

Basic Motions

Motion
Calls for Action
 Debatable
 Simple Majority

Motion to Amend
Changes Original
 Debatable
 Simple Majority

Other Motions

Table
Postpone Vote
 No Discussion
 Simple Majority

Close Debate
End Debate & Vote
 No Discussion
 2/3 Majority

Reconsider
Change Prior Decision
 Voted in Majority
 Within One Meeting
 Debatable
 2/3 Majority

Recess
Take a Short Break
 No Discussion
 Simple Majority

Consensus Process
If 1-Vote Majority
 Debatable
 3 Votes to Pass

Adjourn
End the Meeting
 No Discussion
 Simple Majority

Actions and discussion are governed by motions. Only 3 motions on the table at once (a 4th would be out of order). Most recent motion is considered first.

☐ Convene meeting + Reminder: Turn off Cell Phone

I. Roll Call/Quorum _____ Board Members (quorum = 4)

II. Pledge of Allegiance

III. Additions/Deletions/Approval of Agenda

IV. Approval of October 1, 2015 Minutes (Attachment A)

V. Announcements

VI. Public Comment Period

Public Comment Period is a period reserved for comments by the public. A total of 30 minutes is allocated with each individual being allowed no more than 3 minutes each. The Public Comment Period will be closed once the allocated time has been reached.

VII. New Business

- a. Watershed Master Plan Update (30 mins) – L. Kirby
- b. Goals & Objectives Discussion (15 min) (Attachment B) – D. Kimmel

VIII. Old Business

- a. 2016-2017 EAC Grant Call For Proposal Approval (10 mins) (Attachment C) L. Kirby
- b. Plastic Resolution – Update from Board and Commission meetings (10 mins) – D. Ames
- c. Earth Day Subcommittee Update (10 mins) – J. Weaver

IX. Other – FYI

- a. Recycling Report (Attachment D)

X. Proposed Agenda Items – December 3, 2015

- a. 2016 Goals & Objectives - Finalize
- b. Council Presentation - Brainstorm

XI. Adjourn

Items for Future Consideration

_____	_____
_____	_____
_____	_____

Board Members

Chair

1. David Kimmel

Commission Members

2. David Ames
3. Emilie Kane (Vice-Chair)
4. Ernest Larkin
5. Durk Tyson
6. Jon Weaver
7. Vacant

Ex-officio

Kevin Mulligan
(Public Works)

Staff Liaison

Lisa Kirby
(Public Works)

City Council Liaison

Marion Blackburn

Environmental Advisory Commission Mission:

The Environmental Advisory Commission is hereby created for the primary purpose of recommending matters of environmental concern and serve as technical advisory to the City Council.

Environmental Advisory Commission Purpose:

- Inventory and review, on a continuing basis, the condition of threats to, the environmental resources of the City; and as technical advisors, to report all needs for improvement and corrective actions to the City Council.
- To be advisory to the City Council. The commission will recommend to the City Council matters of city-wide environmental concern and shall serve as technical advisors to the City Council on environmental matters. In addition, it will review Environmental Impact Statements required by the City on major development projects.

ATTACHMENT A

(October 1, 2015 Minutes)

Action: For your review and approval.

**DRAFT OF MINUTES PROPOSED FOR ADOPTION BY THE
ENVIRONMENTAL ADVISORY COMMISSION
October 1, 2015**

CALL TO ORDER

Members of the Environmental Advisory Commission met on the above date at 5:30 p.m. in the Council Chambers, City Hall. Dr. David Kimmel, Chairperson, called the meeting to order and welcomed all those present. The following attended the meeting:

1. ROLL CALL

MEMBERS:

David Ames
Ernest Larkin

Emilie Kane
Jon Weaver

David Kimmel

OTHERS PRESENT:

Michael Cowin, City of Greenville
Lisa Kirby, City of Greenville
Amanda Braddy, City of Greenville

2. PLEDGE OF ALLEGIANCE

3. ADDITIONS/DELETIONS TO THE AGENDA

There were no additions or deletions to the agenda.

4. APPROVAL OF SEPTEMBER 3, 2015 MINUTES

A motion was made by Dr. Larkin to approve the September 3, 2015 minutes as presented. The motion was seconded by Dr. Ames and passed unanimously.

5. ANNOUNCEMENTS

- Mrs. Kirby informed the group that the Watershed Master Plan update was postponed from the October meeting to the November meeting to allow for a presentation by the consultants of the project.
- Dr. Kimmel welcomed Mr. Jon Weaver as the newest member to the EAC.

6. PUBLIC COMMENT PERIOD

There were no public comments.

7. NEW BUSINESS

A. Election of Officers

Dr. Kimmel requested nominations for the Chairperson of EAC. Dr. Ames nominated Dr. Kimmel as Chairperson. There were no further nominations. Dr. Larkin seconded the motion. The motion passed unanimously.

Dr. Larkin nominated Dr. Kane as Vice-Chairperson. There were no further nominations. The motion was seconded by Dr. Ames. The motion passed unanimously.

B. Street & Pedestrian Bond Information Presentation

Mr. Michael Cowin, Assistant City Manager for the City of Greenville, was present to update the Commission on the 2015 Street & Pedestrian Transportation and Improvement Bond. The bond will allow voters to decide if the City of Greenville should be authorized to raise money through

the sale of bonds and issue debt to pay for certain street and pedestrian transportation improvements. Mr. Cowin stated if growth in the tax base and other revenues cannot pay for the bonds, the tax rate would need to be raised about 2.25 cents per \$100 valuation. However, it is not the intention of the City to increase tax rates unless absolutely necessary.

The total bond amount being requested is \$15,850,000.00. This amount would allow funding for the following projects:

- a. Street Improvements (\$10,000,000.00) – Street improvements for milling, repair, and resurfacing. Streets being considered include Arlington Boulevard, Elm Street, portions of Hooker Road and several other major road segments.
- b. West 5th Street Streetscape (\$1,950,000.00) – Funds would continue streetscape improvements for several blocks from Cadillac Street to Tyson Street.
- c. 10th Street Connector Enhancements (\$1,750,000.00) – The funds would cover the costs associated with improvements that are above NCDOT’s standards which will allow for extended and larger sidewalks, street lighting, trees and other items which will improve pedestrian safety and encourage walking as a viable means of transportation.
- d. Sidewalks (\$1,400,000.00) – This project would build 9 miles of sidewalks at City Council prioritized locations to improve pedestrian safety and encourage walking as a viable means of transportation.
- e. East Side Greenway (\$750,000.00) – Funds for this extension would pay to plan the project to connect the eastern side of Greenville to the Greenway system.

Mr. Cowin also stated funding for the projects would not be borrowed in advance of the project but at the time the project is to begin. The City has a timeframe of up to seven years to request funding for the various amounts and would have up to 20 years to repay the bond.

Dr. Kane asked about current funding for improvements to streets within the City. Mr. Cowin stated Powell Bill funds are available; however, there is a shortfall of this funding for the improvements that are needed throughout the City.

Dr. Kimmel questioned what purpose EAC had in receiving the bond information. Mr. Cowin stated the information was being distributed to the boards and commissions of the City to better inform all constituents of their options in voting for the bond.

C. 2016-2017 EAC Grant Discussion

Mrs. Kirby directed attention to the Fact Sheet and Call for Proposal attached in the agenda package. These items would be redeveloped to coincide with the upcoming grant cycle based on the decision of EAC to proceed in the upcoming year. Mrs. Kirby presented an updated timeline for the upcoming grant cycle. Dr. Kimmel and Dr. Kane stated they felt the timeline would work within the scope of the projected grant.

Mrs. Kirby also requested the members determine a target audience for the upcoming grant cycle. Dr. Larkin asked if youth groups have been a worthwhile source for consideration in past grant cycles. Mrs. Kirby stated the grant has fluctuated in the level of participation from year to year. However, the projects that have been awarded have been outstanding and the results of the projects have impacted a multitude of youth.

Dr. Kimmel asked if members would like to consider broadening the pool of applicants to further include the possibility of community organizations or other groups to increase environmental awareness. Dr. Larkin stated broadening the possible applicants would have a more extensive environmental impact within the City. Dr. Larkin also stated targeting youth would provide a more long term education impact. Therefore, Dr. Larkin stated he felt either would be a viable option.

Dr. Kimmel suggested the possibility of alternating the target audience each year. Dr. Kimmel stated he felt the target audience should remain as youth organizations this year and have City staff further investigate target audiences for future grant cycles as well as adopting language to incorporate partnerships with private sponsors.

Mrs. Kirby will update the current Call for Proposal to include the timeline information and information on requests for partnerships with private sponsors.

8. OLD BUSINESS

A. Plastic Resolution Discussion

Dr. Ames directed attention to the draft resolution in the agenda package. Dr. Ames commended Dr. Kane for her suggestions and requested members to comment on the resolution as presented and make any additional recommendations. After review, Dr. Larkin made a motion to approve the resolution as amended. The motion was seconded by Dr. Ames. The motion passed unanimously.

Dr. Kimmel stated further action should include support from other environmental boards or commissions and presentation of recommendation to City Council. Mrs. Kirby suggested support from the Community Appearance Commission and Keep Greenville Beautiful. Dr. Ames volunteered to attend the Community Appearance Commission and asked if a volunteer would be available for the Keep Greenville Beautiful meeting. Dr. Kane volunteered to attend that meeting.

B. Earth Day & State of the Environment Subcommittee Formation Discussion

Dr. Kimmel gave a brief history of the Earth Day events being held at River Park North in April 2016 and asked for subcommittee volunteers to determine if EAC should participate in the events and if so to develop a plan of action. Mr. Weaver volunteered to chair the subcommittee and Dr. Larkin and Dr. Kimmel will serve on the subcommittee as well. Mr. Weaver will contact LAST and report back to EAC on the determination of the subcommittee's recommendation.

9. OTHER– FYI

A. Recycling Report

B. 2015-2016 EAC Grant – LAST Final Report

10. PROPOSED AGENDA ITEMS

The following items are proposed for the November 5, 2015 meeting:

A. 2016 Goals & Objectives

B. Watershed Master Plan Update

C. 2016-2017 Grant Advertising – Call for Proposal

D. Earth Day Subcommittee Update

- 11. Adjournment** –There being no further business to discuss, Dr. Kane made a motion to adjourn. The motion was seconded by Dr. Larkin and passed unanimously.

ATTACHMENT B

***(2015 Goals & Objectives and
Strategic Planning Document)***

Action: For your information.

2015 EAC Goals

1. *Identify and deploy ways in which to engage citizens (including students) in addressing environmental sustainability issues.*
2. *Continue to increase deliberate and intentional engagement with Council and other boards and commissions.*
3. *Identify and suggest ways to reduce volume of our waste.*
4. *Seek ways conserve and protect our water resources.*
5. *Incorporate service learning students from ECU in the pursuit of 2015 goal(s).*
6. *Seek opportunities to continue to promote environmental education.*
7. *Develop an inventory of the City's environmental sustainability accomplishments /achievements.*
8. *Develop a culture of measuring and disseminating the results of EAC's efforts.*

*Environmental Advisory Commission
Strategic Planning Document*

Prepared by James C. Woodley, Chair, Environmental Advisory
Commission,

Summer 2015

Preface

One of the goals established by the Environmental Advisory Commission (EAC) for 2015 was to develop a strategic plan for addressing environmental issues as the City of Greenville continues to attract new businesses through its economic development efforts, attain more residents by promoting its vast amenities, and strive to ensure that its environment is safe and healthy.

Be aware that the following terms will be used routinely in this document:

- ❖ *City* refers to the City of Greenville
- ❖ *Council* refers to the City of Greenville's elected council
- ❖ *Public Works* refers to the City of Greenville's Department of Public Works
- ❖ *River* refers to Tar River
- ❖ *Document or Plan* refers to the Environmental Advisory Commission Strategic Planning Document
- ❖ *Commission* refers to the EAC
- ❖ *Appendices* refers to the 2015 EAC Strategic Planning Appendices

The Environmental Advisory Commission Strategic Planning Document is designed to be fluid and should be updated when there are sufficient changes that warrant its modifications. Such changes involve too many elements to characterize here, thus it is left to the discretion of appropriate leadership within the EAC (as determined by EAC bylaws) or other leadership entities (i.e. *Council* or *Public Works*)

This *Document* will not recommend changes to the original Mission or purpose of the EAC. The EAC was created by the *City* for the primary purpose of recommending matters of environmental concern and serve as technical advisor to the *Council*.

The EAC's purpose includes:

- Inventory and review, on a continuing basis, the condition of threats to, the environmental resources of the *City*; and as technical advisors, to report all needs for improvement and corrective actions to the city Council.
- To be advisory to the City Council. The *Commission* will recommend to the City Council matters of city-wide environmental concern and shall serve as technical advisors to the City Council on environmental matters. In addition, it will review Environmental Impact Statements required by the *City* on major development projects.

The purpose of the Environmental Advisory Commission Strategic Planning Document is to identify new environmental challenges, track environmental efforts from the *City's* previous planning exercises (reflecting many areas of *City* government) and continue to address the *City's* core environmental issues. Also this document was developed to provide new EAC members with a succinct idea of what the EAC does and how it functions in addressing the needs of the *Council*, *Public Works*, other commissions and/or boards, and *City* residents.

This *Document* can also be used help assess how the EAC move forward in providing appropriate support to the *Council* and *Public Works* as the *City* grows and other environmental challenges become apparent.

