



# **Steele Creek Area Plan**

Citizen Advisory Group Meeting Charlotte Police and Fire Training Academy

> September 17, 2009 6:00 p.m.



# **Meeting Agenda**

- **1. Welcome and Introductions**
- 2. Revised Vision Statement
- 3. Natural Environment Discussion (continued)
- 4. Natural Environment Policies
- 5. Wrap-up and Next Steps













#### **Option 1**

The vision for the Steele Creek area is to create a unique and sustainable community that is a great place to live, work, and recreate, while preserving the community's character by incorporating natural and historic features into new development. The community will implement this vision through the following actions:

- Protecting the Catawba River, McDowell Nature Preserve, natural features, and historic places;
- Providing a balanced mixture of land uses with enhanced public facilities that include quality schools;
- Developing a safe, accessible and efficient transportation system for pedestrians, bicyclists, transit users, and motorists;
- Encouraging community design that recognizes the natural environment; and
- Creating an interconnected network of parks, greenways, and open space amenities.





### NATURAL ENVIRONMENT



## **Natural Environment**

# Opportunities

 Protection of open space

- Constraints
- Loss of open space

- Preservation of tree canopy
- Protection of Catawba River and watershed(s)
- Pollution of the Catawba River
- Air Quality



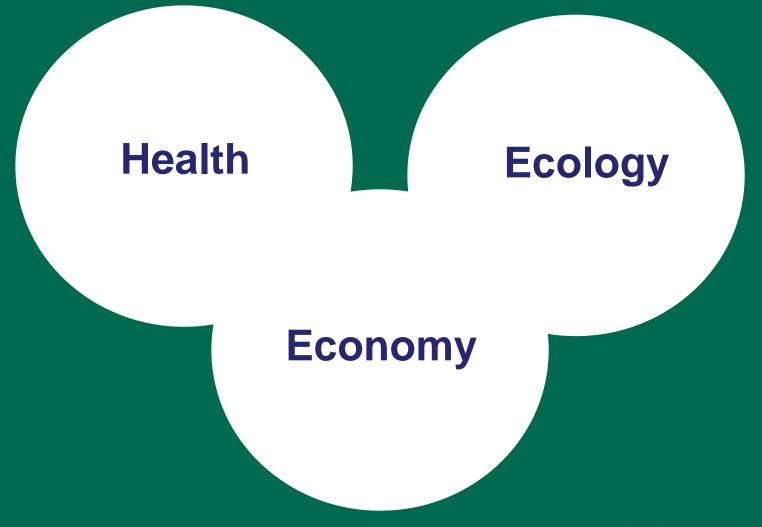


#### AIR QUALITY

# Land Use and Air Quality: "Developing" Healthy Air for Our Region

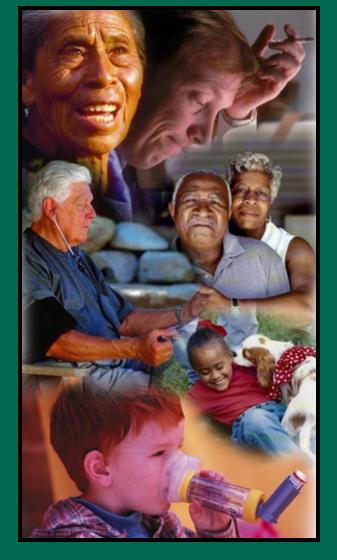


#### **Air Pollution Affects Us ALL**





# Some groups are more likely to be affected



People with heart or lung disease
 Conditions make them vulnerable

#### • Older adults

 Greater prevalence of heart and lung disease

#### • Children

- More likely to be active
- Breathe more air per pound
- Bodies still developing



#### 2004: Mecklenburg County **Designated Non-Attainment**

SA DEDAY, APRIL 10, 2004 . . .

#### FROM PAGE ONE

# Charlotte region slapped for air quality

#### OZOBE from 1A

nomic Development Commission. "It will certainly make linchastries.) less likely to lock at an area ... just because of the time to permit and the ipantions consurrend."

