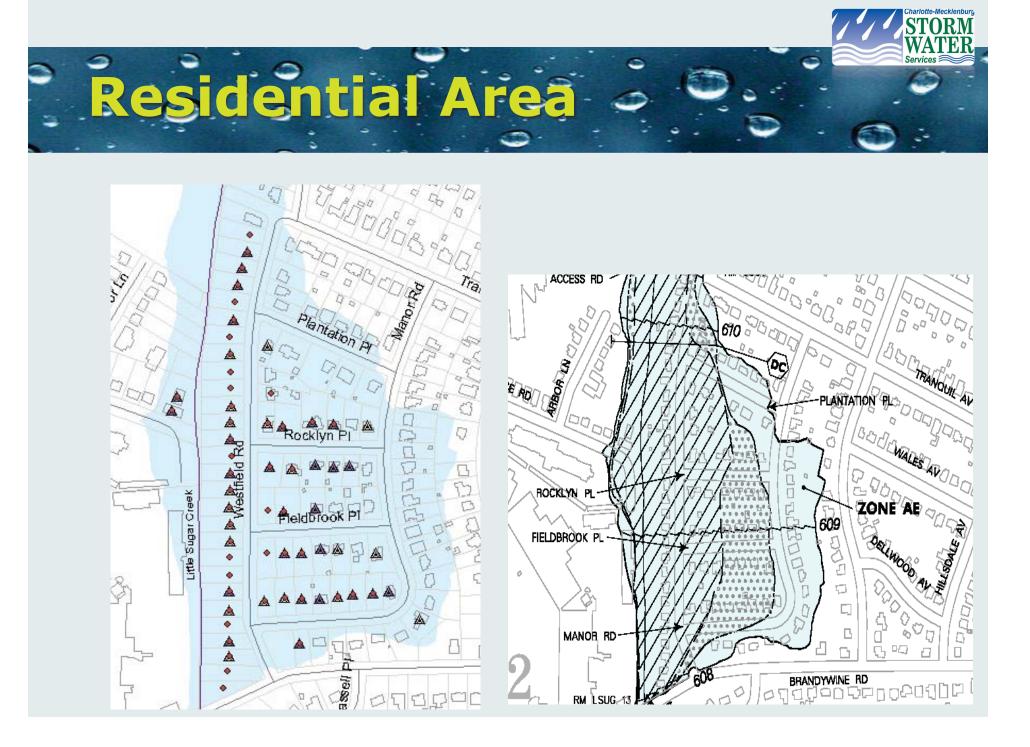




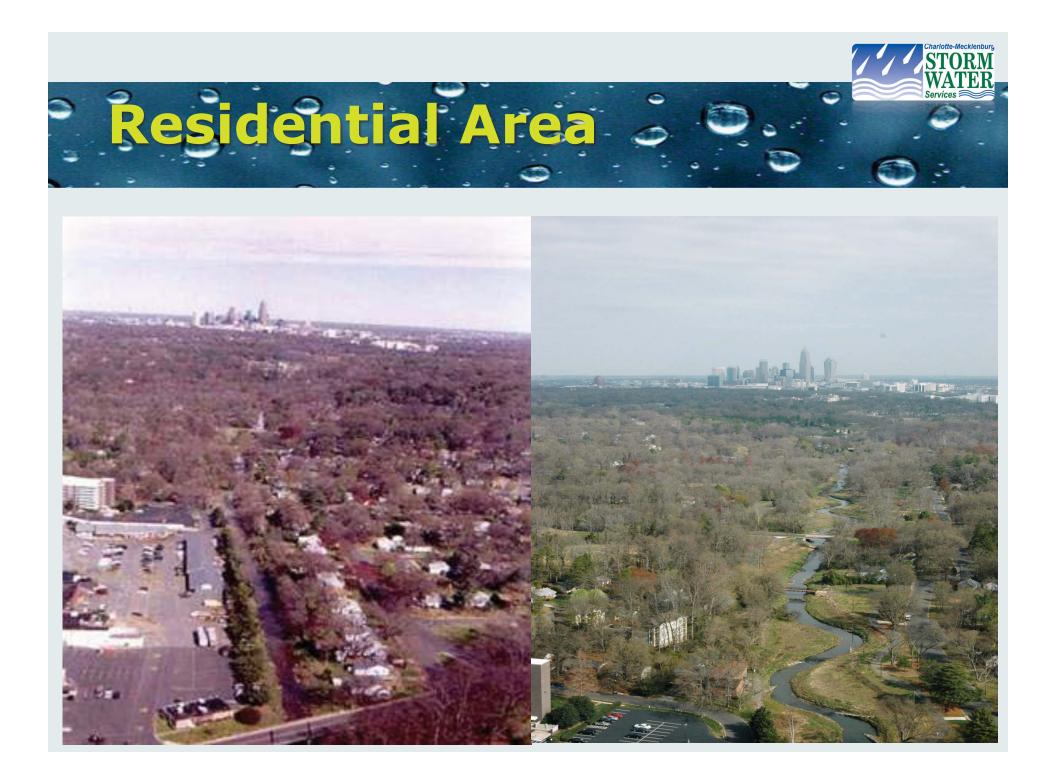
Identify High Risk Properties/Areas

- Redevelopment
- Open space
- Connectivity
- Recreation
- STORAGE OF FLOODWATER