This *Plan* is structured around seven Sections. The first section is the ***Introduction***. In this section, the *Purpose of the Document* is articulated and brief *Characterizations of the Core Environmental Issues* that the *City* will continue to face as it grows are identified. **Section 2**, titled *Who We Are*, discusses the EAC and its makeup. **Section 3**, which is titled *What We've Done*, follows with some information about 3 programs that the EAC will be tracking and implementing in the next few years. **Section 4** of the *Document* addresses *How Have We Done It*. This section introduces recent goals and action items developed through EAC discussions and a resident survey instrument, respectively.

Section 5, titled *Where We Want To Go*, is an important section. It establishes a **Vision for the Future** and provides guidance through goals for the EAC to move toward that *Vision*. The vision statement is: *The Environmental Advisory Commission will work to ensure that the City of Greenville's natural environment is sustained for future generations*. This section contains a breakdown of how the EAC is addressing the core environmental issues previously identified. In this section, the concept of *Measures of Success* is introduced. This concept is an accountability measure that is important for addressing future environmental challenges.

This section of the *Document* also contains two tables containing critical information. Table 1 is a list of current *City Boards* and *Commissions*. This table includes a priority score using environmental variables to determine whether a particular *Commission* or *Board* is more appropriate for EAC tracking. The importance of such a ranking is for leveraging EAC time commitments, especially during periods of member transitions off and on the *Commission*. Table 2 contains a list of core environmental issues, how they were identified, and how they are currently being addressed. This table is important for assessing how the EAC should continue to address its *Mission* and move toward establishing its *Vision*.

This section of the *Document* contains 2 flow charts. Flow Chart 1, titled *Fostering Environmental Partnerships*, provides a conceptual view of the essential and other partnerships. It includes information directional flow indicators to assess how those partnerships are typically functioning. Lastly, there are indicators of the need to establish new partnerships or strengthening those that may not have been nurtured over time. Flow Chart 2, titled *Greenville Environmental Relationships*, provides a conceptual view of the core environmental issues and how they are being addressed. The value of Charts 1 & 2 is they provide a simplistic view of the potential interactions that must occur in order for the EAC to address the core environmental issue identified.

Section 6, of the *Document*, lists some recommendations that are based on the collected information. The recommendations are categorized into those that are suggested for *immediate action* and those suggested as *overall action*. The following recommendations are listed for **immediate actions**:

- ❖ **It is recommended that this document is adopted by the EAC and used as a tool to assist EAC in addressing environmental challenges as the *City* continue to grow;**

- ❖ It is recommended that whoever is ultimately chosen to represent the EAC on the City of Greenville's Comprehensive Plan, Horizon's update committee, they use the information compiled in this document to ensure the EAC's environmental concerns are articulated and included;
- ❖ It is recommended that the tables and charts be used as stand-alone tools to continue to educate the City citizens about a healthy environment. (i.e. flow diagrams can be slightly modified for tabling events, etc)
- ❖ It is recommended that this document be used as a reference tool for new members of the EAC in becoming familiar with the procedures by which many of the *City's* environmental issues can be addressed; and
- ❖ Lastly, it is recommended that the suggested actions listed after each core environmental issue under the topic *Moving Greenville, NC Forward* be considered during EAC's annual goal setting exercises.

The following recommendations are listed as **Overall Actions**. **Overall Actions** (if adopted) should be addressed over a period of time that is left to the discretion of the management team of the Commission.

- ❖ It is recommended that the EAC members become more aware of some of the technical concerns associated with the core environmental issues (i.e., Environmental Impact Statement (EIS) for *City* projects that have significant environmental implications and large budgets, National Pollutant Discharge Elimination System (NPDES) permits for point source discharges into a waterbody, Brownfield designations, Geographical Information System (GIS) etc.)
- ❖ It is recommended that the EAC seek more resources (including a budget) from the *City* (in addition to the EAC Grant Program funding) to assist EAC in addressing core environmental issues (i.e., proposed State of Environment Forum, resources to develop a survey to be implemented through electronic mechanisms like Survey Monkey, etc.)

The *Document* ends with **Section 7** which contains *Appendices* of information used to develop this document. The *Appendices* include:

- ❖ Appendix 1. List of Boards and Commissions
- ❖ Appendix 2. The Tar River Watershed
- ❖ Appendix 3. Previous EAC Environmental Projects
- ❖ Appendix 4. Future EAC Projects
- ❖ Appendix 5. Environmental Advisory Commission Internal Survey
- ❖ Appendix 6. State of Environment Brainstorming Session (2-20-2015)
- ❖ Appendix 7. EAC Grant Application
- ❖ Appendix 8. No Idling Resolution
- ❖ Appendix 9. Plastic Bag Resolution
- ❖ Appendix 10. Citizen of Greenville Natural Environment Survey Factsheet

Add Acknowledgement EAC members, staff liaisons, and Council members that were involved in this process)

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Section 1: Introduction

Most strategic plans are developed for organizations that are facing budgetary deficits that require a restructuring of programs so that the organization's *Mission* is still attainable. The Environmental Advisory Commission (EAC) has no budgetary deficits or other fiscal challenges that require an intense analysis resulting in short and long-term goals. However, the *City* is seeking to expand; thus now is an appropriate time to develop a *Vision for the Future* for the EAC.

In order to make an assessment of what the environmental impacts within a city are, it is important to characterize the entities and/or activities that may influence those impacts. Below is a brief characterization of the critical components that may have an impact on the environment within and surrounding the City of Greenville, NC.

According to the US Census Bureau, Greenville has a total area of 26.3 square miles of which 25.6 square miles or 97.4% consist of land and 0.7 square miles or 2.6% consists of water. If the Metropolitan Area (MA)--which is an area that includes a radius of 5 miles outside the city limit--is added, the total area for the City is 44.9 square miles. ([Wiki](#))

Greenville is the county seat of Pitt County and the 10th largest city in the State of North Carolina. The *City's* official population according to the 2013 United States census estimate is 89,130 residents (the Greenville MA includes 174,263 people).

There are 7 miles of the Tar River that runs through the *City*. The River provides recreation, beautiful aquatic scenery, and drinking water intake (by services offered by Greenville Utilities) to the residents and visitors of Greenville. Also, there are 8 streams and creeks identified within the *City*. They include Formes Branch, Bryan Creek, Bell Branch, Meeting House Branch, Schoolhouse Branch, Sams Branch, Parker Creek, and Sains Branch. Forbes Millpond is the only natural lake within the *City*. There are numerous man-made lakes that are an integral part of the local wetlands. These surrounding wetlands support important human health, animal and plant habitat integrity, and other quality of life activities associated with most of the rivers, streams, lakes and creeks mentioned above.

As the *City* grows and there are more visitors; more roads, shopping centers, and other facilities are being constructed. This growth requires that more impervious surfaces are constructed. Such surfaces include roads, sidewalks, parking lots, driveways, playgrounds, and a host of other concrete/asphalt supported areas. Impervious surfaces change the flow of storm water run off and can direct potential pollutants into areas that may not have been subjected to those pollutants before; as well as, over load conduits that are designed to direct these nonpoint sources to appropriate treatment or point source discharge areas. There are best management practices and other activities that can mitigate this potential environmental threat.

Greenville is continuing to build a more comprehensive system of greenways for bicycle and pedestrian transportation. Greenways are important in reducing traffic congestion and inspiring *City* residents to a healthier alternative to getting around in the *City* than driving vehicles. The *City* also operates a mass transit bus system called Greenville Area Transit or GREAT system. GREAT provide residents and visitors transportation to most areas within the *City*. ECU has a comprehensive bus system for students to get around on campus and nearby *City* sites. Vidant provides shuttle service for its employees and patients (including patient families) to get around while working at the

hospital or visiting it. In addition to reducing traffic, all of these transportation alternatives act to decrease the amount of carbon dioxide that is emitted into the atmosphere from vehicle fuel combustion. Buses that use an alternative fuel further reduce the carbon dioxide emissions into the atmosphere. Carbon dioxide discharged into the atmosphere has been linked to Global Warming and sea level elevation. These global phenomena are being addressed by most nations with the United States leading the way.

Greenville's schools fall under the Pitt County Schools administration. The 12 member Board of Education oversee all Pitt County Schools including those located in Greenville. There are currently 13 elementary schools, four high schools, ten private schools and the Health Sciences Academy. Those numbers may have changed due to increased number of charter schools and private schools being established. These schools provide an opportunity for increased environmental education. (Wiki)

There are also additional higher learning opportunities in Greenville and Pitt County. East Carolina University, located within the hub of the *City*, has a full time student enrollment of over 27,000. Pitt Community College, which is located at the southern perimeter of the *City*, has an enrollment of ~10,000 students. These institutions provide jobs for thousands of persons that have to commute to the various campuses. These vast campuses have impervious surfaces that support sidewalks, roads, and parking lots. The many buildings create additional opportunities for runoff mitigation. Higher learning institutions provide another entity to address EAC goal to increase environmental education.

Partnerships with non-governmental organizations including environmental groups; play a vital role in championing environmental issues by creating awareness of specific environmental challenges and mobilizing citizens to help address them.

The City of Greenville has a Mayor-Council-Manager form of government. Together the Mayor and City Council are responsible for establishing general policies of the *City* and appointing members of the boards and commissions. The City Manager is responsible for implementing the policies established by the Mayor/Council and the day-to-day operations of the city. (Wiki)

In order for citizens of Greenville to participate in City government, Commissions and Boards were established. The *Council* has the authority to appoint members to each of the City Commissions or Boards. There are 21 Commissions or Boards established for the *City* including the EAC.

Purpose Of This Document

The purpose of this document is to identify new environmental issues, track environmental efforts from the *City's* previous planning exercises (reflecting many areas of *City* government) and continue to address the *City's* core environmental issues. Also this document was developed to provide new EAC members with a succinct idea of what the EAC does and how it functions in addressing the needs of the *Council*, *Public Works*, and other commissions and/or boards.

This document can also be used help assess how the EAC move forward in providing appropriate support to the *Council* and *Public Works* as the *City* expands and other environmental challenges become apparent.

Currently, the core environmental issues identified for the *City* are:

- ❖ Environmental Partnerships
- ❖ Environmental Education
- ❖ Water Conservation
- ❖ Land Conservation
- ❖ Plant (Trees) Conservation
- ❖ Energy Conservation
- ❖ Fragile Areas Conservation]
- ❖ Solid Waste Disposal
- ❖ Hazardous Waste Disposal/Mitigation
- ❖ Recycling
- ❖ Water Quality
- ❖ Air Quality
- ❖ Open Spaces
- ❖ Landfill
- ❖ Water/Sewer

Each of these issues will be briefly characterized in the following sections of the document.

There will be a discussion on how the EAC is operating based on the responses of people that serve in some capacity associated with the EAC.

Lastly, this document will use the information gathered to develop a vision statement and the subsequent Goals (with Objectives) to ensure that the EAC is effectively working towards that *Vision*. This strategic planning process will help ensure that the EAC will continue to effectively achieve its *Mission* as the *City* grows.

Characterization of Core Environmental Issues Affecting Greenville

This section of the document will briefly summarize each of the Core Environmental issues mentioned above.

Environmental Partnerships

Partnerships are an important tool to leverage costs and manpower across several entities that have the same or similar environmental focuses. Identifying potential partnerships is one of the most difficult aspects in effectively using this tool. The partnerships should be structured around mutually beneficial potential outcomes.



Environmental Education

It's important that the citizens and visitors of the *City* have a sense of comfort with the environmental condition of the *City* and its surrounding watershed and airshed. It's equally important that the citizens and

visitors be aware of things they can do to help preserve and protect the integrity of the environment associated with the *City*.

Water Conservation

Conserving the *City's* water is essential for maintaining an ample supply of potable water for citizens and visitors of the *City*. That conservation includes installing and utilizing water conservation technology into their homes and businesses. It also includes best management practices (BMPs) for water use for lawn and vehicle upkeep.



Land Conservation

The protection of land is important for maintaining animal and plant species that are essential for the overall health of ecosystems within the *City* and its surrounding areas. The land conservation could include *Open Spaces* and *Fragile Areas Conservation* as well.

Plant (Trees) Conservation

Trees not only provide natural beauty to the landscape; but they also have intrinsic functions that are critical to the health of the citizens and animals within the *City*. Plants (including trees) help maintain the integrity of the land by providing stabilization measures that ultimately reduce erosion. They filter contaminants from the watershed; reduce the amount of CO₂ in the atmosphere through carbon sequestering, and expel O₂. Humans and most animals breathe in O₂ to survive.



Fragile Areas Conservation

Wetlands are areas that provide essential functions for the plants and animals in an environment. Wetlands often-time function as nurseries for infant and juvenile species of land, air, and aquatic species of plants and animals. Fragile areas may also include those that provide habitats for endangered or threatened animal and/or plant species.

Energy Conservation

Energy conservation is reducing the amount of electricity used in households or businesses. It is usually addressed by using appliances that function effectively while using less **wattage** as other similar appliances providing similar functions. Another way energy is conserved is by turning off lights and appliances when they are not in use. These BMPs are more difficult to put into action because they require a behavioral change. Lastly, energy conservation can be addressed by the type of vehicles used by the *City* to deliver services to its residents. There are vehicles whose energy usage is markedly reduced than other vehicles providing similar services or functions. They may cost more but their



operating cost will be sliced significantly. More importantly, their environmental impacts will be significantly reduced.