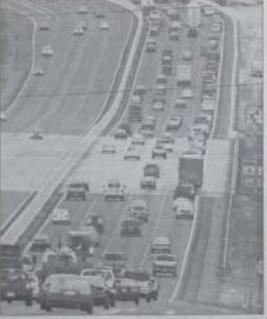
York Goanty residents living in the Fort Mill and Rock Hill orean will soon need to take their care and trucks in for regular emissiom testing. York would become the first S.C. county to mandate the tests, which Charlotte began more than two decades ago.

Charlotte Mayor Put McCoory and the S.C. politicians had vigoreasily lobbied EPA over whether to include York.

The country's occurs readings ineri the standard. But name than \$0,000 vehicles a day contensio into Macklenburg from York County, contributing to Charhotte's pollution.

Viek County Manager Al Givene said he was glad part of the county would be left out. But But sectorizes that, for areas on the list, the label could scare away Insultantion.

"B's certainly a disappoint-



CALINALLAND , LINE FUL PARTY Some York Casardy commuters may have to have their vehicle erminators texted, for the first time, because of the region's secon

#### What Happens Next

Rane 15: Cittorio designationes Rate 2006 Countries submit

Jame 2007C DOINT Area 2000 Cloughtoni Kir

If the counties fail, federal highway and transit money for rightof-way acquisition or construction for which bids haven't been let could be withheld.

At potential risk is \$6 billion. the total cost of highwar and tranait construction projects in the region over the next two decades, the Charlotte Department of Transportation says. Mecklenburg's outerbelt and repúd-transit construction could be affected, said Norm Steinman, CDOT's manages of planning and design.

Atlanta ran aloul of conformity in the late 1990s, when environmental groups filed a series of

#### FOR POOR AIR QUALITY

#### Nearly 500 counties receive EPA citations

THE CHARLOTTE OFFICENCER |

#### HYP ROBERT FEBRUARY Interlated Press.

manufactory - Nearly 503 counties, mostly in California and the samers third of the country, were clied Thursday as having ices much smog-cassing pollution.)

Despite having some of the toughest air pollution requirements, California still has the woest air, the EPA said.

The Los Angeles basin was designated as having severe air pollution, the only one in the category. The area has until 2021 to come into compliance with it difficult to eventually must the lickeral course standard.

Three California regions -Riverside County, San Josephia Valley and Sacramento - were listed with sectors pollution, the fourth-worst designation, and given until 2013 to comply.

Other areas with marginal or most the air standards. moderate pollution problems

#### States That Meet Ozone Standard

www.charlotteress

Washington and Wysereng,

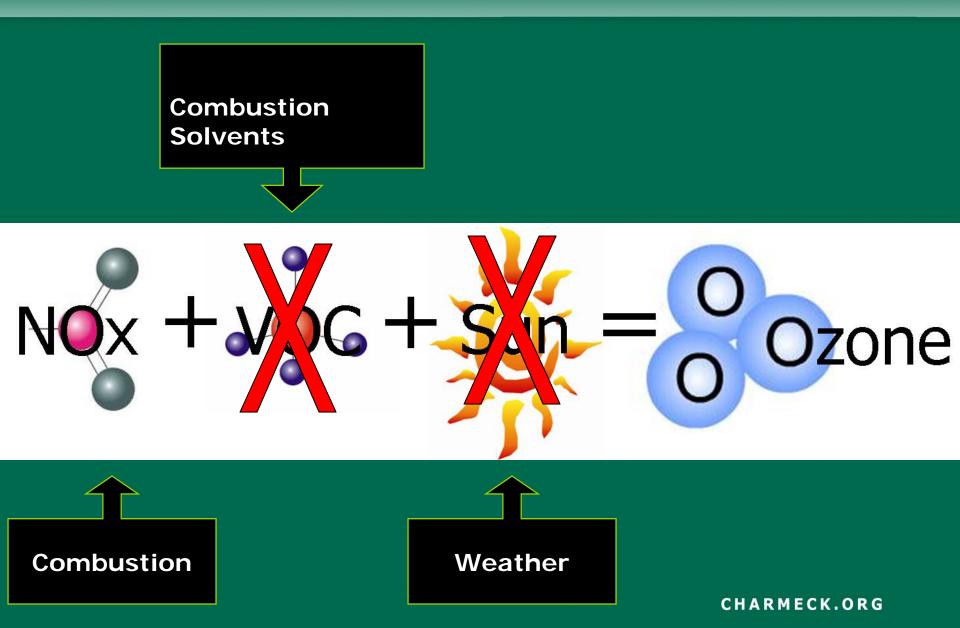
of cleaner-borning gawillast.

