

**FORSYTH COUNTY
BOARD OF COMMISSIONERS**

MEETING DATE: FEBRUARY 9, 2015

AGENDA ITEM NUMBER: 8

SUBJECT:

**RESOLUTION AUTHORIZING SUBMISSION OF A GRANT APPLICATION TO THE
NORTH CAROLINA FOREST SERVICE, URBAN AND COMMUNITY FORESTRY GRANT
PROGRAM TO DEVELOP A STREAMBANK STABILIZATION GUIDE, WORKSHOPS,
AND PROJECT IN FORSYTH COUNTY
(FORSYTH COUNTY COOPERATIVE EXTENSION SERVICE)**

COUNTY MANAGER'S RECOMMENDATION OR COMMENTS: Recommend Approval

SUMMARY OF INFORMATION:

The North Carolina Forest Service, Urban and Community Forestry Grant Program supports efforts to enhance the benefits and sustainable management of urban forests. The Forsyth County Cooperative Extension Service has developed a grant application in the amount of \$10,000 to conduct educational workshops to understand small-scale solutions to streambank erosion problems. These grant funds will be used to develop a streambank stabilization guide, conduct hands-on workshops, and implement a streambank stabilization project.

No additional County funds are requested as a part of this grant.

The Urban and Community Forestry Grant period is from March 1, 2015 to July 31, 2015.

ATTACHMENTS: YES NO

SIGNATURE: _____

J. Rodney Clatto, Jr.
COUNTY MANAGER

DATE: February 5, 2015

**RESOLUTION AUTHORIZING SUBMISSION OF A GRANT APPLICATION TO THE
NORTH CAROLINA FOREST SERVICE, URBAN AND COMMUNITY FORESTRY
GRANT PROGRAM TO DEVELOP A STREAMBANK STABILIZATION GUIDE,
WORKSHOPS, AND PROJECT IN FORSYTH COUNTY
(FORSYTH COUNTY COOPERATIVE EXTENSION SERVICE)**

WHEREAS, the Forsyth County Cooperative Extension Service requests authorization to apply for a \$10,000 grant from the North Carolina Forest Service, Urban and Community Forestry Grant Program, to develop a streambank stabilization guide, conduct workshops, and implement a streambank stabilization project;

NOW, THEREFORE, BE IT RESOLVED by the Forsyth County Board of Commissioners that the Chairman or County Manager and the Clerk to the Board are hereby authorized to execute, on behalf of Forsyth County and the Forsyth County Cooperative Extension Service, necessary documents to apply for grant funds from the North Carolina Forest Service, Urban and Community Forestry Grant Program in the amount of \$10,000 to develop a streambank stabilization guide, conduct workshops, and implement a streambank stabilization project, subject to a pre-audit certificate thereon by the Chief Financial Officer, where applicable, and approval as to form and legality by the County Attorney.

Adopted this 9th day of February 2015.

U&CF 2015 APPLICATION FORM

North Carolina Urban and Community Forestry Grant

Project Title:

Cooperative Extension Leading Innovative Streambank Stabilization Efforts in NC

Project Location (City):

Kemersville, Winston Salem

(County):

Forsyth

Applicant (Organization) Name:

Forsyth County Cooperative Extension

Address:

1450 Fairchild Rd

City:

Winston Salem

State:

NC

Zip Code:

27105

Primary Contact Person/Title:

Wendy Hartup

Phone:

336-703-2850

Fax:

336-767-3557

E-mail:

wendy_hartup@ncsu.edu

Employer Identification Number (EIN) (Required): 66-6000460

Fiscal Year End (month/day): 6 / 30

DUNS Number: 071569586

Brief List of Project Objectives:

Understand why buffers filled with native plants are important.
 Learn how to properly select appropriate vegetation and manage non-native, invasive species.
 Understand small-scale solutions to healthier buffers which can improve stream water quality.

Grant Funds Requested \$ 10000

Cash Match \$

In-Kind Match \$ 8107

Total Amount of Project \$ 18107

Project Type (check one that best applies)

U&CF Program Development

U&CF Program Improvement

Education & Information/Training

Non-Profit Program Development

Tree Planting

Demonstration & Site Specific

Applicant Description

local govt.

non-profit 501(c)(3)

educational institution

state govt.

other (describe)

Is this community a Tree City USA? YES

Community population 26000

Is the organization a member of the NC Urban Forest Council? Yes No Pending

Has this organization received a U&CF grant in the past? Yes No

If yes, what grant year(s)?

As a duly authorized representative of the organization making this application, I hereby certify that, to the best of my knowledge, all information provided herein is true and represents the desires of this organization. I further certify that I understand the purpose and rules of the program as outlined in the Application Package.

Wendy Hartup

Printed Name of Authorized Representative

Natural Resources Extension Agent

Title/Position

Signature of Authorized Representative

1/22/2015

Date

Proposal Narrative

Project Title: Cooperative Extension Leading Innovative Streambank Stabilization Efforts in NC

Background: Cooperative Extension in Forsyth County offers many education opportunities to teach about tree care and selection; the Tanglewood Arboretum is maintained by Cooperative Extension volunteers and is used as an outdoor classroom for children. An urban tree foundation grant to provide canopy trees to homeowners and community groups is housed with Forsyth County Cooperative Extension. Kernersville and Winston Salem are both Tree City USA communities and have done many programs in the past to promote tree planting.

Objectives:

Understand why buffers filled with native plants are important.

Learn how to properly select appropriate vegetation and manage non-native, invasive species.

Understand small-scale solutions to healthier buffers which can improve stream water quality.