Hazardous Waste Disposal/Mitigation

Underground storage tanks (USTs) are still a source of pollution for the soil and/or ground water of the surrounding areas where it was installed (if they began to leak). Most often these tanks do began to leak at some point. The clean up of those pollutants can be an expensive effort. However; the health impacts on plants, animals, and humans in the leakage area are unquestioned-- and this contamination has to continue to be addressed. *Public Works* partners with **State agencies** to address this environmental issue.

Solid Waste Disposal

Trash pick-up and disposal are essential functions of any growing or already established metropolitan city. The way trash is compacted and where it is ultimately deposited is also important. Often trash disposal in landfills render that area unusable in the near future after its load capacity has been reached. Also, seepage of toxicants from land fills can negatively affect the ground water and soil; thus, potentially impacting the health of animals and humans using that water as a potable resource.



Recycling

Encouraging the citizens of Greenville to recycle their trash is another of the BMPs for waste disposal that requires a behavioral change in those citizens. Recycling is not a straight forward process because not all waste materials are recyclable. Therefore, citizens have to buy into the process for it to be successful.

Water Quality

This characterization looks at two aspects of water quality. The first is potable water. The *City* works with Greenville Utilities Commission (GUC) to ensure that the potable water supply from the Tar River is safe from pathogens and/or other contaminants that could potentially cause negative human and animal health impacts after treatment and/or disinfection. The second addresses designated uses for *City* waterbodies that allow for criteria to be established ensuring that the use can be fully attained and maintained. The designated use is associated with portions or all of the Tar River within the *City's* jurisdiction. In addressing water quality, the *City* must look at the environmental health of its waterbodies from a watershed perspective. The Environmental Protection Agency (EPA) defines a watershed as an area in which water, sediments, and dissolved materials drain to a common outlet, such as a river, lake, bay, or ocean. The overall environmental health of a watershed is dependent on the pollution impacts from the various sources throughout the watershed. Therefore, it's important that there is a mutually agreeable relationship with all the entities that play a role in or have an invested interest in the overall health of the watershed. Often the jurisdictional boundaries are not well defined.

Air Quality

The quality of air that the citizens and visitors of the *City* breathe is greatly impacted by the fuel combustion emissions from vehicles that provide services to the *City*; as well as, personal vehicles that travel throughout the *City*. An airshed is a part of the atmosphere that behaves in a coherent way with respect to the dispersion of emissions. Thus it is a geographical area where local topography and meteorology limit the dispersion of pollutants away from the area (wiki)



Open Spaces

Open spaces provide an opportunity for the *City* to intermingle its' natural environment with its' anthropogenic areas. The Greenways use the open spaces to provide pathways for alternative transportation modalities, i.e. bicycling, skate boarding, and walking. All of these alternatives to driving reduce traffic congestion and fuel combustion emissions (which help to improve air quality and decrease greenhouse gases).

Landfill

Landfill environmental challenges may not be obvious *City* issues as the other core environmental issues are. Yet, landfills within surrounding counties also may impact *City* residents through ground water contamination that may leak into the *River* thus becoming a part to the watershed. This sort of contamination can impact animal and human health over a broad area if it becomes part of the watershed. Because of the airshed effect, air quality can be impacted by landfills in surrounding Counties.



Water and Sewer

Greenville Utilities Commission (GUC) provides potable water to residents of the *City* and its visitors. Water from the *River* is collected and sent to a GUC treatment facility. After treatment, potable water is distributed to the *City's* residents. Another GUC treatment facility collects sewerage from the homes of the *City's* residents and businesses. That material is treated so that it no longer contains significant concentrations of pathogens and/or other pollutants and no longer poses animal or human health risks. Ultimately, the treated effluent is discharged into the *River*.

Section 2: Who We Are?

Mission

The EAC was created by the *City* for the primary purpose of recommending matters of environmental concern and serve as technical advisor to the *Council*.

The EAC's purpose includes:

- Inventory and review, on a continuing basis, the condition of threats to, the environmental resources of the *City*; and as technical advisors, to report all needs for improvement and corrective actions to the city Council.
- To be advisory to the City Council. The *Commission* will recommend to the City Council matters of city-wide environmental concern and shall serve as technical advisors to the City Council on environmental matters. In addition, it will review Environmental Impact Statements required by the *City* on major development projects.

Background

The EAC is designed to be a diverse *Commission* which should enable it to address a broad spectrum of environmental issues. The *Commission* consists of 7 members of citizen with the following expertise:

- A lawyer or other person with knowledge of environmental regulations and environmental safety practices;
- A building contractor, land developer or someone familiar with construction techniques;
- A member of local environmental group;
- An educator of natural sciences or physician;
- A professional engineer;
- An at-large member from the Greenville community; and
- An at-large member with skills and interest in environmental public health, safety and/or medicine

All members shall be appointed by the City Council in accordance with the approved policy and City Clerk's Office shall send the appointment letters for those members. The mayor or a member of *Council* shall be designated as an ex-officio, non-voting member of the *Commission*.

The members of the EAC meet monthly on the first Thursday. The meetings are held in Council Chambers at 5:30 pm and they are broadcast live on local TV channel 9. Videos of the monthly meeting that occurred within that month run throughout the month in a broadcast cycle on local TV channel 9. Also, videos of meetings can be downloaded from the City's website at www.greenvillenc.gov. Transcripts of the meeting minutes and the next month's agenda are also available on the City's website

Section 3: What We've Done?

The EAC has been involved in many activities addressing environmental issues within- and surrounding the *City* over the past few decades. Three brief descriptions of some of the ongoing environmental projects are presented in this section. A list of additional environmental achievements is provided in Appendix 3.

EAC Grant Program

The City continually strives to serve its citizens and provide programs that will increase the quality of life and livability of our community. Non-point source pollution has a significant affect on water quality, property values and the safety of our citizens. In an effort to address these concerns, the EAC has developed the EAC Grant Program.

When rain falls on natural areas, such as a forest, it is slowed down, filtered by soil and plants, and allowed to soak back into the ground. In contrast, when rain falls on impervious areas rain does not soak into the ground and stormwater run off is created. Stormwater runoff picks up pollution such as pet waste, fertilizer, pesticides, motor oil, litter, and yard waste on the way to local creeks, streams and waterways. In Greenville, stormwater runoff does not go to a treatment plant. Instead, runoff and the pollution in it, flows into our creeks and streams-then eventually into the Tar-Pamlico or Neuse River.

The EAC Grant Program will provide an avenue for youth organizations to apply for a grant from the City for projects that will minimize the effects of non-point source pollution. There are many different types of projects that will qualify for the \$2500 grant. (Recipients must provide a 25% match of the grant funding.) Most projects are structural and prevent water pollution by capturing polluted runoff and treating or detaining it. Other projects may take the form of education, awareness, or good house keeping measures. All of these components are equally important. The grant cycle starts with the announcement of the grant availability in Jan. Applicants have until March 20th of that cycle to submit a complete grant application package. Grant recipients for that cycle will be selected during the April EAC meeting. The projects should begin around July 1st and should end around June 30th of the following year. Recipients will present their projects to the EAC during one of their fall televised meetings.

The EAC fund projects that minimize the effects of non-point source pollution. There are numerous projects that could qualify for the grants, and most are structural and prevent pollution by capturing polluted runoff and treating or detaining it. Other projects could include education, awareness or BMPs, including installing stormwater control measures, repairing erosion caused by runoff, and installing rain barrels for water reuse.

Past and Current EAC Grant Recipients

Wahl-Coates Explorers conducting Water Quality Monitoring



***Wahl-Coates Explorers
2012 - 2013***

The Wahl-Coates Explorers were the 2012 recipient of the EAC Grant. They used the grant funds to carry out a year-long water monitoring project on Green Mill Run.

J.H. Rose students observing erosion in a local stream with Dr. Bean



***J.H. Rose High School
2013 - 2014***

J. H. Rose High School received an EAC Grant during the 2013 -2014 grant period. The project they worked on developing Education Modules to be repeated for other classes during upcoming years. Those modules were Hydrologic Cycle, Effect of Impervious Area on Runoff, Stormwater Impacts on Streams. And Stormwater management. Stream tours showing stormwater impacts and tours showing stormwater BMPs were conducted.

Ridgewood Elementary 5th grade students**Ridgewood Elementary
School Science Club
2014 -2015**

Their EAC Grant project is the development of a rain garden. Their project including planning the rain garden, building it, maintaining it, and educating other students, teachers, and parents about the purpose of the garden. The project will focus more specifically on; hydrologic concepts, anecdotal observations of wildlife and biodiversity, weather conditions and their relationship to stormwater runoff, and water quality.

**Global Warming Initiatives**

During its regular meeting on February 6, 2007, the EAC adopted Resolution No. 2007-02-EAC, supporting the US Mayor's Climate Protection Agreement and requesting that the Mayor declare the City of Greenville a "Cool City." The EAC has been researching and discussing this matter over the last several months. The EAC desires to have Greenville join other communities across the country in becoming a "Cool City." By becoming a "Cool City", the *City* is committing to implement measures that will help reduce global warming pollution. By this declaration, the *City* will be aligned with over 200 cities in 38 states, committing it to making every attempt to incorporate in its public education activities, promotions, procurements, and decision-making efforts, to reduce the consumption of fossil fuels through optimizing energy efficiencies.

There are four main steps to becoming a "Cool City" as follows:

1. Take the Cool City Pledge – Sign the US Mayors' Climate Protection Agreement (MCPA). This sets the goal of reducing citywide global warming carbon dioxide pollution to 7% below 1990 levels by 2012.
2. Conduct a Global Warming Emissions Inventory – This will identify the *City's* major CO₂ sources and provide a baseline to judge the *City's* progress.
3. Create a Solutions Plan – The plan will identify measures that will reduce emissions while lowering energy costs for the *City*. There are three strategies:
 - a. Green Vehicle Fleets,

- b. Energy Efficiency, and
 - c. Renewable Energy.
4. Implement and Monitor Progress – Put the plan into action and monitor its progress periodically

Local governments choosing to undertake this program begin by evaluating daily operations to identify ways to accomplish the objectives of the MCPA. The following are examples of measures being used to accomplish the program objectives:

- ✓ Amending local building codes to require energy-efficient building techniques in new buildings (Green Buildings), retrofitting existing buildings,
- ✓ Recycling and waste reduction,
- ✓ Purchasing green vehicles, and
- ✓ Providing public education.

Watershed Approach to Water Quality Protection in Greenville, NC

Stormwater Management, a division within *Public Works*, comprehensively addresses surface water within the *City* through public leadership to protect and preserve the environment and the quality of life in Greenville.

A watershed is an area in which water, sediments, and dissolved materials drain to a common outlet, such as a river, lake, bay or ocean.

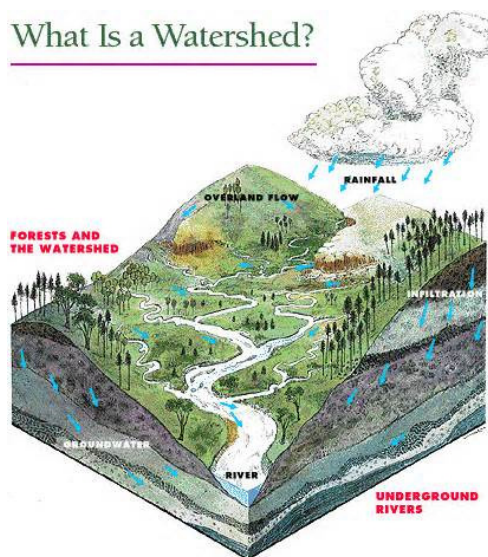
In 2012 -2013, the City completed the pilot watershed master plan (WMP) for the Meetinghouse Branch watershed along with the development of standard operating procedures (SOPs) for watershed master planning.

The goals of the WMP included:

1. Evaluating the watershed for existing flooding, water quality, and erosion problems,
2. Recommend and prioritize capital improvement projects to mitigate existing flooding by reducing the frequency and severity of flooding for property owners,
3. Identifying stream stabilization projects to reduce the risk of property loss along streams and reduce sediment loads as a result of erosion, and
4. Identify stormwater BMP retrofit locations to address runoff from existing impervious areas in order to minimize negative impacts to water quality in the receiving waters.

Council recognized the importance of WMPs and their impacts on stormwater runoff. As a result, the remaining watershed plans were initiated in Fall 2014. See Appendix 2, page 40 for more information.

What Is a Watershed?



Section 4: How Have We Done It?

This section of the document will briefly discuss the goal setting, associated processes, and the EAC support system. During the latter part of the calendar year, the EAC began discussing goals for the upcoming year and assessing environmental achievements for the current year. These activities culminate in setting the agenda for the upcoming year. That agenda along with previous year achievements are articulated to *Council* in chambers in January of the new calendar year. The calendar for the year is structured also during this early part of the new year. However the calendar is fluid in that any necessary additions and/or deletions to the calendar during the year are allowed.

2015 EAC Goals

All members of the EAC discuss and decide on the goals for the upcoming year. Below are a list of goals for the 2015 year.