"Many communities will first such standastic without jeopardiring local economic growth," said Jeffrey Marks of the National Association of Manufacturers. He said more than half of the country's manufacturing caparity is in areas that do not

Some covirontantalists and

We exceed federal health standards for ozone too frequently.



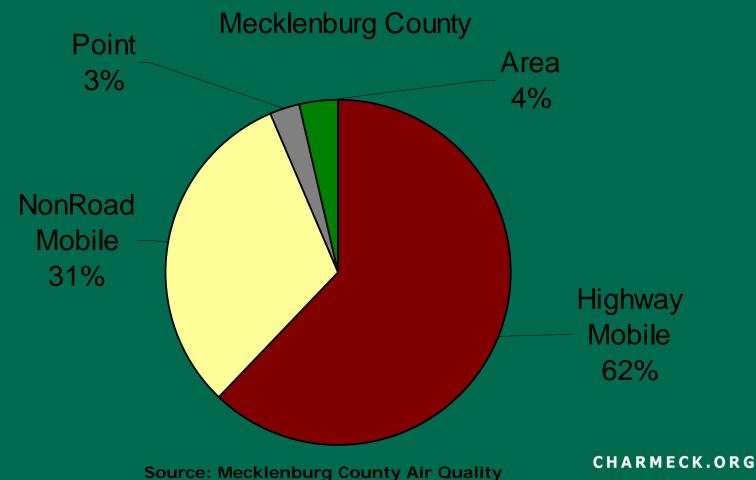




Air Quality

## Our NOx comes mostly from vehicles

# **2006 NOx Emissions**







### Vehicle Miles Traveled (VMT)

#### **NOx emissions**

Ozone

# Improving Air Quality = Reducing VMT



# Getting people out of their cars is TOUGH!





## Air Quality

# Land-Use Planning Can Help Reduce VMT (Get People Out Of Their Cars!)





# Ways to help people get out of their cars

# Provide Alternative Methods of Traveling

- Sidewalks
- Bicycle Lanes
- Close access to transit stations

# Design Well-connected Roads

• Promote Multi-Use Development

- Convenient and close shopping, restaurants, and parks
- Live, Work and Play



# Air Quality Summary

#### • Ground-level Ozone:

- Biggest air pollution problem in Mecklenburg