Statement of Need: Nonpoint source pollution is recognized as the leading contributor to water quality degradation in the United States. Additionally, the effectiveness of streamside vegetated buffers in reducing pollutant loads to streams is well known. It is common for natural resource professionals and municipalities to receive requests for assistance to correct severe stream erosion that has resulted from a variety of causes including removal of vegetation, invasive plants grow out of control but do not stabilize the land and an increase in impervious surfaces in the watershed. These concerns are communicated after the problem is so advanced that it is beyond the technical expertise of local staff to provide assistance. Traditional methods of streambank stabilization (walls, rip rap, gabion baskets, etc.) are failure prone and cost prohibitive as well as counter productive to ecosystem health. These established, successful programs will target High Rock Lake Watershed citizens and empower them with ideas on how to improve streambank health, water quality and wildlife habitat within their own communities as well as provide a local demonstration site to visit.

Strategy/Methods: Conduct 3 established workshops for homeowners, local government personnel, landscapers, utility workers, park managers and target folks within the High Rock Lake Watershed (working with local Cooperative Extension offices, Soil and Water Conservation Districts and municipalities).

Workshop 1: Invasive Species Identification and Management Methods

This will be a hands-on, interactive class (3 hr class). Samples of 20 plants known to be invasive in natural ecosystems, right of ways, farm land, and landscapes will be examined for identification characteristics, significance, historical impacts, and best management strategies. Emphasis will be on woody plants listed by the US Forest Service and NC Dept of Agriculture as being invasive and/or plants of concern. Attendees will learn techniques to properly manage common invasives (cut and wipe, scrape and squirt, etc.) as well as get to remove some invasives.

1 hr Participants identify and discuss invasive samples.

1.5 hrs Participants learn removal methods and remove species.

0.5 hr Participants plant seedlings near newly removed species. (species: *Amelanchier canadensis*, *Asimina triloba*, *Betula nigra*, *Celtis occidentalis*, *Diospyros virginiana*, *Magnolia virginiana*)

Workshop 2: Backyard Buffer

Citizens learn the benefits of buffers, common native plants and go to the field to plant cuttings of woody shrubs and trees.

1 hr Discussion

1 hr Plant livestakes and seedlings (species: *Cornus amomum*, *Sambucus canadensis*, *Amelanchier canadensis*, *Asimina triloba*, *Betula nigra*, *Celtis occidentalis*, *Diospyros virginiana*, *Magnolia virginiana*)

Workshop 3: Backyard Stream Repair

Budget Proposal Form

<i>Itemize each expenditure or match value under Grant, Cash Match or In-kind Match categories</i>	Detailed Explanation of Expenditures and Match Values	Grant Funding	Cash Match	In-Kind Match
Component 1: Enhance workshop materials, conduct hands-on programs				
Grant Funding				
Publications (Backyard Stream Repair Tips and Tricks)	150 copies on 80lb gloss paper from Alpha Graphics, Winston Salem	\$2,400		
Stabilization materials (matting, straw, seed, stakes)	2 coir rolls @ \$165, 1 box ecostakes @\$89, bundle 25 2' wood stakes @ \$15.50, 60 bales @ \$8, 3lbs cover seed @ \$6, 3lbs flower seed @ \$29	\$1,020		
Plants (livistakes, herbaceous, shrubs, trees)	6 bundles livistakes @ \$40, 300 plugs @ \$1, 400 perennials @ \$3, 120 shrubs @ \$20, 32 trees @ \$75, 20 tree seedlings @ \$2	\$6,580		
Cash Match				
None expected				
In-Kind Match				
Project coordinator to create publication and oversee project	40hrs @ \$25			\$1,000
Kernersville vegetation removal and grading	Crew of 6 @ \$15/hr @ 40hrs			\$3,600
Volunteer invasive removal and planting	35 volunteers @ 22.55 @4hrs			\$3,157
Beautyberry shrubs donated	20 @ \$5 each			\$100
Subtotals		\$10,000	\$0	\$7,857
Component 2: Evaluate results and send in report				
Grant Funding				
Cash Match				
In-Kind Match				
Project coordinator	10 hrs @ \$25			\$250
Subtotals		\$0	\$0	\$250
TOTALS		\$10,000	\$0	\$8,107

Photocopy if additional space is needed. Form may be downloaded at: http://ncforestservice.gov/Urban/urban_grant_applying.htm

Schedule/Timeline

This form, at minimum, must include the key or milestone activities of the project. These activities should also be addressed in the budget, that is, all elements included in the budget as grant or match; this includes the paid activities and volunteer or staff estimates.

What will be done	Who will do it	When will it be started and completed	Evaluation/ Documentation
Create publications for print	Project lead	March 2015	Invoices and final documents
Submit Army Corps of Engineers PCN Permit	"	March 2, 2015	approved letter for work
Order materials and plants for workshops	"	March 23, 2015	invoices
Backyard Buffer Workshop	"	April 1, 2015	List of attendees, installed livestakes
Begin grading on streambank	"	April 6, 2015	Town of Kernersville grades (in-kind match)
Invasive Plant ID and Removal	"	April 8, 2015	List of attendees
Backyard Stream Repair Workshop	"	April 9, 2015	List of attendees, surveys, installed practice
Survey participants	"	August 2015	Compile survey results
Reporting			
Submit Mid-Year Status Report	Project Coordinator	March 1, 2015	Mid-Year Status Report form
Submit Final Accomplishment Report and final Reimbursement Request	Project Coordinator	July 31, 2015	Final Accomplishment Report form; Accomplishment Narrative; additional required documentation; Request for Reimbursement form with invoices.