1. *Identify and deploy ways in which to engage citizens (including students) in addressing environmental sustainability issues.*
 - a. Continued implementation of the Stormwater Grants Program
2. *Continue to increase deliberate and intentional engagement with Council and other boards and commissions.*
 - a. Commission meetings that focus (to some extent) on environmental issues and EAC member tracking those environmental issues they may be addressing:
 - i. Community Appearance Commission
 - ii. Greenville Bicycle & Pedestrian Commission
 - iii. Greenville Utilities Commission
 - iv. Redevelopment Commission
 - v. Recreation and Parks Commission
 - vi. Neighborhood Advisory Board
 - vii. Planning and Zoning Commission
 - viii. Public Transportation and Parking Commission
 - b. Presentation to the Council the Air Quality Resolution
 - c. Presentation to the Council the “*Plastic Bags*” information with recommendations for seeking resolution
3. *Identify and suggest ways to reduce volume of our waste.*
4. *Seek ways to preserve our “liquid gold” (water).*
5. *Incorporate service learning students from ECU in the pursuit of 2015 goal(s).*
6. *Seek opportunities to continue to promote environmental education, i.e.:*
 - a. Distributing the plastic brochure
 - b. Presenting Enviroscope
 - c. Implementing Action Items from the Natural Environment Survey

7. *Develop an inventory of the City's environmental sustainability accomplishments /achievements.*
8. *Develop a culture of measuring and disseminating the results of EAC's efforts.*
 - a. Developing a strategic plan for full implementation in 2016
 - b. Participate in the development (and providing other support as appropriate) of an Environmental Symposium targeting high school students in the Spring of 2015. (Partnering with River Park North)

Action Items Developed from the Citizen of Greenville Natural Environment Survey

During the 2014 calendar year, a resident survey was developed, distributed, results tabulated, and made available to the EAC for future agenda considerations. This effort was led by Commissioner Kimmel, an ECU student, and additional ECU staff. The results from that survey were used to develop EAC's future action items. Those items (presented below) were instrumental in shaping the EAC's 2015 Agenda.

Action Items

1. Continue to provide Greenville's City Council with concerns/advice/comments associated with proposed or on-going projects that may have negative environmental impacts.
2. Determine if the survey should be redone to reach more citizens of Greenville
 - a. If the survey is to be redone, what would be the purpose and format?
 - b. If the survey is to be redone, are there action items from this survey that can be developed?
3. Increase environmental education activities
 - a. Continue to foster relationships/partnerships with other entities that have an environmental focus.
 - b. Continue stormwater grants program and increasing its visibility.
 - c. Offer other environmental grants (i.e., waste disposal management, water quality monitoring, other pollution impacts).
4. Develop marketing strategies to continue to involve Greenville's citizens in pollution control activities
 - a. 5 minute environmental education segment opening EAC monthly meetings.
 - b. Social media platforms
 - c. Publishing or posting recycling data in a less technical manner.
5. Yearly forums/presentations on the State of the Environment in Greenville
 - a. Partnering with other environmental entities to ensure message is truly informative
 - b. Results and actions derived from the 2014 Watershed Survey.
 - c. Recycling data

Section 5: Where We Want to Go?

The Environmental Advisory Commission will work to ensure that the City of Greenville's natural environment is sustained for future generations through:

- ❖ *Investigating and recommending sound practices that may be implemented by Council;*
- ❖ *Conducting regular surveys of Greenville citizens designed to gather information about their knowledge of environmental issues, how those issues are being addressed, and by whom;*
- ❖ *Organizing and establishing an annual State of the Environment Forum; and*
- ❖ *The City being recognized by appropriate entities for efforts to address environmental issues through initiated programs.*

This section will begin with a *Vision for the Future* statement and some objectives to ensure the EAC continue to move toward that *Vision*. The vision statement was developed through analyses of the prior Sections. This document will help to address how future goals are developed; therefore, it may not have a direct impact on the 2015 goals (except for the Environmental Education goals).

Vision Statement

The Environmental Advisory Commission will work to ensure that the City of Greenville's natural environment is sustained for future generations.

Goals

1. To investigate and recommend environmentally sound practices that may be implemented by *Council*:

Objectives

- a. Provide technical expertise to *Council* on environmental issues as stated in the Commission's *Mission* and *Purpose* statement;
- b. Set annual priorities around core environmental issues;
- c. Nurture relationships with other entities that have environmental interests (i.e. East Carolina University, FROGGs, etc); and
- d. Foster information sharing opportunities with other organizations that have environmental interests (i.e., NGOs, Greenville City Departments, Pitt County organizations, etc)

2. To conduct regular surveys of Greenville citizens designed to gather information about their knowledge of environmental issues, how those issues are being addressed, and by whom:

Objectives

- a. Use results to modify annual priorities and
 - b. Use results to measure success of environmental education activities.
3. To organize and establish a 1 day *State of the Environment* meeting/conference for Greenville that would be held annually:

Objectives

- a. Use as an information sharing opportunity and
 - b. Use to measure success of environmental education activities.
4. To be recognized by appropriate entities (i.e. EPA, NGOs, etc.) for efforts to address environmental issues through initiated programs.

Objectives

- a. Use recognition as a marketing tool for attracting visitors, potential residents, and industry/jobs to the Greenville area; and
- b. Use to measure success of environmental initiatives.

Moving Greenville, NC Forward in Addressing Environmental Core Issues

The Vision Statement and Goals (along with associated Objectives) is the framework for moving Greenville, NC forward environmentally. Each core environmental issue will be briefly discussed below with that framework in mind. Bulleted after each core environmental issue are recommended actions that the EAC can take to ensure that those issues are being addressed and accounted for in the future. The *Measures of Success* items can be used as teaching tools for EAC members and *Public Works* staff to determine what worked or didn't work for particular environmental projects. It is hopeful that these types of accountability measures would be valuable environmental tools the EAC can use to address future issues as the *City* continues to grow and face new environmental challenges.

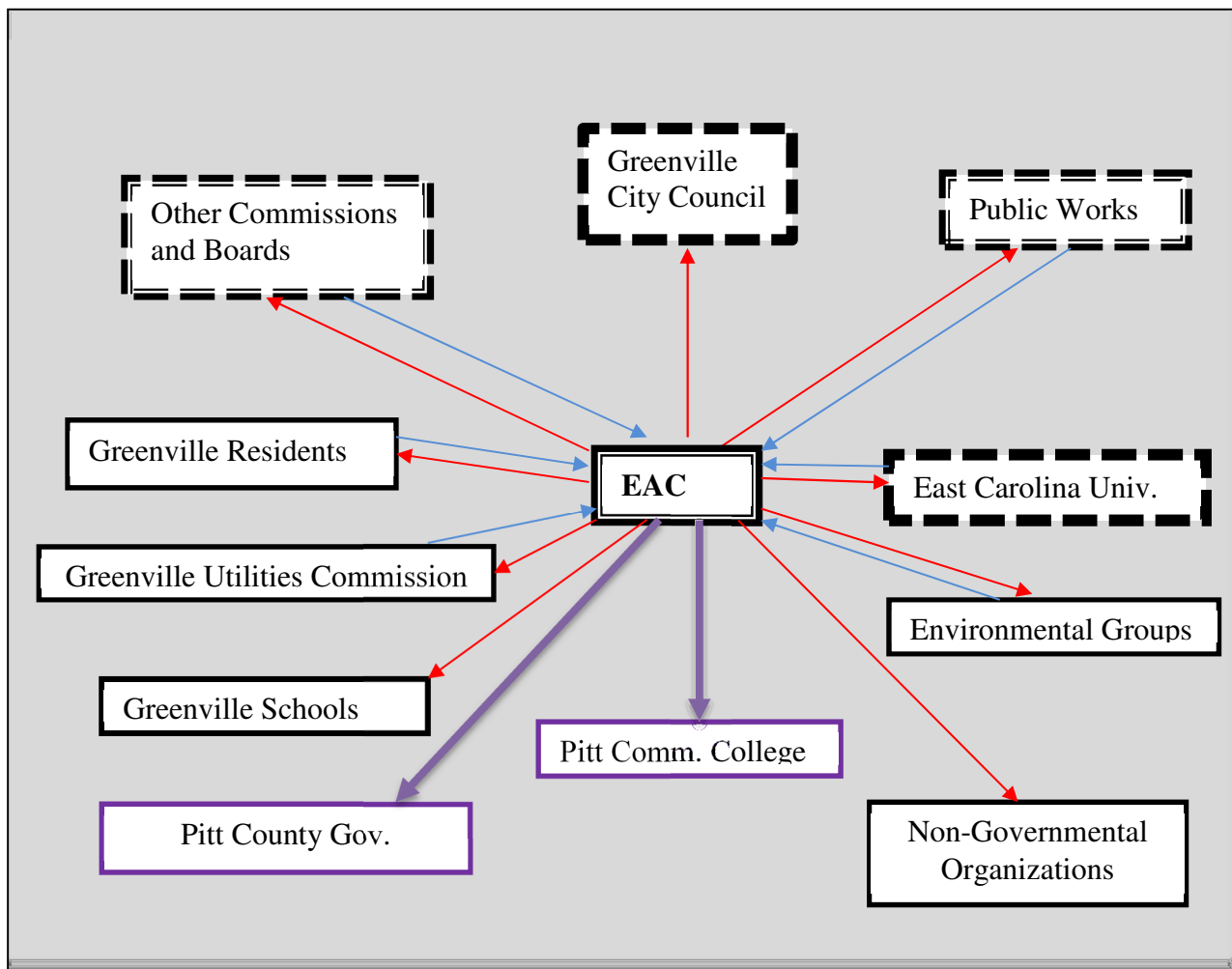
Table 2, titled *List of Greenville's Environmental Actions*, contain information about the *City's* core environmental issues and how they are being addressed. The information is compiled from a number of strategic plans and other programs that have environmental impacts or may be addressing environmental concerns in those program areas. A list of the strategic plans and/or programs that the specific information is taken from follows the table.

Fostering Environmental Partnerships

Flow Chart 1 is designed to depict some of the partnerships that the EAC have established and/or need to strengthen using the following premises:

- ❖ Bold hash marks surrounding boxes depict essential partnerships
- ❖ Blue arrows depict information brought to the EAC.

- ❖ Red arrows depict information given from EAC to the targeted entity.
- ❖ Purple arrows and purple boxes indicate a need to establish a partnerships or strengthening one that has not been nurtured over time.



Flow Chart 1. EAC Environmental Partnerships

There are essential partnerships depicted in Flow Chart 1 that the EAC must continue to strengthen. They include:

- ❖ *Council*
- ❖ *Public Works*
- ❖ East Carolina University
- ❖ Other Commission and Boards

Currently the EAC regularly receive updates from particular Non-governmental Organizations addressing areas with mutual environmental interests. Those updates should continue and other organizations should be invited when appropriate. Flow Chart 1 depicts partnerships that the EAC should strengthen. They include:

- ❖ Greenville Residents
- ❖ Greenville Utilities Commission

- ❖ Greenville Schools
- ❖ Environmental Groups
- ❖ Non-governmental Organizations

Lastly, Flow Chart 1 depicts partnerships that need to be established or nurtured back to effectiveness. They include:

- ❖ Pitt Community College
- ❖ Pitt County Government

Partnerships with other commissions and boards are areas where this particular core environmental issue can be addressed. Table 1, titled *City Boards and Commissions* list the 21 boards and commissions that have been established by the *City*. This table includes an Environmental Criteria Score (ESC). The ESC is the accumulative score which identifies the potential negative environmental impacts (EI), added to environmental education (EE), which are activities that provide opportunities to inform the public about important environmental issues. Now that criterion is added to the environmental sustainability (ES) criteria, which are activities that maintain or improve current environmental quality.

The scores range from 0-3 where the highest score of 3 indicates that the commission or board, most likely, will be addressing issues that the EAC would be interested in tracking. The EAC are tracking those commission and boards which have an ESC of 1-2 up to 2-3. There are six commissions that fall into that category (also one was added for its future potential environmental impacts—Planning and Zoning Commission). They include:

- ❖ Recreation and Parks Commission,
- ❖ Greenville Utilities Commission,
- ❖ Redevelopment Commission,
- ❖ Community Appearance Commission,
- ❖ Greenville Bicycle and Pedestrian Commission,
- ❖ Planning and Zoning Commission, and
- ❖ Public Transportation and Parking Commission.

The manners in which an EAC member tracks another commission or board could be one or more of the following:

- ❖ Attend the meeting;
- ❖ Review meeting agenda (prior to meeting) and minutes (after the meeting) on line;
- ❖ Watch meeting on local TV; and/or
- ❖ Watch video of meeting online.

The EAC should also invite members of boards or commissions to regularly attend scheduled EAC meeting. These updates may be quarterly, bi-annually, or some other schedule depending on the expected duration of the particular project.

City of Greenville Boards and Commissions

The Environmental Score (0-3) is a computation including the addition of 3 criteria.

The Environmental Criteria Score (ESC) = potential negative Environmental Impacts (EI)+ Environmental Education (EE) opportunities + Environmental Sustainability (ES) opportunities

Board or Commission	*Environmental Criteria Score (0 -3 = low – high)
Recreation and Parks Commission	2-3
Redevelopment Commission	2-3
Greenville Utilities Commission	2
Community Appearance Commission	1-2
Greenville Bicycle and Pedestrian Commission	1-2
Public Transportation & Parking Commission	1-2
Affordable Housing Loan Committee	1
Board of Adjustment	1
Historic Preservation Commission	1
Investment Advisory Commission	1
Neighborhood Advisory Board	1
Pitt-Greenville Convention & Visitor	1
Youth Council	1
Pitt-Greenville Airport Authority	0-1
Planning and Zoning Commission	0-1
Fire Fighters Relief Fund Commission	0
Housing Authority	0
Human Relations Council	0
Police Community Relations Committee	0
Sheppard Memorial Library Board	0

Table 1. City Boards and Commissions and their ESC

Environmental Education

Below is a list of EAC activities that promote *Environmental Education*:

- ❖ State of the Environment Event (see Appendix 6, pages 45-47)
- ❖ River Park North Symposium held Monday, April 20, 2015.
- ❖ EAC Grant Program selected 2015 recipient Love A Sea Turtle
- ❖ Environmental Segment Broadcasts need to be more developed.
- ❖ Need to develop *Measures of Success* for each of those items.