#### • Mobile Sources:

Largest contributor of ozone-forming pollution

#### • Land Use Planning:

- Help people get out of their Cars



**Information Sources** 

www.AirNow.gov

#### www.EnviroFlash.info

#### www.AirAware.org

#### http://AirQuality.CharMeck.org



AIr

# A Local Service and Regulatory Program Helping you breathe easy...for life

Quality

### http://airquality.charmeck.org 704-336-5430 CharMeck311

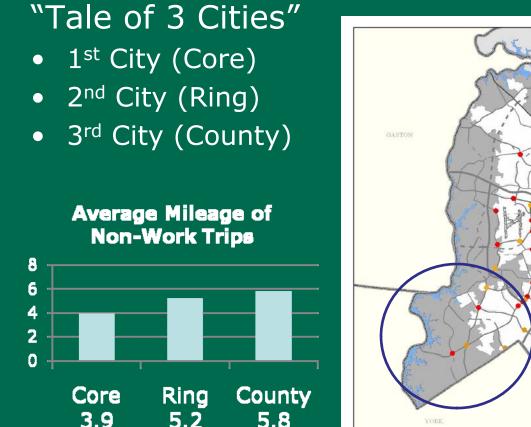


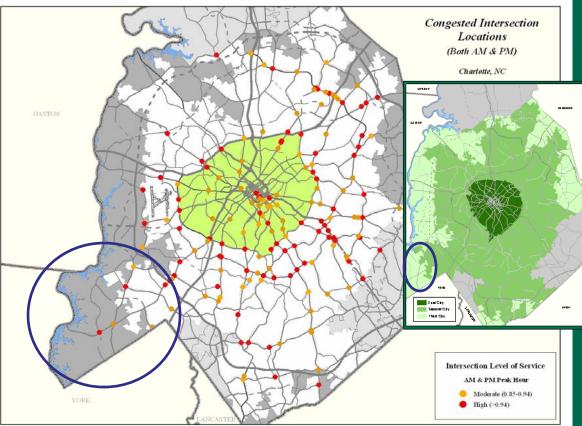


#### AIR QUALITY - TRANSPORTATION



## Air Quality - Transportation





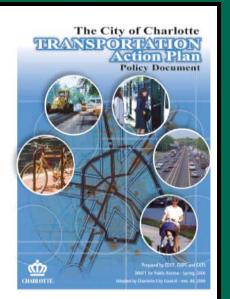
Residents in this area travel almost 50% further for basic trips...this negatively impacts air quality and increases congestion.

# CITY OF CHARLOTTE

# Air Quality - Transportation

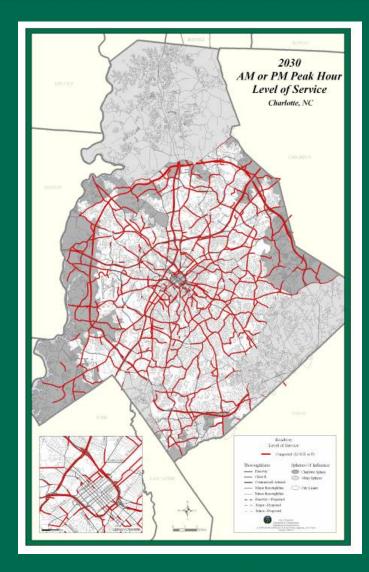
#### **Transportation Goals**

- Reduce congestion by improving roads
- Improve Air Quality
- Reduce Vehicle Miles of Travel (VMT)
- Increase transit, walking, bicycling
- Improve connectivity

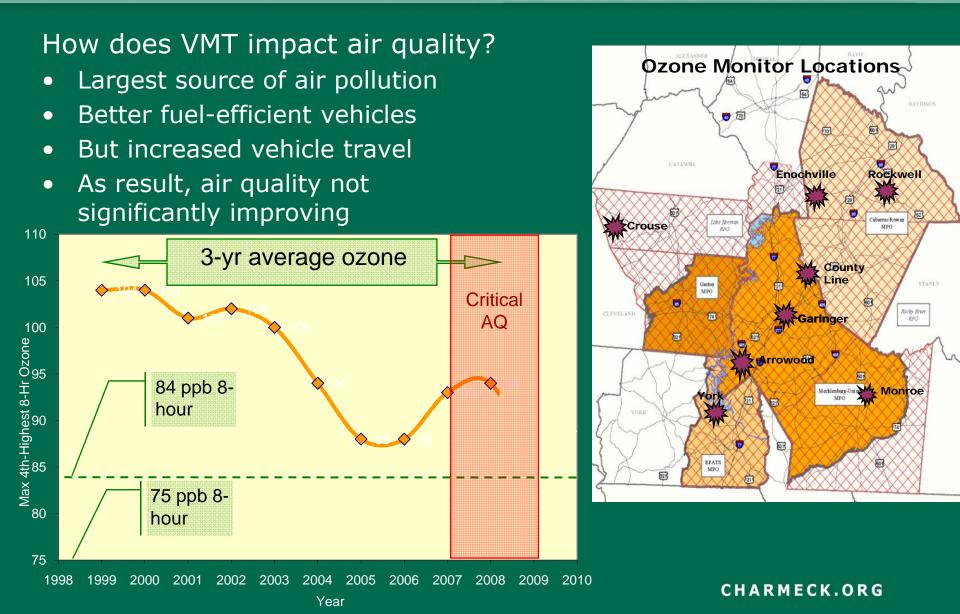


% of thoroughfares operating at LOS E/F in the peak hour:

- 29% in 2005
- 34% in 2010
- 47% in 2020
- 64% in 2030



# Air Quality - Transportation



# CITY OF CHARLOTTE

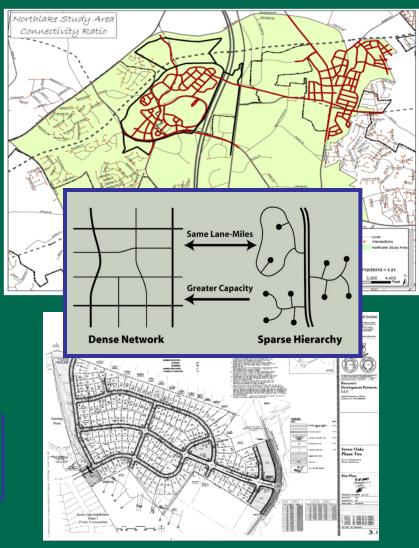
# Air Quality - Transportation

### Importance of Connectivity

- Travel choices and route options
- Shorter trips (reduced VMT)
- Reduces need to widen intersections and thoroughfares
- Connected streets make it easier to walk, cycle and use transit



Connectivity IndexCoreRingStudy1.451.191.16







#### Park and Recreation



## **Park & Recreation Existing Facilities**

### Berewick Park

Winget Park

✤ Ramblewood





- Joint-Use Rec. Center w/ CMS
- Joint-Use Playgrounds
- Athletic Field Areas (TBC 2010)

# CITY OF CHARLOTTE Park & Recreation Existing Facilities



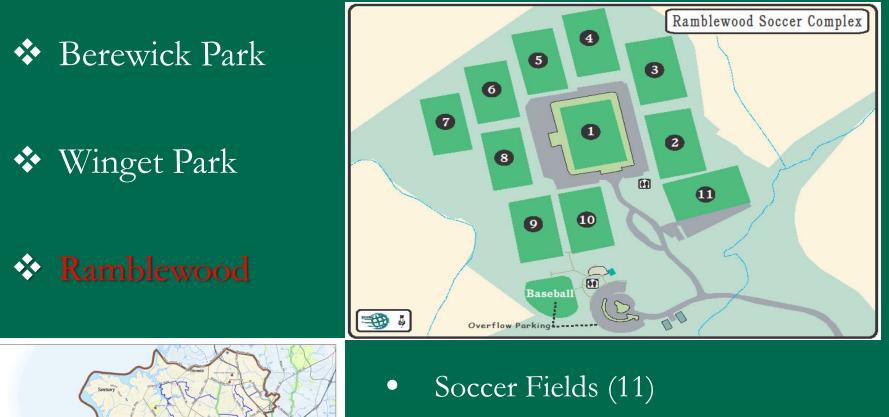
- \* Winget Park
- ✤ Ramblewood





- Soccer Fields (4)
  - Baseball Field
  - Basketball Courts (3)
- Playground
- Open Space / Trails снакмеск.org

# CITY OF CHARLOTTE Park & Recreation Existing Facilities



- Baseball Field
- Basketball Courts (2)
- Playground

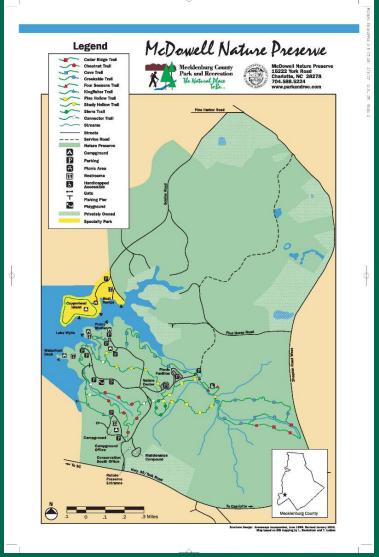
Steele Creek Area Plan

# CITY OF CHARLOTTE Park & Recreation Existing Facilities

### McDowell Nature Preserve

- 1,115 preserved acres
- 150 acre Piedmont Prairie
- 56 Campground Sites
- 7 miles of Hiking Trails
- Nature Center







