


ATTACHMENT A
to the GRANT AWARD AGREEMENT
between Lexington-Fayette Urban County Government (LFUCG) and
Friends of Wolf Run Inc.
Streamside Buffer Stewardship Program

GRANT PROGRAM: FY2012 Stormwater Quality Projects Incentive Grant Program
Class A (Neighborhood) Projects

- Funded through the LFUCG Water Quality Management Fee
- Administered by the LFUCG Division of Water Quality in the Department of Environmental Quality

PROJECT TEAM AND CONTACT INFORMATION

Organization: Friends of Wolf Run, Inc. (FOWR)
639 Cardinal Lane
Lexington, KY 40503
KY Organization #: 0612068

Organization President: Bruce Hutcheson, President 
859-619-2233
friend@wolfrunwater.org

Primary Project Contact and Project Manager: Ken Cooke, Secretary
859-940-8234
ken.cooke@canewoods.com
Will serve as project manager; providing project administration, grant reporting, and volunteer management.

Secondary Project Contact: Frances Stokes
859-494-6515
fcstokes@hotmail.com

FOWR Board of Trustees: Will provide financial oversight and sponsorship.
Bruce Hutcheson, President
Lisa Collins, Vice-President
Frances Stokes, CPA, Treasurer

Project Steering Committee: Provide Program operations and support
Russ Turpin, Materials Manager
Dr. Julian Campbell, Plant Materials Selection
Ann Bowe, Landscape Designer
Jean Watts, Water Quality Specialist, BCTC
Laurie Thomas, LFUCG Park Naturalist, McConnell Springs Park

Stewardship Groups: Clay's Mill Greenway: Sandy Schafer, Julian Campbell, Picadome Neighborhood Association
Bob-O-Link Drive Greenway: Jennifer Erena, Picadome Neighborhood Association
Allendale Drive Greenway: Jean Watts, Bluegrass Community and Technical College
Roanoke Drive Greenway: Wendy Havens, Port Royal Neighborhood Association
Preston's Cave Spring: Billie Offutt, Cardinal Valley Neighborhood Association, MMSK, LFUCG Environmental Council
Eastway Wetland: Janet Cabanis and Thomas Martin, Hill-N-Dale Neighborhood Association with Southland Association
Goodrich Drive Greenway: Michael Peabody and Ann Bowe, WPGL Neighborhood Association

Spring Meadows Corridor: Layton Register, Spring Meadows Homeowners Association

- LFUCG Contacts:** Keith Lovan, Division of Engineering: Review and approve work on Wolf Creek and LFUCG Greenways
Michelle Kosieniak, Parks and Recreation: Review and approve work on LFUCG Parks
Tim Clark, LFUCG Parks and Recreation: Approve planting plans on park property; work with mowing contractors to insure that native plants will not accidentally be destroyed
Tim Query, Streets, Roads, and Forestry: Review and approve plant materials lists; assist with removal of cuttings
- Cooperating Groups:** Friends of Griffith Woods: Pamla Wood. Sources of plant materials; and installations
Bluegrass Community College: Tracey Knowles. Volunteer workers
Dropseed Nursery: Margaret Shea. Plant materials consultation
Fish and Wildlife Habitat Improvement Program: Plant materials

PROJECT PLAN ELEMENTS

The goals of the Streamside Buffer Stewardship Program are to recruit, train, and supply volunteer stewardship groups to assist streamside property owners, including LFUCG, in managing vegetative riparian buffers along Wolf Run and its tributaries. The project seeks to accomplish 3 objectives: improvement of the quality of the streamside buffers, engagement of the public in the understanding of the purpose and function of these vegetative buffers in order to reduce complaints from adjacent residents, and providing a test/demonstration area that private property owners can use to adopt similar practices on their streamside areas. Restoration of the native vegetative buffer will help water quality by: increasing nutrient uptake, shading the creek to reduce algae blooms and macrophite infestations, filtering runoff, and stabilizing banks and reducing erosion.

Eight streamside buffer enhancement areas have been previously identified and improved. For those areas, maintenance operations will include removal of invasive plants and trash, pruning, and in-fill and replacement plantings. These areas include:

1. Clays Mill Greenway (Wolf Run) - 1869 Clays Mill Road
2. Bob-O-Link Drive Greenway (Big Elm Fork of Vaughn's Branch) - 398 Bob-O-Link Drive
3. Allendale Drive Greenway (Springs Branch, Wolf Run) - 790 Allendale Drive
4. Roanoke Drive Greenway (Wolf Run) - 1514 Roanoke Road
5. Preston's Cave Spring (McConnell Springs Branch) - 1935 Dunkirk Drive
6. Eastway Wetland - Eastway and Sunseeker Drives
7. Goodrich Drive Greenway (Wolf Run) - 1875 Goodrich Drive
8. Spring Meadows Corridor - Spring Meadows Townhomes

There are three new areas that have not had active buffer management programs in place. Tasks for new initiatives include:

- Identification and recruitment of volunteer stewards
- Leadership Planning Stream Walk with consulting botanists and resource managers
- Development of Planting Plan
- Trash and Invasive Plant removal work days
- Purchase of native plant materials
- Planting work day

These site locations include:

1. Cross Keys Park
2. Gardenside Park
3. Wolf Run Park

The project consists of 5 basic project elements:

- 1) ***Project Management and Stewardship Leadership Recruitment:*** Developing and managing the program, and recruiting and training leadership for the new initiative areas. Also involves identifying key volunteers to serve as ongoing stewards of the greenways to organize follow up efforts, to keep invasive plants in check, water plants, and to organize additional work days to continue beyond the scope of this project. Another outcome of educating increasing numbers of volunteers is the development of local project teams to the point where they can organize to seek their own funding and support to continue stream buffer maintenance and restoration.
- 2) ***Educational Outreach:***
 - a) Specialists will discuss water quality, habitat and stream side buffer issues, and management strategies with residents via stream walks and planning meetings. We will also discuss and seek approval for a remediation plan for the stream from those participating. Local residents will be invited via email, door to door flyers, post cards, and by word of mouth.
 - b) The UK Extension office pamphlets on streamside buffers will be provided to residents.
 - c) Educational signage designed by *Signs Now* will be installed at 10 locations explaining the purpose of the buffer area and to help prevent accidental damage of the planted areas.
- 3) ***Removal of Invasive Plants:*** The Friends of Wolf Run Partners and volunteers will use hand tools to remove bush honeysuckle, garlic mustard, multi-flora rose, and Japanese Knot Weed. The cut shrubs will be treated with herbicides in accordance with practices developed by the Invasive Plant Working Group.
- 4) ***Native Plantings:*** Planting plans for each area will be developed, and volunteers will plant perennials, shrubs, and trees according to a specified planting plan.

Water Quality Meter: A Hanna HI9828/4 Multiparameter Water Quality Meter will be purchased for water quality sampling and monitoring by Friends of Wolf Run and other similar organizations.

Specifications: HI 9828 Hanna Multiparameter Water Quality Portable Meter, supplied with HI 769828 multisensor probe (pH/ORP, EC, DO, temperature), HI 9828-25 quick calibration standard solution (500 mL), probe maintenance kit, rechargeable C size Ni-MH batteries (4), power adapter & cable, car 12V accessory outlet adapter, HI 7698281 USB interface cable, HI 92828 Windows® compatible software and instruction manual in a rugged carrying case, 4 meter cable.

REPORTING REQUIREMENTS

In addition to the reporting requirements outlined in the Grant Award Agreement, the following special items are noted for this project:

- 1) The Organization shall submit copies of the herbicide application plan to the LFUCG Grant Manager prior to work beginning.
- 2) The Organization shall provide written authorizations for private property (including LFUCG Parks) access to the LFUCG Grant Manager prior to work on any area for which they are required.

EQUIPMENT

The *Hanna HI9828/4 Multiparameter Water Quality Meter* shall become the property of LFUCG at the end of the Grant, and the meter shall be made available by LFUCG to Friends of Wolf Run and other organizations on request for use in Fayette County.

PERMANENT FACILITIES/INFRASTRUCTURE

Permanent Capital Infrastructure: This grant does not include “Permanent Capital Infrastructure” as defined in the Grant Award Agreement. Attachments B and C are not required for this Agreement.

Monitoring: The Organization agrees to allow LFUCG staff access to the project site to monitor the installed features for compliance with this agreement. Water quality sampling via grab samples or other methods may be employed by LFUCG staff as part of LFUCG’s annual reporting requirement of its Kentucky Pollutant Discharge Elimination System (KPDES) MS4 Phase 1 permit.

CONSTRUCTION ACCESS

If work is to be performed on private property, the Organization is responsible to obtain authorization from the affected property owner(s) allowing such access. No permanent feature (including plantings), shall be placed upon private property without prior signed authorization from the owner.

ADDITIONAL GRANT STIPULATIONS

Design, construction, and plant installation shall meet the following requirements:

- a) The proposed work shall be planned so as to not trigger a FEMA No Impact Certification or Kentucky Division of Water Stream Construction or 401 Certification or U.S. Corps of Engineers 404 permit.
- b) Project sites shall be reviewed by the Division of Water Quality for upcoming sanitary sewer projects prior to implementation. Contingency sites can be used if a conflict is found.
- c) All existing utilities shall be located, contacted, and coordinated with prior to any work being performed as necessary.
- d) Planting of trees over existing utilities can only be done if written approval by the utility is provided to LFUCG prior to planting.
- e) No trees shall be planted within 5 feet of any sanitary sewer system or storm drainage pipe.
- f) If herbicides are proposed to be used, a plan for appropriate application controls shall be submitted to LFUCG prior to use, and shall be followed during applications.
- g) A letter of support from LFUCG Parks & Recreation is required prior to performing any work on LFUCG owned park properties.