Water Conservation

The EAC will continue to seek ways for the *City* and its residents to conserve and protect the area's ground and surface waters. Partnering with Greenville Utilities Commission is an effective way to address this issue.

- ❖ Need to determine next steps
- ❖ Need to develop *Measures of Success* for this area.

Land Conservation

The EAC is involved in wetlands preservation by supporting *City* and Non-Governmental Organizations' programs focusing on this issue. There are a number of other efforts directed by Public Works' Stormwater Management Program that address erosion, runoff, and sedimentation.

- ❖ Need to monitor the progress of those programs
- ❖ Need to develop *Measures of Success* for this area.

Plant (Trees) Conservation

The *City* is promoting the continued planting of trees along roads and highways by partnering with Non-Governmental Organizations. Also, Public Works has included tree and vegetation planting as BMPs for reducing soil erosion, runoff, and sedimentation.

- ❖ Need to monitor the progress of those programs.
- ❖ Need to develop *Measures of Success* for this area.

Energy Conservation

The *City* is addressing energy conservation through its Global Warming Initiatives (see page 16) and its declaration of being a "Cool City".

- ❖ Need to monitor the progress of those programs
- ❖ Need to develop *Measures of Success* for this area.

Fragile Areas Conservation

When a critical habitat has been identified, the EAC supports any efforts to preserve that area. Critical habitats include areas that support endangered or threatened species. Wetlands are included as fragile areas.

- ❖ Need to monitor the progress of those efforts
- ❖ Need to develop *Measures of Success* for this area.

Solid Waste Disposal

The EAC has developed a resolution addressing plastic bags (see Appendix 9, page 52). That resolution is going through the process of being submitted to *City Council* for action.

- ❖ Need to continue to move this resolution toward City Council adopting it.
- ❖ Upon adoption of this resolution, need to continue to monitor its successful implementation
- ❖ Need to develop *Measures of Success* for this area.

Hazardous Waste Disposal/Mitigation

The *City* is involved in a number of partnerships to address Hazardous Waste Disposal. *Public Works* monitor identified underground storage tanks (USTs) as they are associated with Brownfields. There are ongoing efforts to prohibit USTs in floodplains. The EAC monitor those efforts; as well as, efforts to annually collect this type of waste from citizens and encourage the safe disposal of hazardous waste.

- ❖ Need to monitor the progress of those programs
- ❖ Need to develop *Measures of Success* for this area.

Recycling

In 2015, the EAC identified *Reducing the Volume of Waste* as a goal. Addressing *recycling* efforts falls under that goal. It's important that the EAC continues to partner with other entities addressing this issue. The *City* is also involved in many efforts to address this issue as well.

- ❖ Need to monitor the progress of those programs
- ❖ Need to develop *Measures of Success* for this area.

Water Quality

There are many *City* projects focusing on the water quality of the region around the *City*. In addressing *water quality*, the watershed approach is the accepted method. The EAC support the programs addressing the many facets of protecting *water quality* through the watershed approach.

- ❖ Need to monitor the progress of those programs
- ❖ Need to develop *Measures of Success* for this area.

Air Quality

The EAC is promoting an Anti-Idling Resolution to City Council. (see Appendix 8, page 51) If adopted, this resolution would require the *City* to place signage in the selected parks, parking deck, and recreational facilities to encourage drivers to turn off their vehicles if their projected wait for their passengers is over 5 minutes. The *City* has been designated as a "Cool City" (see page 16) which means the *City* will actively seek to use a fleet of energy efficient vehicles and energy star appliances in their buildings to address *Global Warming*. The *City* is also promoting increased GREAT ridership to reduce traffic congestion and carbon emissions from less vehicles being on the streets.

The *City* is looking into the possibility of increasing vehicle registration fees and including emissions testing into motor vehicle licensing and inspections programs.

- ❖ Need to monitor the progress of those programs
- ❖ Need to develop *Measures of Success* for this area.

Open Spaces

The *City* is involved in the establishment of *open spaces* including greenways. *Open spaces* also include wetlands and floodplains protection. The EAC support these efforts and monitor them.

- ❖ Need to monitor the progress of those programs
- ❖ Need to develop *Measures of Success* for this area.

Landfill

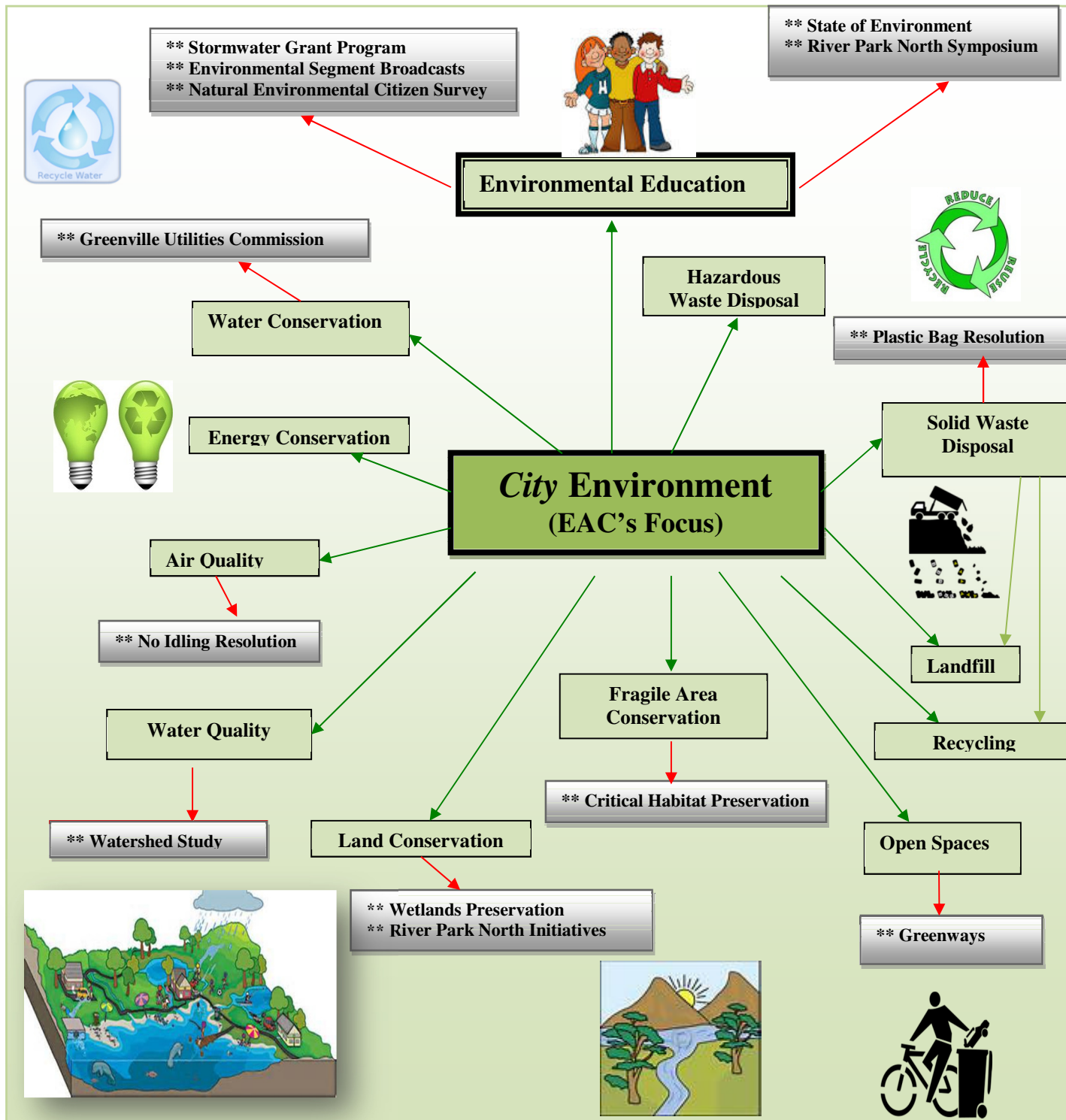
The *City* is cleaning up a *landfill* and hope to convert it to a park (Tar River Greenway)

- ❖ Need to monitor the progress of this effort
- ❖ Need to develop *Measures of Success* for this area.

Water and Sewer

The *City* is encouraging that *water and sewer* be provided to promote economic development. The *City* is working with GUC to ensure that their future plans include providing *water and sewer* to potential industrial clients.

Greenville Environmental Relationships



Flow Chart 2. Relationship of some City environmental projects and core environmental issues EAC is addressing.

Environmental Concern Reference & Date	Specific Notes	Outcome	Recommended EAC Action
Fostering Environmental Partnerships			
EAC2015-Goal			
2	Increase communication with CG and other commissions and boards	OG	
5	Inc. ECU service learning students to achieve goals	OG	
CGNES2014	Cont. to advise CC on environmental impacts	OG	
Environmental Education			
EAC2015-Goal s			
1	Identify and deploy ways to engage citizens in addressing environmental issues	OG	
6	Seek opportunities to promote environmental edu.	OG	
7	Inventory of City's environmental achievements	OG	
8	Measuring and disseminating results of EAC efforts	OG	
CGNES2014	Determining if more citizen information is needed	OG	
CGNES2014	Increase environmental education opportunities	OG	
CGNES2014	Develop marketing strategies for environmental information sharing with citizens	OG	
CGNES2014	Develop a "State of Environment" forum for citizens	OG	
Water Conservation			
EAC2015-Goal			
4	Seek ways to preserve our liquid gold	OG	
WC2014	Water conservation building codes	?	
H2009, Sect 6, Obj 4	Protect Greenville's surface and ground water		
4(b)	Superficial ground water conservation	OG	
Land Conservation			
H2009, Sect 6, Obj. 2	Preserve wetlands		
2(a)	Coord. dev. review with US Army Corp of Engineers & Soil Conservation Service	OG	
2(b)	Wetlands surveyed and delineated	OG	
2(c)	Wetlands acquisitions a priority	R & P	
2(d)	Encourage cluster dev. to protect natural areas	OG	
H2009, Sect 6, Obj. 3	Reduce soil erosion, runoff, and sedimentation		
3(a)	Revise storm water run off regs.	OG	
3(d)	Revise erosion & sediment control ordinances	OG	
Plant (trees) Conservation			
GSP2014	Increase number of new trees planted w/partners	OG	
H2009, Sect 4, Obj. 1	Encourage public recreational facilities and areas		
1(f)	Urban forestry program	SF	
H2009, Sect 6, Obj. 3	Reduce soil erosion, runoff, and sedimentation		
3(b)	Forestry runoff-Forestry Best Management Practices	OG	
3(c)			
Energy Conservation			
GCPPTAP	Climate control plan assoc. with City vehicles	OG	
GCPPBAPI	Climate control plan assoc. with City buildings	OG	
WC2014	Energy conservation building codes	?	

Table 2a. List of Greenville's Environmental Actions.

Environmental Concern Reference & Date	Specific Notes	Outcome	Recommended EAC Action
H2009, Sect 4 Obj. 5	Provide water, sewer, and electric services to promote economic development		
5(g)	Promote in housing/community redevelopment	OG	
Fragile areas Conservation			
H2009, Sect 6, Obj. 5	Protect fragile areas from poor dev. planning		
5(a)	Through GZO limit land uses in fragile areas	OG	
5(c)	Preserve threatened and endangered species habitats	OG	
Solid Waste Disposal			
EAC2015-Goal	Environmental Resolution addressing plastic bags	OG	
H2009, Sect 4 Obj. (2)	Safe disposal of solid waste		
2(a)	NC "Bottle Bill"	CCA	
2(b)	Solid waste collections: AF	FC	
Hazardous Waste Disposal/Mitigation			
GSP2014	Assessment and cleanup of Brownfields w/EPA	OG	
H2009, Sect. 4 Obj.(2)	Safe disposal of solid waste		
2(d)	Collection site for electronics (Pitt Co. et al.)	NL	
H2009, Sect. 6 Obj.(1)	Protect floodplains from undesirable development		
1(b)	Prohibit installation of USTs in floodplain	CD	
1(d)	Prohibit dev. of industry within 100 yr. Flood plain	OG	
H2009, Sect. 6 Obj.(4)	Protect Greenville's surface and ground water		
4(a)	Coord. UST regs. with NCDWQ	OG	
4(e)	Maintain inventory of large and small generators of hazardous waste	OG	
4(f)	Conduct annual household hazardous waste collection day	FC/SF	
4(g)	Dev. a system for locating/mapping USTs	NC	
4(h)	Promote regs. for hazardous materials in flood plain	CD	
Recycling			
EAC2015-Goal			
3	Identify and suggest ways to reduce volume of waste	OG	
H2009, Sect 4 Obj. (2)	Safe disposal of solid waste		
2(b)	<u>Solid waste collections:</u>	FC	
	GR	FC	
	COR	OG	
	BCR	OG	
	SS	NL	
	NCF	OG	
Water Quality			
WC2014	Impact of new City projects on storm water	OG	
GSP2014	Storm water basin modeling and inventory	OG	
H2009, Sect. 4 Obj. 5	Provide water, sewer, and electric services to promote economic development		
5(e)	TPRBA water quality study	OG	
5(h)	Support Neuse Basin WQ Management Plan	OG	

Table 2b. List of Greenville's Environmental Actions (continued).