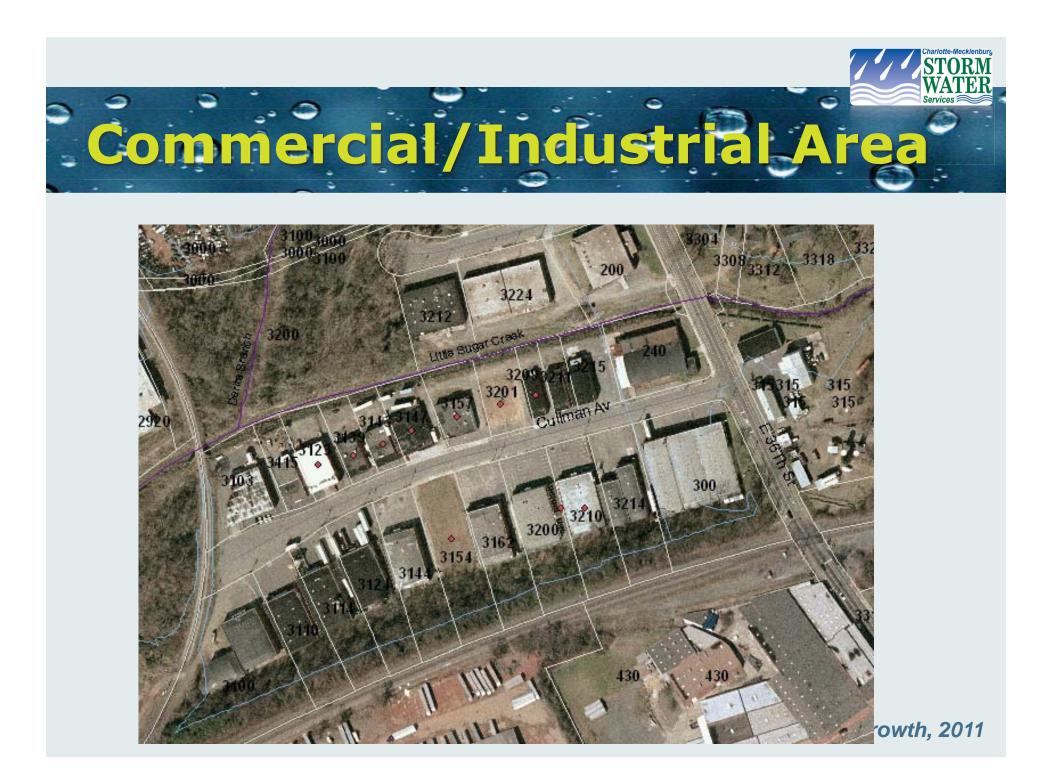
Commercial/Industrial Area

Cullman Avenue Buyout

- 12 Commercial Properties
- Federal Share: \$2,096,000
- Local Share: \$704,000
- Total Project Costs: \$2,800,000
- More Planned