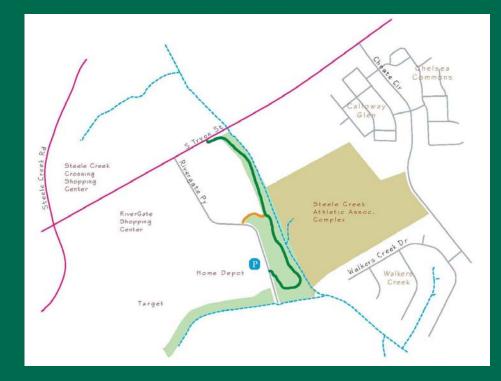
## Park & Recreation Existing Facilities

#### ✤ Walkers Branch Greenway

 <sup>1</sup>/<sub>2</sub> Mile Trail through Rivergate Community

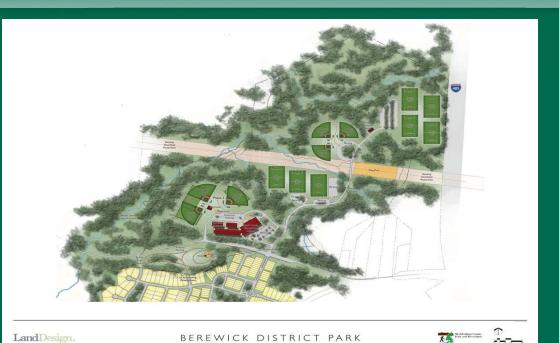






# CITY OF CHARLOTTE Park & Recreation Planned Facilities







- Adopted Master Plan:
  - Soccer Fields (7)
  - Baseball Fields (3)
  - Dog Park
  - Neighborhood Park Component
- Currently unfunded CHARMECK.ORG

# CITY OF CHARLOTTE Park & Recreation Planned Facilities

Berewick Park
Winget Park
Palisades Park
Capps Property





- Adopted Master Plan:
  - Baseball Fields (3)
  - Tennis Courts (up to 8)
  - Trails and picnic areas
  - Protect Schweinitz Sunflower population
- 2008 Funding (\$2m) CHARMECK.ORG

## Y OF CHARLOTTE Park & Recreation <u>Planned</u> Facilities

Berewick Park
Winget Park
Palisades Park
Capps Property





- Proposed Master Plan:
  - Playgrounds & Playfield
  - Picnic Shelter

- <sup>1</sup>/<sub>2</sub> Mile Trail w/ 3 picnic sites
- 2008 Funding (\$300k)
- TBC Fall 2010

# CITY OF CHARLOTTE Park & Recreation Planned Facilities

Berewick Park
Winget Park
Palisades Park
Capps Property





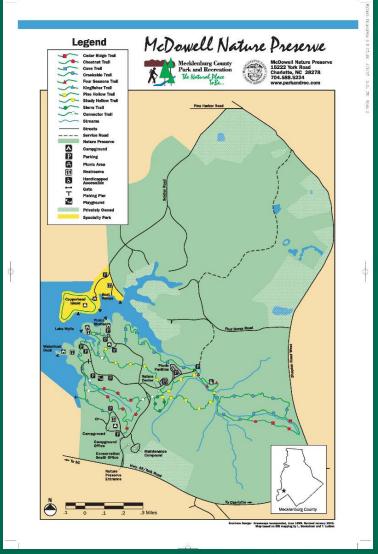
- Master Plan to be drafted
  - 67 acres, heavily wooded, moderate slope
  - Ideally sized for Community Park
- Currently unfunded

# CITY OF CHARLOTTE Park & Recreation <u>Planned</u> Facilities

## McDowell Nature Preserve

- Continue to monitor and identify expansion opportunities
- Apply Management Zones Hierarchical Structure when applicable (level of preservations)