Environmental Concern Reference & Date	Specific Notes	Outcome	Recommended EAC Action
H2009, Sect 6, Obj. 3	Reduce soil erosion, runoff, and sedimentation		
3(c)	Control agriculture runoff through NRCS-BMPs and NCACSP	OG	
3(e)	Pursue clean water grants	OG	
3(f)	Encourage citizen water quality monitoring	OG	
H2009, Sect 6, Obj. 4	Protect Greenville’s surface and ground water		
4(c)	Reduce number of point source discharges	OG	
4(d)	Potential use of graywater for irrigation	OG	
Air Quality			
EAC2015-Goal	Anti-Idling Resolution	OG	
GCPPTAP	Climate control plan assoc. with City vehicles	OG	
GCPBAPI	Climate control plan assoc. with City buildings	OG	
GSP2014	Increase GREAT ridership	OG	
WC2014	Impact of new City projects on air quality	OG	
WC2014	Impact of traffic congestion	OG	
H2009, Sect 6, Obj. 6	Protect the City’s air quality		
6(a)	Assess air quality impacts of new and proposed dev.	OG	
6(b)	Implements progs. to reduce use of private vehicles	OG	
6(c)	Support increase in vehicle registration fees for AG	OG	
6(d)	Support inclusion of auto emissions testing into motor vehicle licensing and inspections programs	OG	
Other			
<u>Open spaces</u>			
GSP2014	Green Mill Run greenway development.	OG	
GSP2014	South Tar greenway development	OG	
GSP2014	Update R & P master plan	OG	
WC2014	Low impact development	OG	
H2009, Sect 4 Goal	Community services and facilities to meet physical, economic and environmental needs of citizens		
H2009, Sect 4 Obj. 1	Encourage public recreational facilities and areas		
1(a)	Update R & P	?	
1(g)	Impact fees for parks and open spaces	? R & P	
H2009, Sect 6 Obj. 1	Protect floodplains from undesirable development		
1(a)	Adopt regs. to conserve open spaces	R & P	
1(c)	Maintain undisturbed areas of flood plain-greenways, corridors, open spaces, etc.	OG	
<u>Landfill</u>			
H2009, Sect 4 Obj. 1	Encourage public recreational facilities and areas		
1(h)	Clean up landfill and convert to park	OG/Tar River Greenway	

Table 2c. List of Greenville’s Environmental Actions (continued).

Abbreviations and Notes for Environmental Action Table 2

(List of strategic plans and programs that are addressing environmental issues in the City compiled in Table 2.)

- ❖ AQ = Air Quality
- ❖ BMPs = Best Management Practices
- ❖ CC – City Council
- ❖ CCA = City Council approval
- ❖ CD = completed
- ❖ CGNES2014 = Citizens of Greenville Natural Environment Survey (2014)
- ❖ EAC2015-Goal = Environmental Advisory Commission 2015 Goals
- ❖ FC = future considerations
- ❖ GSP2014 = Greenville 2014-2015 Strategic Plan
- ❖ GCPPBAPI = Greenville Climate Protection Partnership Building Action Plan Infrastructure
- ❖ GCPPTAP = Greenville Climate Protection Partnership Transportation Action Plan
- ❖ H2009 = 2009-2010 Horizon’s Comprehensive Plan
- ❖ NRCS = Natural Resources Conservation Services
- ❖ NL = not likely
- ❖ NCACSP = North Carolina Agricultural Cost Share Program
- ❖ NCDWQ = North Carolina Dept. of Water Quality
- ❖ OG = ongoing
- ❖ R & P = Recreation and Parks Master Plan (2009)
- ❖ Recycling
 - Broader recycling city-wide (BCR)
 - City offices paper recycling (COR)
 - Free compost
 - Grass recycling/compost display (GR)
 - Not recycling fees (NCF)
 - “Swap Shop” (SS)
- ❖ SF = seeking funding
- ❖ Solid waste collection/disposal
 - Anti-freeze (AF)
- ❖ WC2014 = Wayne Caldwell’s 2014 environmental concerns

Section 6: Final Recommendations

After reviewing the information from the various strategies and programs with environmental emphases, compiling a list of current actions being undertaken by the EAC and other programs, and future environmental projects that the EAC may wish to address; the following recommendations are listed for **immediate actions**:

- ❖ It is recommended that this document is adopted by the EAC and used as a tool to assist EAC in addressing environmental challenges as the *City* continue to grow;
- ❖ It is recommended that whoever is ultimately chosen to represent the EAC on the City of Greenville's Comprehensive Plan, Horizon's update committee, they use the information compiled in this document to ensure the EAC's environmental concerns are articulated and included;
- ❖ It is recommended that the tables and charts be used as stand-alone tools to continue to educate the *City* citizens about a healthy environment. (i.e. flow diagrams can be slightly modified for tabling events, etc)
- ❖ It is recommended that this document be used as a reference tool for new members of the EAC in becoming familiar with the procedures by which many of the *City's* environmental issues can be addressed; and
- ❖ Lastly, it is recommended that the suggested actions listed after each core environmental issue under the topic *Moving Greenville, NC Forward* be considered during EAC's annual goal setting exercises.

The following recommendations are associated with the information collected from the EAC members (those that responded) and City staff liaisons to the EAC (those that responded). These recommendations are listed as **Overall Actions**. **Overall Actions** (if adopted) should be addressed over a period of time and is left to the discretion of the management team of the Commission.

- ❖ It is recommended that the EAC members become more aware of some of the technical concerns associated with the core environmental issues (i.e., Environmental Impact Statement (EIS) for *City* projects that have significant environmental implications and large budgets, National Pollutant Discharge Elimination System (NPDES) permits for point source discharges into a waterbody, Brownfield designations, Geographical Information System (GIS) etc.)
- ❖ It is recommended that the EAC seek more resources (including a budget) from the *City* (in addition to the EAC Grant Program funding) to assist EAC in addressing core environmental issues (i.e., proposed State of Environment Forum, resources to develop a survey to be implemented through electronic mechanisms like Survey Monkey, etc.)

Section 7: Appendices

List of Appendices

- ❖ Appendix 1. List of Boards and Commissions
- ❖ Appendix 2. The Tar River Watershed
- ❖ Appendix 3. Previous EAC Environmental Projects
- ❖ Appendix 4. Future EAC Projects
- ❖ Appendix 5. Environmental Advisory Commission Internal Survey
- ❖ Appendix 6. State of Environment Brainstorming Session (2-20-2015)
- ❖ Appendix 7. EAC Grant Application
- ❖ Appendix 8. No Idling Resolution
- ❖ Appendix 9. Plastic Bag Resolution
- ❖ Appendix 10. Citizen of Greenville Natural Environment Survey Factsheet

Appendix 1. List of Boards and Commissions for City of Greenville

Environmental Criteria Score (ECS) = potential negative Environmental Impacts (EI) + Environmental Education (EE) opportunities + Environmental Sustainability (ES) opportunities

1. Affordable Housing Loan Committee

To approve loans for first time homebuyer down payment assistance, home mortgages, and elderly homeowner rehabilitation loans; to make recommendations to City Council regarding the purchase of land to be used for affordable housing developments, creation and set up of loan pool mortgage agreements with other financial institutions and making changes in funding allocations by funding category.

of members 8 **When** 2nd Wed @ 4pm **Where** Council Chambers
Environmental Projects/Activities that meet criteria (score)
 ❖ Elimination of environmental hazards (ES)
 ❖ Education and non-profit support (EE)
ECS 1

2. Board of Adjustment

To hear and decide appeals concerning zoning issues, applications for special use permits, and requests for variances under the terms of the Zoning Ordinance.

of members 11 **When** 4th Thur @ 7pm **Where** Council Chambers
Environmental Projects/Activities that meet criteria (score)
 ❖ Special Use permits (ES)
 ❖ Horizon Comprehensive Plan (ES)
 ❖ Future Land Use Map (ES)
ECS 1

3. Community Appearance Commission

To promote, encourage, inform, suggest, and solicit improved community appearance on public and private property.

of members 11 **When** 1st Wed @ 5:30 pm **Where** rm 337 City Hall
Environmental Projects/Activities that meet criteria (score)
 ❖ Neighborhood Improvement Grants-landscape management (ES)
 ❖ Community Appearance Awards (ES, EE)
 ❖ Promote Arbor Day, Re-leaf, City-wide cleanups, (ES & EE)
 ❖ Plantings for Town Commons (ES)
ECS 1-2

4. Firefighters Relief Fund Commission

To administer state supplemental retirement funds for retired firemen.

of members 5 **When** quarterly-2nd Wed **Where** 1st Floor room of
Police/Fire/Rescue
ECS 0

5. Greenville Bicycle and Pedestrian Commission

To advance Greenville as a bicycle and pedestrian friendly community and to encourage bicycling and walking among its citizens and visitors. To provide advice and recommendations to the Greenville City Council on questions related to bicycle and pedestrian issues.

of members 12 **When** 1st Wed @ 6pm **Where** Council Chambers
Environmental Projects/Activities that meet criteria (score)
❖ Propose bike lanes, sidewalks, trails and other pedestrian corridors (EI)
❖ Greenways updates and signage (EE)
❖ Greenville Transportation Hub (ES)
ECS 1-2
**No 2014 minutes

6. Greenville Utilities Commission

To supervise and control the management, operation, maintenance, improvement, and extension of public utilities.

of members 8 **When** 3rd Thurs @ 12 pm **Where** Conference rm Greenville Utilities
(Green St)
Environmental Projects/Activities that meet criteria (score)
❖ Drinking water intake (ES)
❖ Waste water treatment (EI)
❖ Water conservation (EE)
❖ Natural Gas (EI)
ECS 2

7. Historic Preservation Commission

To recommend to City Council properties or districts for designation as historic properties or districts.

of members 10 **When** 4th Tues @ 7pm **Where** Council Chambers
Environmental Projects/Activities that meet criteria (score)
❖ Imperial Site brownfield cleanup (ES)
❖ Asbestos in bldg (EI)
ECS 1

8. Housing Authority

To promote safe and sanitary public housing in the City

of members 7 **When** last Mon @ 5:30 pm **Where** Central Housing
 Authority
ECS 0

9. Human Relations Council

To organize and implement programs dealing with problems of human relations and promote understanding, respect, good will, and equality of opportunity for all citizens.

of members 18 **When** 1st Wed @ 7pm **Where** rm 337 City Hall
ECS 0

10. Investment Advisory Commission

To assist in developing and evaluating investment strategies and options by the staff Investment Committee in compliance with the investment guidelines in the policy for the City of Greenville.

of members 3 **When** Apr/Aug/Dec 12-2 pm **Where** rm 337 City Hall
Environmental Projects/Activities that meet criteria (score)
 ❖ Financing for Parking Deck (EI)
 ❖ Financing for Stormwater management (ES)
ECS 1

11. Neighborhood Advisory Board

Act as a bridge between neighborhood associations and local government to discuss common concerns and advocate for collective solutions.

of members 10 **When** 3rd Thurs @ 6:30 pm **Where** rm 337 City Hall
Environmental Projects/Activities that meet criteria (score)
 ❖ General EE
ECS 1

12. Pitt-Greenville Airport Authority

To operate and maintain the jointly owned City and County Airport; to establish rules and regulations for the operation of the Airport, landing field and related facilities.

of members 8 **When** 3rd Wed @ 12 pm **Where** Conf. Of Pitt-Greenville Airport
 Terminal
ECS 0-1
 ** no 2014 minutes

13. Pitt-Greenville Convention & Visitors Authority

To oversee the spending of the occupancy tax revenue; to advise and assist in the promotion of activities and programs aiding and encouraging travel, tourism, and conventions.

of members 11 **When** 3rd Thurs/odd months @ 5:30 pm **Where** Council Chambers

ECS 1

** no 2014 minutes

14. Planning & Zoning Commission

To act in an advisory capacity to conduct planning studies within the City and its extraterritorial areas and to prepare and adopt plans for achieving objectives for future development; to administer and enforce planning and zoning regulations.

of members 12 **When** 3rd Tues @ 6:30 pm **Where** Council Chambers
Environmental Projects/Activities that meet criteria (score)

❖ *Horizon Comprehensive Plan (ES)*

❖ *Future Land Use Map (ES)*

ECS 0-1

15. Police Community Relations Committee

To serve as liaison between community and police over concerns. To serve as advocate for programs, ideas, and methods to improve relationships between the community and Police Department.

of members 9 **When** 2nd Wed @ 6:30 pm **Where** ?
ECS 0

16. Public Transportation & Parking Commission

To investigate, review, and study the transit needs of the citizens of Greenville, on-street public parking policies throughout the city and the parking needs of the Uptown Area.

of members 7 **When** 3rd Wed @ 9:15 am **Where** Public Works Conf. rm
Environmental Projects/Activities that meet criteria (score)

❖ *Greenville Transportation Activity Ctr.- Environmental Report (sent to state-NC) (EI)*

❖ *Parking Deck (EI)*

ECS 1-2

17. Recreation & Parks Commission

To promote recreation and develop parks for the citizens of the City.

of members 9 **When** 2nd Wed @ 5:30 pm **Where** Council Chambers
Environmental Projects/Activities that meet criteria (score)