GRANT PERIOD & PROJECT SCHEDULE

The grant period starts on the date of execution of the Grant Award Agreement by the Mayor and extends for the time period as listed in the Grant Award Agreement. Any time extensions must be approved in writing by the LFUCG Incentive Grant Manager. The project schedule shown in Table 1 is preliminary. Proposed changes to the project which alter this schedule significantly shall be discussed with the LFUCG Grant Manager prior to implementation.

Table 1. gives the anticipated project schedule.

TABLE 1. PROJECT SCHEDULE-Friends of Wolf Run: Streamside Buffer Stewardship Program

Activity	Anticipated Date
Approval Grant Award Agreement	Within 1 week of Grant Award Notification
Convening of project steering committee	Within 1 week of Grant Award Notification
Identification of new project startup areas	Within 30 days of Grant Award Notification
Conduct stream walks in new project areas	November 2011
Conduct stream clean up and trash removal	November 2011
Conduct invasive plant removal work days	November, 2011; March - April 2012
Conduct spring native plant installations	March – May 2012
Follow up work days in existing riparian areas	November 2011 – May 2012
Conduct fall native plant installations	October – November 2012
Final Report to LFUCG	January 2013

PROJECT BUDGET – GRANT ELIGIBLE EXPENSES & ORGANIZATION MATCH

Table 2. lists the Eligible Expenses for this project. Only properly invoiced items shall be reimbursed with grant monies or counted toward the Organization's match. Any work performed on this project prior to grant award by Urban County Council and Notice to Proceed from the LFUCG Grant Manager is not an eligible expense and shall not be reimbursed or counted toward the match, except for the following which will be allowed to count toward match only:

- Activities occurring from October 31, 2011 forward that generate match through Volunteer Hours or Donated Professional Service hours.

This is being allowed for this project due to the time sensitive nature of the planting work.

Hours worked by participants under the age of 12 shall not be counted toward the match.

TABLE 2. ELIGIBLE EXPENSES

BUDGET TABLE: FRIENDS OF WOLF RUN, INC. - STREAMSIDE BUFFERS

Type of Expense	Participants	Item	Unit Price	Quantity	Funded by Organization	Funded by Grant	Total Expense
Project Element: Project Management							
Volunteer Hours	FOWR Leadership	Grant Management	\$ 7.25 per hour	55	\$ 398.75	\$ -	\$ 398.75
Project Element: Removal of Invasive Plants							
Donated Professional Service Hours per Occupation Code 19-1013 KY	Horticultural Scientist volunteers	Consultation on Invasive plant identification, removal etc.	\$ 22.54 per hour	10	\$ 225.40	\$ -	\$ 225.40
Supplies	Friends of Wolf Run Partners and Volunteers	Trash Bags, Herbicide, Gloves, refreshments, supplies, and materials for Invasive Plant Removal	\$ 100.00 per project site	10	\$ -	\$ 1,000.00	\$ 1,000.00
Volunteer Hours	FOWR Partner Volunteers	Volunteer Work Hours for Invasive Plant Removal	\$ 7.25 per hour	200	\$ 1,450.00		\$ 1,450.00
Professional Services	Dave Leonard, Arborist	Chipper, operator, and mulch return for Invasive Plant Removal	\$ 80.00 per hour	9	\$ -	\$ 720.00	\$ 720.00
Project Element: Educational Outreach							
Volunteer Hours	FOWR Partners and Volunteers	Stream Walk and Planning Meetings	\$ 7.25 per hour	50	\$ 362.50		\$ 362.50
Printed Materials	FOWR Partners and Volunteers	UK Extension Publications for stream buffers	\$ 1.25 each	200	\$ -	\$ 250.00	\$ 250.00
Materials	LFUCG and Signs Now	Educational Signage: Aluminum sign, decal, and post with hardware	\$ 50.00 each	10	\$ -	\$ 500.00	\$ 500.00
Project Element: Planting of Native Plants							
Materials and Supplies	FOWR Partners and Volunteers	Native Plants and planting supplies for Existing Stewardship Site	\$ 500.00 per project site	7	\$ -	\$ 3,500.00	\$ 3,500.00
Materials and Supplies	FOWR Partners and Volunteers	Native Plants and planting supplies for New Stewardship Sites	\$ 1,000.00 per project site	3	\$ -	\$ 3,000.00	\$ 3,000.00
Volunteer Hours	FOWR Partners and Volunteers	Volunteer Work Hours for Native Plantings	\$ 7.25 per hour	200	\$ 1,450.00	\$ -	\$ 1,450.00
Project Element: Hanna Multiparameter WQ Meter							
Equipment and Supplies	FOWR	Hanna HI 9828 Multiparameter Water Quality Meter and supplies: - Quick calibration solution - A/P D.O. membranes - storage solution - Electrolyte solution for D.O. sensor	\$ 2,800.00 each	1	\$ -	\$ 2,800.00	\$ 2,800.00
TOTAL PROJECT BUDGET:					\$ 3,886.65	\$ 11,770.00	\$ 15,656.65
					ORGANIZATION SHARE 24.8%	GRANT SHARE 75.2%	

* NOTE: Class A grants require a minimum 20% grant = \$2,942.50