## ■ Park & Recreation <u>Planned</u> Facilities

#### ✤ Walker Branch Greenway

- 2008 Funds (\$1m)
- Extend <sup>1</sup>/<sub>2</sub> Mile





## Park & Recreation <u>Planned</u> Facilities

### Steele Creek Greenway

- Approx 4 mi
- 10+ yr plan





## Park & Recreation <u>Planned</u> Facilities

## Polk Ditch Greenway

• Approx 1.5 mi









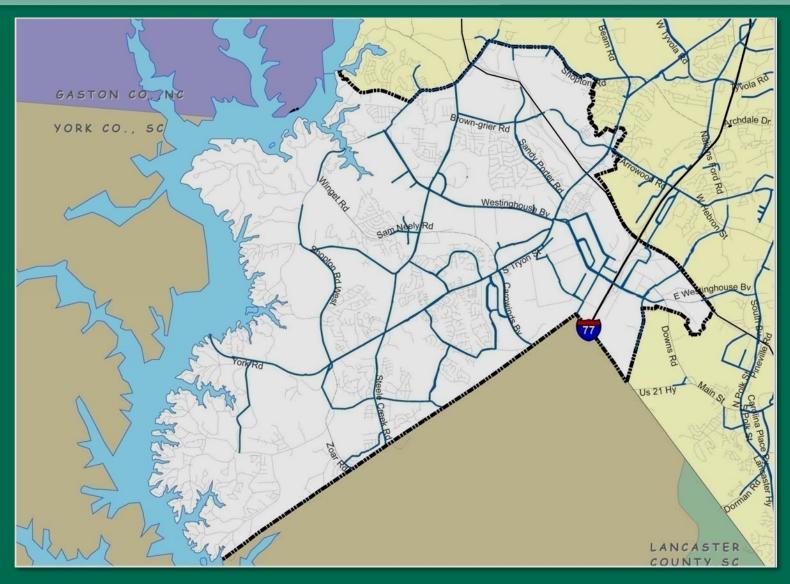


## CMU Facts & Figures for 2009

- 4,025 Miles of Water Distribution Mains
- 242 mgd of Water Treatment Capacity
- 4,028 Miles of Sewer Mains
- 123 mgd of Wastewater Treatment Capacity
- Approximately 224,000 Service Connections