❖ *Tar River Legacy Plan (ES, EE)*

❖ *Town Commons Master Plan (ES, EE)*

- ❖ *Greenways (EI, EE)*
- ❖ *Tobacco-free Parks (ES)*
- ❖ *Community Gardens (EE)*

ECS 2-3

18. Redevelopment Commission

To promote redevelopment of the blighted areas within the territorial limits of the City of Greenville in the interest of the public health, safety, morals or welfare of the residents of the City of Greenville.

of members 7 **When** 1st Tues @ 5:30 pm **Where** Council Chambers
Environmental Projects/Activities that meet criteria (score)

- ❖ *Parking Deck (EI)*
- ❖ *Town Commons Master Plan (ES)*
- ❖ *Tar River Legacy Plan (ES, EE, EI)*
- ❖ *Dickinson Corridor Planning (EI)*
- ❖ *Imperial Brownfield cleanup/redevelopment (ES)*
- ❖ *Go Science Ctr (EE)*

ECS 2-3

19. Sheppard Memorial Library Board

To establish policies for the Library; to provide and maintain adequate library buildings, grounds, and equipment.

of members 9 **When** 3rd Wed Jan/Mar/July/Oct @ 5:30 pm **Where** Sheppard
 Library

ECS 0

** no 2014 minutes

20. Youth Council

To make recommendations to City Council regarding issues affecting the City of Greenville, emphasizing those issues of particular interest to youth; to provide leadership and guidance in matters relating to the youth of the City of Greenville, to individuals, to public and private organizations and agencies; and to comment on requests made to the City Council related to the areas of particular interest to young people.

of members 20 **When** 1st /4th Mon @ 6:30 pm **Where** rm 337 City Hall
Various High School Represented—Stormwater grant opportunities

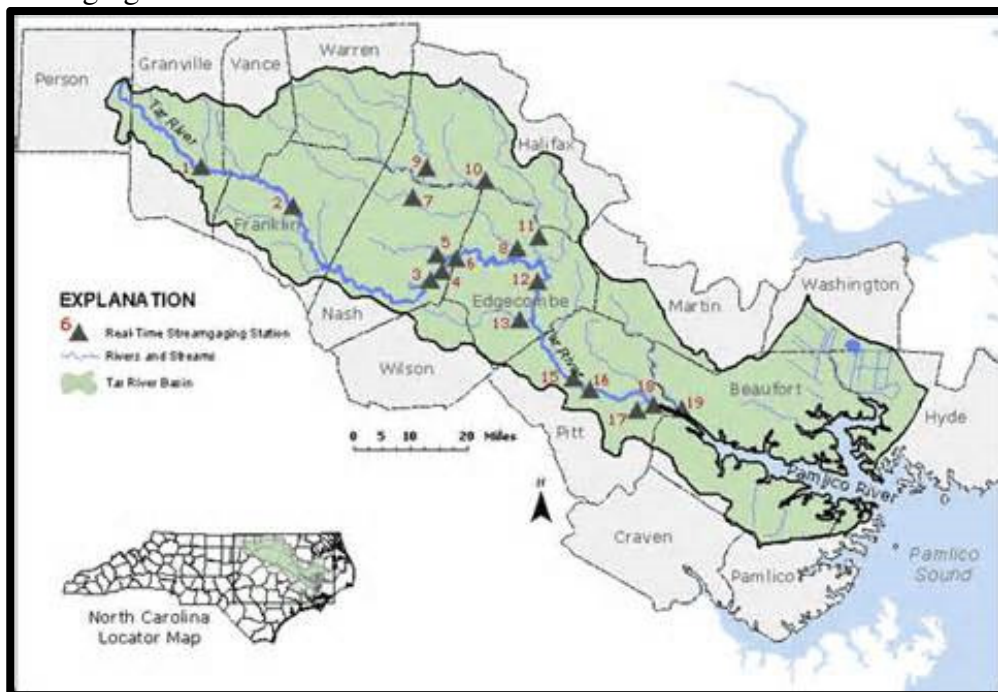
- ❖ *J.H. Rose*
- ❖ *Oakwood School*
- ❖ *Farmville Central*
- ❖ *North Pitt*
- ❖ *D.H. Conley*

ECS 1

Appendix 2. The Tar River Watershed

The Tar River in Greenville, NC is part of the Lower Tar Watershed

- ❖ Citizens’ Monitoring Network: Volunteer Monitoring
 - contact Chad Smith, 250 Flanagan Building, East Carolina University, Greenville, NC 27858 (252)328-1747,
 - Email: smithmich@ecu.edu
- ❖ USGS Cataloging Unit: 03020103



- ❖ National Estuary Program: Albermarle/Pamlico Sounds
- ❖ Watershed upstream: Upper Tar Watershed
- ❖ Watershed downstream: Pamlico
- ❖ Counties associated with this watershed
 - Beaufort
 - Edgecombe
 - Martin
 - Nash
 - Pitt
 - Wilson

Watershed Master Plan for Greenville, NC Include the Following:

- ❖ Fork Swamp
- ❖ Greens Mill Run
- ❖ Hardee Creek
- ❖ Harris Mill Run/Schoolhouse Branch
- ❖ Johnsons Mill/Parker Creek
- ❖ Meetinghouse Branch
- ❖ Swift Creek

Appendix 3. Previous EAC Environmental Projects

- a. *Resolution No. 2-2006 (2006)*: Resolution of the Environmental Advisory Commission advising City Council to request the state of North Carolina to adopt a strong mercury reduction rule.
- b. *Resolution No. 2007-01-EAC (2007)*: Resolution of the Environmental Advisory Commission endorsing the proposed ordinance to limit the clear-cutting of trees in buffer zones prior to approval of a site plan, subdivision plan, or other authorized development plan and recommending that the City Council approve the ordinance.
- c. *Resolution No. 2007-02-EAC (2007)*: Resolution requesting the City Council to support the US Mayors' Climate Protection Agreement thereby declaring the City of Greenville a "Cool City".
- d. *Public Works Department Vehicle and Equipment Idle Reduction Policy (2007)*: To eliminate all unnecessary idling of vehicles/equipment so as to improve air quality through reduced emissions and to reduce overall fuel consumption.
- e. *Letter endorsing the Resolution Requesting the Greenville Greenways Master Plan include an extension to the Pitt County District Park's walking trail (2008)*.
- f. *Resolution No. 08-68 (Energy Conservation and Environmental Design Program (2008))*: Resolution adopting a policy to implement the leadership in energy and environmental design program when constructing or renovating City Buildings.
- g. *Purchase of Appliances and Equipment: Energy Star (2009)*: To reduce its energy consumption, lower utility costs, and minimize its impact on the environment, the City of Greenville will purchase Energy Star Compliant appliances and equipment.
- h. *Environmental Purchasing Policy (2009)*: To ensure that products and services purchased or contracted will conform with the goals of City initiatives as a participant in the US Mayor's Climate Protection Agreement and the N.C. League of Municipalities Green Challenge. City Departments will strive, where feasible, to purchase environmentally preferable products and services that meet the City's needs.
- i. *Letter to Mayor Dunn and Greenville City Council (2010)* regarding Town Creek soil, groundwater, and surface water contaminated by petroleum hydrocarbons most likely from underground petroleum (gasoline and oil) storage tanks in the downtown area dating back to the 1960-80's.
- j. *Resolution EAC No. ??-2011 (2011)*: Resolution advising City Council to investigate the potential adverse affects of a proposed poultry processing plant and supporting poultry production confined animal feeding operations (CAFOs) in the Tar-Pamlico River Watershed in North Carolina.
- k. *Letter to EPA Region 4 in support of the City of Greenville's application for a Brownfield Clean-up Grant (2012)*
- l. *Resolution No. 2012-01-EAC (2012)*: Resolution endorsing the efforts of the City of Greenville to evaluate the City's current tree preservation policies by seeking input from the local development community, The Environmental Advisory Commission, The Citizen's Advisory Commission, Releaf, and any other organizations or stakeholders City staff may deem appropriate.

Appendix 4. Future EAC Projects

Wayne Caldwell thoughts on future projects

- New downtown projects and their impact on environment—storm water, air
 - Ward/Taft Complex
 - Parking Deck
 - Bus Transfer facility
 - Dickerson Ave initiative
- Riverfront commercialization
- Traffic congestion across city
- Sustainability Plan
- Low impact development
- Energy, water conservation building codes

Additional Future Projects

- Tar River Legacy Plan
- River Park North Initiatives
- Town Commons Master Plan
- Greenways Master Plan
- Watershed Master Plan
- Cool City Initiative
- Public Works Initiatives
- GUC Activities
 - water conservation
 - water treatment
 - sewage treatment

Appendix 5. Environmental Advisory Commission Internal Survey

This survey is designed to collect some of the thoughts of the members of the Greenville, NC, Environmental Advisory Commission (EAC), staff liaisons, and City Council liaisons and/or participants as they pertain to the current functioning of the EAC. The information collected will be used in the strategic planning document that will be disseminated to each participant upon its completion. (None of your individual responses will be discussed or made public in any manner.) Please select the 1 answer that best fits your thoughts on the question. (Note: All questions pertain to the EAC in Greenville, NC)

1. How are you involved with the EAC?
 - a. I am a staff liaison_____
 - b. I am an appointed member_____
 - c. I am a City Council liaison and/or participant_____
 - d. I decline in participating in this survey. (Please do not complete)_____ -
2. How long have you been involved in the capacity you selected above
 - a. 0-1 year_____
 - b. 2-3 years_____
 - c. 4-6 years_____
 - d. 6+ years_____
3. Why did you get involved with the EAC?
 - a. Concern for the natural environment_____
 - b. Natural environmental issues where not being addressed and I wanted to help change that_____
 - c. Natural environmental issues where being addressed and I wanted to support that_____
 - d. Other_____
4. In your opinion, how is the EAC functioning?
 - a. Excellent, I wouldn't change a thing_____
 - b. Ok, but there are things I would change_____
 - c. Poorly, I would revamp this Commission_____
 - d. Not sure, I have nothing to compare it to_____
5. If you could applaud one thing with the EAC, what would that be?

6. If you could change one thing with the EAC, what would that be?

Appendix 6. State of the Environment Brainstorming Session (2-20-2015)

Purpose of Event: *To provide a forum for residents of Greenville/Pitt County area to receive information regarding the health of the environment that they live, work, or play in. This event will also provide an opportunity for organizations or individuals who work on the frontline (addressing environmental issues) to share the data that they have gathered.*

1. Environmental Stakeholders (Greenville/Pitt County)

- a. Citizens of Greenville and/or Pitt County
- b. US EPA
 - i. Anne Pope, Office of Air Quality Planning Standards
- c. Greenville government
 - i. Public works
 - ii. Environmental Advisory Commission
 - iii. Parks and Recreation (River Park North)
 - iv. Animal control
- d. Pitt County government
 - i. Pitt County Soil and Water Conservation District
 - ii. Animal control
 - iii. Recycling
 - iv. Environmental services
- e. East Carolina University (ECU)
 - i. Dr. Jamie DeWitt (ECU Dept of Pharmacology & Toxicology),
 - ii. Dr. Eban Bean (ECU Dept. of Engineering, Institute for Coastal Science & Policy
 - iii. Dr. Mike O’Driscoll (ECU Dept. of Geological Sciences)
 - iv. Chuck Bangley, Hark Expert & Southern Fried Science Correspondent
- f. Pitt County Community College (PCCC)
- g. NGOs with Environmental Interest
 - i. Love A Sea Turtle
 - ii. Sierra Club
 - iii. Sound Rivers
 - iv. Relief (tree planting)
- h. Industry
 - i. Greenville Utilities
 - ii. Duke Power
 - iii. Dominion Power
 - iv. Pharmaceuticals
- i. Medical Community

2. Location of Event

- a. Convention ctr (1 site)

- b. Agriculture bldg. (2 sites)
- c. River Park North (2 sites)
- 3. Date and Time (April 2016 Earth Day)**
- 4. Budget/Resources**
- 5. Poster Session/Vendor Exhibits-morning/all day**
- 6. Speaker Session-afternoon (1-4 pm)**
 - a. Water (shed) Quality (1 pm)
 - b. Clean Power Plan (1:30 pm)
 - c. Alternative Energy Presentation (2 pm)
 - d. Animal/Plant Diversity (2:30 pm)
 - e. Human Health and the Environment (3 pm)
 - f. Waste Disposal/Recycling (3:30 pm)
- 7. Workshops (1-3 pm)**
 - a. Workshop for kids (Enviro-scape=Public works; River Park North activity) afternoon
 - b. Workshop for adults (water conservation=Greenville utilities)
 - c. Workshop for professionals (Greenville Public Works, ECU and/or PCCC)
 - i. Volunteer water quality monitoring
 - ii. Toxic waste disposal including pharmaceuticals
 - iii. Identification of native vs. invasive plants and or animals
- 8. Program Itinerary**
- 9. Survey**
- 10. Event Task Check List (sample)**
 - a. Establish planning committee_____
 - i. *Determine first meeting date, time, and location* _____
 - ii. *Establish a lead contact* _____
 - iii. *Brainstorm planning of event with some frame work in mind* _____
 - b. Commit to Date and Time
 - c. Reserve Facility
 - i. *Contact* _____
 - ii. *Audio/video* _____
 - 1. *Slide presentation template* _____
 - 2. *Audio sound check* _____
 - iii. *HA bathrooms* _____
 - iv. *HA parking* _____
 - v. *Spanish interpretation* _____
 - vi. *Other reasonable accommodations needs* _____
 - vii. *Refreshment area* _____
 - viii. *Coffee, cups, cream, sugar, water, cookies, utensils and plates, cooler/refrigerator* _____
 - ix. *Other* _____