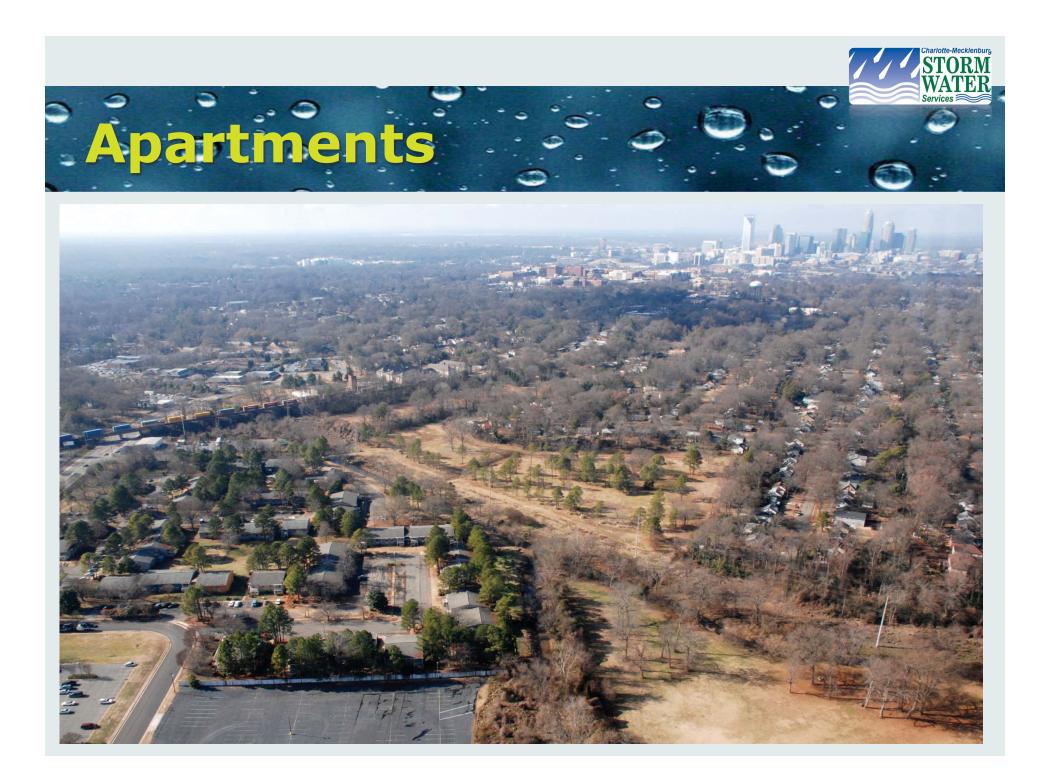




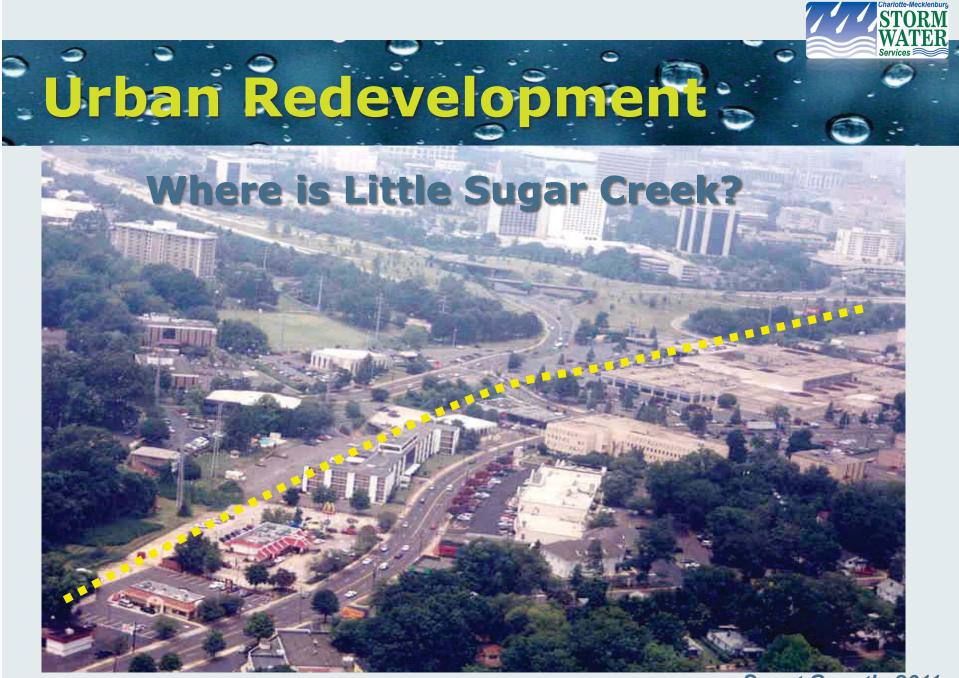




Charlotte-Mecklenburg STORM WATER Services







Smart Growth, 2011

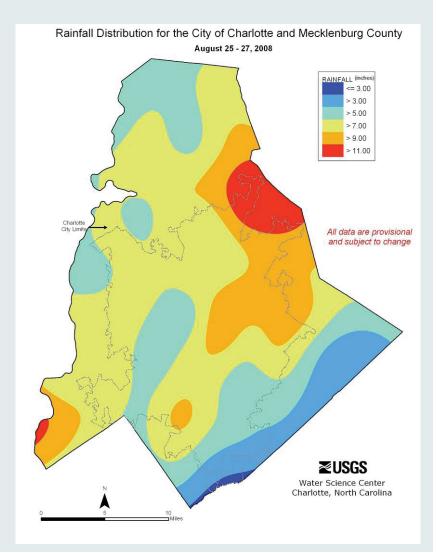


Smart Growth, 2011





- Remnants of TS Fay
- Prolonged rainfall over 24 – 48 hours
- Intense rainfall in parts of County between 12:00 AM – 6:00 AM on August 27
- No Federal Disaster

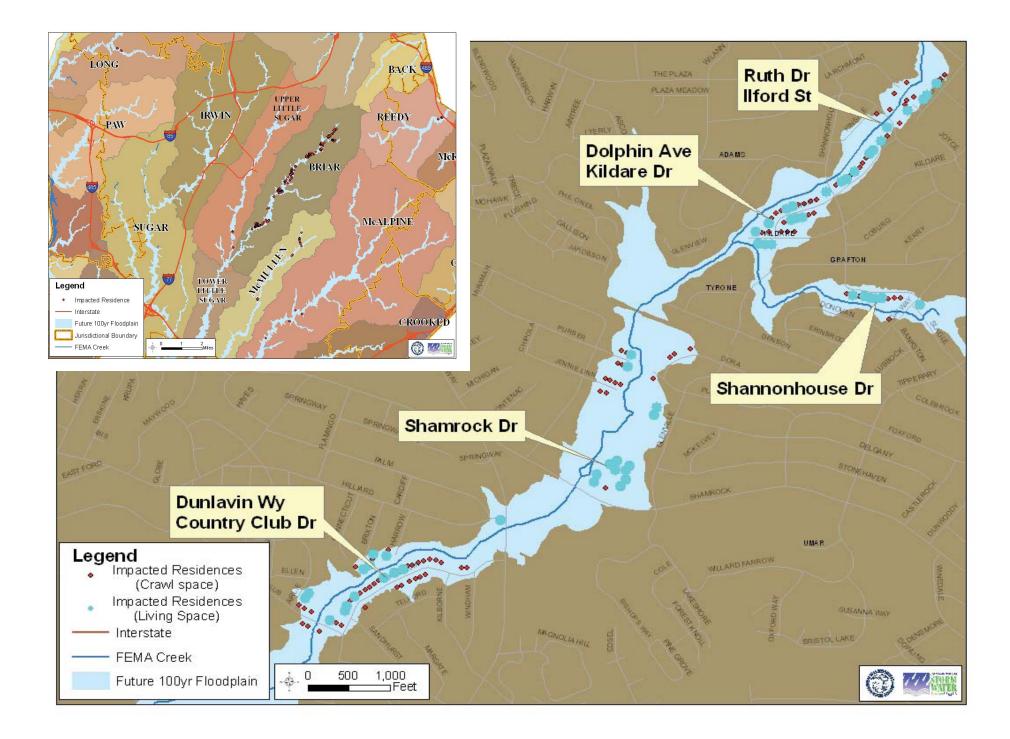




SUMMARY of Impacted Floodplain Structures

- 600 Total Residences flooded
- 400 Residences with flooding within living space
- Flood depths from 1" 58"
- 100's of Vehicles severely flooded
- Additional 125 structures would have flooded without prior mitigation







- \$4M in "Rainy Day Funds", \$2M in Park Funds, \$200k in Sewer Funds
- Opportunity:
 - Reduce future flood losses
 - Acquire for less than pre-flood market value
 - Provide flood victims an option
 - Provide the County with contiguous land





Quick Buy Overview

- BOCC adopted Resolution October 2008
- Eligibility Criteria:
 - Flooding in living space and in Floodway or
 - Located along a Greenway priority area
- Priority to contiguous, public land
- County computes offers based on Fair Market value before the flood, minus damages



Former KinderCare on Eastway @ Briar

Smart Growth, 2011



- 50 Properties Acquired
 - Offers within 3-4 months after flood
 - 2 non-participants
 - Avoided about 15 Elevated homes in Floodway
 - 25 acres of additional greenway or Open Space





Years 2000 - 2010

Acquisition Results

- 250+ buildings removed from the floodplain (90% participate)
- 140 +/- acres of deeded public open space
- Over 400
 families/businesses
 impacted
- No Federally Declared
 Flood Disasters