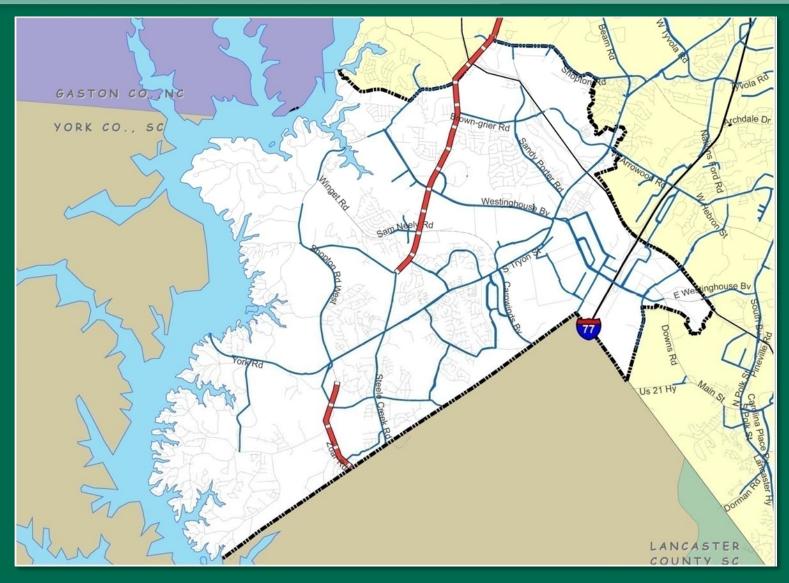






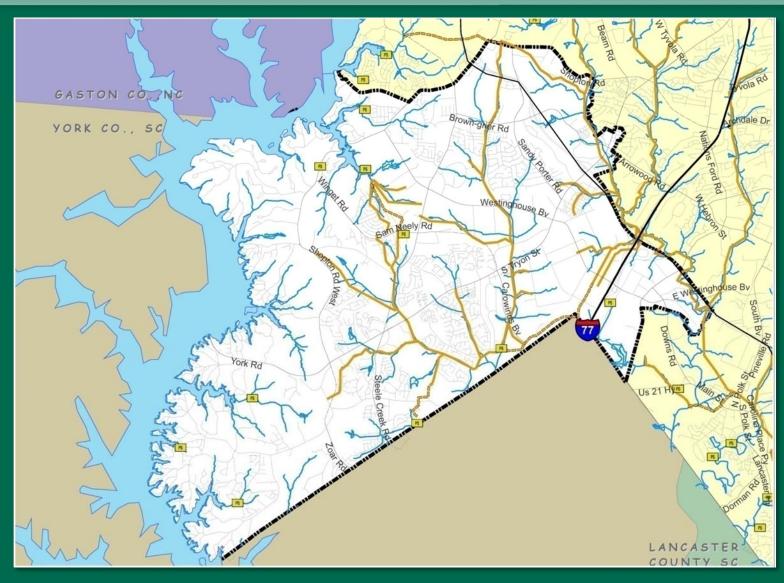
## Existing Water System





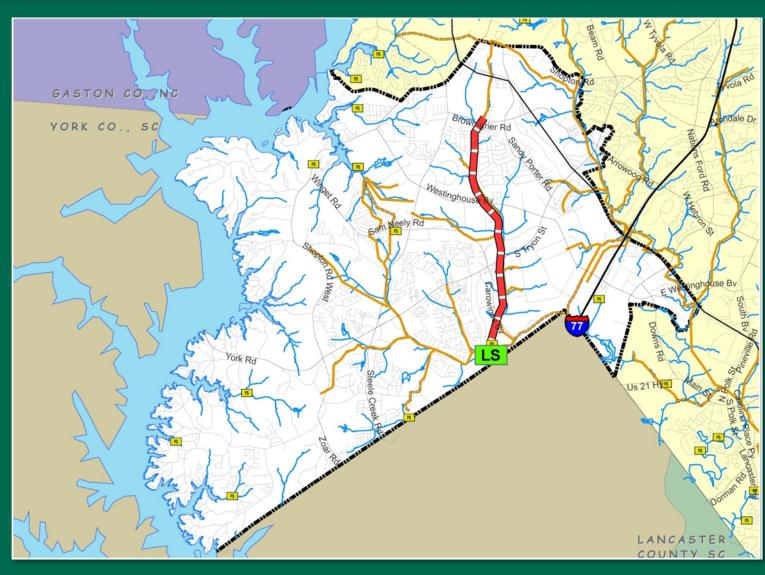
## Water System Capital Projects





## Existing Sewer System





## Sewer System Capital Projects





#### NATURAL ENVIRONMENT POLICIES



- Goal #1: Protect the quality of the area's water supply.
  - Identify environmentally sensitive areas such as watersheds, wetlands, streams, and address how they will be protected and/or mitigated.
  - Use best management practices to collect, treat and disperse storm water run-off.
  - Encourage development practices that minimize clearing, grading and soil compaction.





- Goal #2: Encourage environmentally sensitive land development practices.
  - Preserve tree canopy, native plants and open space by incorporating natural features into development.
  - Develop a network of green spaces that include greenways, nature preserves, parks, and open spaces and link greenways to significant areas of activity, such as retail centers, schools, and parks.
  - Encourage new development to be built to environmentally sensitive design standards.



- Goal #3: Balance land use and transportation decisions to minimize air quality impacts.
  - Reduce vehicle emissions by shortening trip distances and decrease trips by appropriately locating land uses and providing transportation choices for pedestrians, cyclists, transit users and motorists.



# • Questions?







## Citizen Advisory Group Meeting #4

October 1, 2009
– Public Facilities





# Thank You!

# www.charlotteplanning.org





## GENERAL DEVELOPMENT POLICIES



#### • General Development Policies (GDP)

- Purpose: Provide guidance to City Council, staff, and the general public to ensure that future growth and development is well-designed and consistent with the long-term goals of Charlotte-Mecklenburg.
- **GDP Environment** (adopted 2007)
  - Purpose: Minimize the negative environmental impacts of land use and land development on our air, land, and water resources.
  - Goal: Protect the natural environment by preserving air quality, water quality and the tree canopy; retaining natural areas; providing open space; and minimizing impervious cover, as feasible



#### **GDP - Natural Environment Four Guiding Principles:**

- Make protection of our natural environment a priority in land use and development decisions.
- Facilitate a land use pattern that accommodates growth while respecting the natural environment.
- Promote and enable environmentally sensitive site designs.
- Consider the environmental impacts of land use and development comprehensively and strive to reconcile the various environmental concerns with each other and balance them with other land and economic development considerations.





## **NATURAL FEATURES**



#### **Natural Features**