- d. Start advertising (1st few brief in order for participants to reserve date)
- e. Start soliciting support (stakeholders willing to donate-time, space, money, other
- f. Began establishing program leads to
 - i. Invite vendors/organizations_____
 - ii. Invite speakers_____
 - iii. Invite workshop participants_____

11. Milestone Calendar for Completion of Event

Appendix 7. EAC Grant Application

Appendix 8. No Idling Resolution

EAC Draft Resolution on Motor Vehicle Idling Signs (edited) 12/3/2014

RESOLUTION OF THE ENVIRONMENTAL ADVISORY COMMISSION FOR CITY COUNCIL TO INSTALL SIGNS TO REDUCE MOTOR VEHICLE IDLING IN CITY PARKING FACILITIES

WHEREAS, motor vehicle idling is a significant air pollution and public health threat as well as a substantial economic waste; and

WHEREAS, exhaust from motor vehicles is identified by the American Lung Association as a major source of air pollution of substances harmful to humans, such as ozone, carbon monoxide, nitrogen and sulfur oxides, and fine particulates (soot)¹; and

WHEREAS, adverse health effects from vehicle exhaust include immediate, close range effects leading to asthma, cardiac events, inflammation of the bronchial passages, tissue damage, chronic disease, and early pulmonary disability¹ and the effects of exposure to exhaust are cumulative and additive;² and

WHEREAS, such effects especially impact children, the elderly, those who exercise outdoors, and those with pre-existing breathing or cardiac problems, as well as the general public;^{1,2} and

WHEREAS, two minutes of idling uses the same amount of fuel as driving one mile; it is more efficient to turn off the engine than to idle for more than 30 seconds; and ten seconds of idling uses more fuel than restarting the engine;² and

WHEREAS, North Carolina law limits the maximum time of motor vehicle idling to 5 consecutive minutes in any 60-minute period (NC Administrative Code Title 15A, Ch. 2D.1010); and prohibits the emission of visible air contaminants for longer than 5 seconds (NC GS 20-128.1) (see attached documents); and most other states have similar laws; and

WHEREAS, installing signs to encourage drivers to turn off their engines can be effective as part of educational campaigns to reduce idling time; and Pitt County Schools have installed such signs at all schools in loading zones where school buses and parents deliver and pick up children;

NOW, THEREFORE, BE IT RESOLVED that the Environmental Advisory Commission of the City of Greenville recommends to the City Council of the City of Greenville that signs encouraging drivers to turn off their engines be installed in city parking facilities at Parks and Recreation sites and in the Uptown Greenville parking lots and parking deck, in order to reduce the air pollution, public health, and economic effects of motor vehicle idling,

Examples of such signs are attached.

References:

1. American Lung Association of the Northeast,
<http://www.lung.org/associations/charters/northeast/programs/idlefree-northeast.html>
2. Dr. James Kenny, MD, report to the Environmental Advisory Commission, Nov. 6, 2014.

Appendix 9. Plastic Bag Resolution

EAC Draft Resolution on Plastic Bags (edited) 4/7/2015

RESOLUTION OF THE ENVIRONMENTAL ADVISORY COMMISSION FOR CITY COUNCIL TO PROMOTE _____

WHEREAS, plastic bags are made from fossil fuels which are included in the category of non-renewable energy resources and thus contribute to the atmospheric carbon footprint;

WHEREAS, the developmental processes for plastics include the use of polyethylene moieties, polyvinyl chlorides, phthalates, and toluenes all of which are toxicants that can adversely impact animal and human health;

WHEREAS, the health impacts on children exposed to the toxicants can be broad and severe;

WHEREAS, plastic bags are designed to be used for one specific purpose;

WHEREAS, when casually discarded, plastic bags can float, become air-borne, and can clog up channels, and damage engines; thus their impact on the environment can be devastating;

WHEREAS, because their transport within the environment is multimodal; plastic bags can have environmental and animal and human health impacts long distances from where they originated from;

WHEREAS, adverse effects occur when animals eat or become entangled in plastics;

WHEREAS, in 1999 Senate Bill 1018 was passed by the NC Legislature, said bill found that “the distribution of plastic bags by retailers to consumers . . . has a detrimental effect on the environment of the State”; plastic bags “contribute to overburdened landfills, threaten wildlife and marine life, and degrade the beaches and other natural landscapes of North Carolina’s coast”;

WHEREAS, Senate Bill??? banned the use of single-use plastic bags in Dare, Currituck, and Hyde Counties beginning in 2009; and subsequent evaluations of the impact has shown that the ban is accepted and supported by affected citizens; and

WHEREAS, similar bans have been implemented in many localities across the country; as well as, by the entire State of California.

NOW, THEREFORE, BE IT RESOLVED that the Environmental Advisory Commission of the City of Greenville recommends to the City Council of the City of Greenville to (one or more of the following):

- Work with the retail industry to develop BMPs to address this issue. The BMPs could include but not be limited to:
 - Designating an educational section within their store providing information regarding the dangers of plastic bags to the environment;

- Designating an area within their store for the purchase of cloth reusable bags; and/or
- Train their staff to not excessively use bags in packaging the customer's purchase.
- Study the feasibility of a tax on the individual bags with monies going toward recycling efforts within the city;
- Encourage all relevant city departments and entities to support a public information campaign to educate the public of the need to stop using plastic bags;
- Determine if a complete ban, by ordinance, on the distribution of plastic bags for packaging of items; is feasible within the City; and
- Work with the Pitt County Commissioners and other municipalities in Pitt County to make the chosen option(s) a county-wide effort.

Appendix 10. Citizen of Greenville Natural Environment Survey Factsheet

ATTACHMENT C

(2016 EAC Grant Call for Proposal)

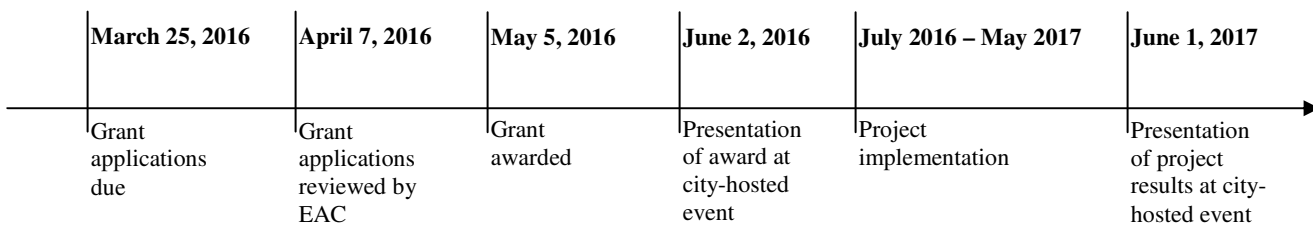
Action: For your review and approval.

CALL FOR PROPOSALS

Purpose	To increase awareness about the need for improved water quality and good storm water management techniques and their role in maintaining an overall, healthy community environment.
Total funds available	\$2,500
Grant ceiling	\$2,500
Match	A match of 25% of total grant amount awarded (see Requirements).
Financial Partnership	Although not required public-private partnerships are encouraged and will be considered a stronger proposal.
Process for grant selection	All submitted projects are reviewed by the City of Greenville Environmental Advisory Commission (EAC). Projects will be ranked according to how well they meet the requirements outlined below. Highest ranking project will be awarded the grant. If two projects are deemed to be equally qualified the EAC reserves the right to split the grant.
Requirements	<p>Projects must:</p> <ol style="list-style-type: none"> 1. Be real and measurable <i>Project must be implemented with initial results available by the end of the grant cycle. Examples of project results include: new signage, a report that demonstrates change, presentations to external groups, etc. Research projects may be submitted with the understanding that they contain an implementation component that will be started before the end of the grant.</i> 2. Increase public awareness of the issue <i>Project must include an awareness raising component to ensure the project has as wide ranging an impact as technically feasible. Examples of public awareness can be: creating and distributing a "fact sheet", holding an event where the importance of storm water management is discussed, creating signage to raise awareness on the issue, hosting an informational day, etc.</i> 3. Involve more than one person <i>The project should involve a partnership between children, mentors and group leaders.</i> 4. Demonstrate that the project has improved stormwater run-off <i>Some examples are: Before and after pictures documenting the repair of erosion caused by ditches or streams or caused by surface run-off. Calculating the amount of run-off that will be reused or that will infiltrate as a result of the project. Before and after questionnaires indicating a change in knowledge or behavior. Reporting on the habitat of the body of water is a good indication of poor or good water quality. Traditional analytical testing.</i> 5. Provide 25% match <i>This can be in the form of volunteer time, donation of materials or direct financial contribution.</i>

	<p>6. Prepare project reporting documentation which includes:</p> <ul style="list-style-type: none"> ▪ <i>6-month status report that describes the current status of the project and the next steps anticipated</i> ▪ <i>Final report presenting the project and its outcomes</i> ▪ <i>Presentation to the EAC and City Council on the project</i> <p>Applicants must complete and submit the application package (see attached).</p>
Eligibility	Youth Organizations initiating a project located within Greenville’s City Limits are eligible to apply. Projects located in the county or Greenville’s Extra-territorial Jurisdiction <u>ARE NOT</u> eligible.
Grant cycle	July 1, 2016 – May 31, 2017
Disbursement of funds	<p>Funds will be disbursed in three installments.</p> <ul style="list-style-type: none"> • The first 45% will be distributed upon the awarding of the grant. • The second 45% will be upon receipt of invoices indicating that 75% of the first disbursement has been spent. • The final 10% will be disbursed upon final submission of project and financial report and presentation to EAC/City Council. <p>The level and timing of disbursements may be altered by the EAC with appropriate justification.</p>
Submission deadline	March 25, 2016

Grant Timeline:



Resources Information:

For more information about this grant please contact:

Amanda Braddy (ajbraddy@greenvillenc.gov)
 Public Works Department - Engineering Division
 1500 Beatty Street
 Greenville, NC 27834
 (252) 329-4467

APPLICATION PACKAGE

APPLICANT FORM

Form must be typed using Time Roman 12 point font. Hand-written applications **will not be accepted**

Name of Youth Organization Submitting Application	
Contact Information <ul style="list-style-type: none">• Contact person • Address • Phone number • Email	
Contact Information of Grant Administrator (if different from above) <ul style="list-style-type: none">• Contact person • Address • Phone number • Email	
Project Name	
Project Description (max. 500 words)	

Rationale for Project (max 250 words)

- Outline why this project should be funded, i.e. what will this project contribute to improving storm water management in Greenville?

Public-Private Partnerships (max. 250 words)

- Describe the partnership(s) and how they will contribute to the project

Partners or Groups Involved (max. 250 words)

- Describe the group(s) and how they will be involved in the project

<p>Risks and Responses</p> <ul style="list-style-type: none">• List any possible risks that may hinder the successful implementation of the project and note how these risks may be overcome <p>For example: --Risk: resistance from school group to take on new project. --Response: hold two informational meetings to present project; generate one page overview for students to take home to parents.</p>	
<p>Implementation Timeline</p> <ul style="list-style-type: none">• List key dates	

Benchmarks (max. 500 words)

- Describe how the effect/impact of the project will be measured

<p>Post-project</p> <ul style="list-style-type: none">• Detail any anticipated work that will need to be done once the grant is completed e.g. if a wetland is put in place, what will be needed to keep this functioning over the next 5 years.	
<p>Signature of youth organization Authorized Representative</p>	
<p>Date</p>	

BUDGET FORM

If the line item is not relevant to your proposal simply leave the line blank.

Indicate in the *Youth Group Match* column those areas where the group will contribute the required 25% match. This match may be in the form of material donations, volunteer hours or money but they must be represented as a monetary amount in the table below.

Indicate in the *Private Contribution* column those areas where the partnering organization will provide financial or in-kind support.

Budget Items		City of Greenville	Youth Group Match	Private Contribution	Totals
Design	Financial contribution				
	In-kind contribution				
Survey	Financial contribution				
	In-kind contribution				
Education	Financial contribution				
	In-kind contribution				
Construction	Financial contribution				
	In-kind contribution				
Plantings	Financial contribution				
	In-kind contribution				
Printing	Financial contribution				
	In-kind contribution				

Monitoring				
Financial contribution				
In-kind contribution				
Land				
Financial contribution				
In-kind contribution				
Other (please itemize)				
Financial contribution				
In-kind contribution				
Administration				
Financial contribution				
In-kind contribution				
Cash Sub-total				
In-kind Sub-total				
Total	1	2		

Box 1 Total grant amount requested from the City of Greenville Environmental Advisory Commission \$
 CAN NOT EXCEED \$2,500

Box 2 Total match provided by applicant \$
 MUST BE AT LEAST 25% OF BOX 1

Final Checklist

- ___ Application Form is completed, signed, and dated.
- ___ Budget Form is completed and attached.
- ___ Provided proof of location of proposing organization's project.
- ___ Letter of support is attached. (optional)

Send complete application packet to:

Ms. Amanda Braddy
Public Works Department - Engineering Division
1500 Beatty Street
Greenville, NC 27834

DEADLINE: MARCH 25, 2016

ATTACHMENT D

(Recycling Report)

Action: For your information.

Percentage of Recycled Material from Total Refuse Collected by Tons 2011-2015

