

**GRANT AWARD AGREEMENT**

***Fiscal Year 2019 Class A Incentive Grant Program***

**THIS AGREEMENT**, made and entered into on the 7 day of March, 2019 by and between the **LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT**, an urban county government of the Commonwealth of Kentucky, pursuant to KRS Chapter 67A (hereinafter "Government"), on behalf of its Division of Water Quality, and **FRIENDS OF WOLF RUN INC.**, 639 CARDINAL LANE, LEXINGTON, KENTUCKY 40503, (hereinafter "Grantee").

**WITNESSETH:**

**WHEREAS**, the Government has funds available through the Stormwater Quality Projects Incentive Grant Program to assist qualified applicants in the implementation of projects that meet the goals of the program; and

**WHEREAS**, the Grantee represents directly or indirectly a group of single-family residences in Fayette County who are fee-payers of the Government's Water Quality Management Fee; and

**WHEREAS**, the Grantee has proposed a need for the funds requested to develop and implement a proposed project by submitting a valid grant application; and

**WHEREAS**, the Grantee desires to implement a specific project that meets one or more Incentive Grant program goals to improve water quality, reduce stormwater runoff, and provide public or private education related to stormwater quality for the benefit of its members, community, and the general public; and

**WHEREAS**, the Grantee's grant application has been reviewed and selected for funding by the Government's Water Quality Fees Board in accordance with Sections 16-408 and 16-410 of the Government's Code of Ordinances;

**THAT FOR AND IN CONSIDERATION OF THE MUTUAL PROMISES AND COVENANTS HEREIN EXPRESSED, GOVERNMENT AND GRANTEE AGREE AS FOLLOWS:**

- (1) The Government hereby grants the Grantee the sum of **\$62,391.20** (hereinafter "the Grant"), for use in implementing the project elements as listed in Attachment A which is incorporated herein by reference as if fully set out herein.
- (2) The Grantee agrees to match the Grant with contributions, labor and other services equal to or greater than 20% of the total project cost.
- (3) The Grantee agrees to use the Grant only for the activities set forth in Attachment A.
- (4) The Grantee agrees to perform periodic reporting as detailed in Paragraph 5 herein below, and provide to the Government a Project Final Report, in digital and hard copy, within thirty (30) calendar days of the completion of the project elements following a standardized format to be provided by the Government summarizing all work completed and detailing the total grant expenditures.

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- (4) The Grantee agrees to perform periodic reporting as detailed in Paragraph 5 herein below, and provide to the Government a Project Final Report, in digital and hard copy, within thirty (30) calendar days of the completion of the project elements following a standardized format to be provided by the Government summarizing all work completed and detailing the total grant expenditures.

- (5) The Grant to the Grantee shall be disbursed in the following manner:
- (a) The Grantee shall submit, at least once every three (3) months, a *Grant Reimbursement Form* and a *Request for Funds*, in standardized format provided by the Government, to the Government's Grant Manager designated by the Director of the Division of Water Quality for the project. The *Request for Funds* shall include documentation that the Grantee has already expended the requested funds or shall be in a position to expend properly the requested funds within thirty (30) days of receipt of the funds. The *Request for Funds* shall include full accounting of all eligible grant-related expenses, as listed in Attachment A. Copies of invoices, purchase orders, or receipts showing vendor, date, amount, and items purchased or ordered shall be provided with the *Request for Funds*.
  - (b) Each *Request for Funds* shall include documentation of all of the Grantee's Match Costs listed in Attachment A and claimed for the prior period. For cash expenditures this shall include receipts, showing vendor paid, date, amount, and items purchased. For volunteer hours this shall include sign-in sheets describing the events with signatures, name, address, time in and time out (or length of event), for each participant (volunteers must be 12 years of age or older). For mileage, this shall include driver name, type of vehicle, location to and from, date, and miles driven.
  - (c) Each *Request for Funds* shall be accompanied by a *Project Status Report*, in a standardized format provided by the Government, describing the progress of the project to date, including a description and schedule of all activities completed, and hardcopy or electronic copies of materials completed and/or used to date. For educational events (if applicable), copies of the class sign-in sheets documenting the number of attendees shall be provided.
  - (d) The Government's Grant Manager shall review each *Request for Funds* and supporting documents for compliance with the terms of this Agreement and the guidelines of the Stormwater Quality Projects Incentive Grant Program. If the Government's Grant Manager finds the Grantee's *Request for Funds* is in compliance with the terms of this Agreement and the Program's guidelines and that the activity progress and management program of the Grantee satisfy the terms of this Agreement, he or she shall approve the *Request for Funds* within 15 days of receipt, and then forward it to the Division of Accounting for payment.
  - (e) Should the Government's Program Administrator determine that the Grantee is not in compliance with the terms of this Agreement and/or the Stormwater Quality Projects Incentive Grant Program, including deficiencies in progress and/or management of the project, the Division of Water Quality shall notify the Mayor's Office and the appropriate district Council person and shall meet with the Grantee on matters that prevent approval of the *Request for Funds*. Failure to resolve any such matters to the satisfaction of the Government may lead to termination of the Agreement for cause pursuant to Paragraph 25 herein below.
  - (f) The Government shall release payment of the final 3% of the Grant only after receipt and acceptance of the Project Final Report. The Government's Grant Manager shall review the Project Final Report and provide comments to the Grantee within 15 calendar days or, if acceptable, forward approval to the Division of Accounting for payment.
- (6) For any project which includes installation of permanent capital infrastructure as listed in Attachment A (not to include individual rain barrels, small rain gardens, and pond equipment), the Grantee agrees to meet all design standards specified in the Government's Engineering Manuals and/or as further described in Attachment A in the design of all Grant-funded improvements. This includes all associated activities including but not limited to erosion and sediment control, traffic control, utility relocations, seeding, etc. The Grantee further agrees to design the facilities in such a way as not to preclude the potential for future water quality/quantity monitoring by the Government.

- (7) For any project which includes installation of permanent capital infrastructure as listed in Attachment A, the Grantee agrees to provide in hard copy and electronic format the following deliverables as they become available, each sealed by a Professional Engineer licensed in the Commonwealth of Kentucky (or Registered Landscape Architect when allowed by Kentucky Revised Statutes 323A.010):
- Design calculations;
  - Final construction plans, including erosion and sediment control plans, traffic control plans, grading plans, etc.;
  - Final specifications and bidding documents (if applicable);
  - Detailed engineer's construction cost estimate including quantities;
  - Inspection, Operation, and Maintenance Plan laying out the plan for regular inspection and maintenance of each proposed facility for design performance and safety in accordance with manufacturer's specifications and the Government's Stormwater Manual.
  - Copies of all federal, state, and local permits, approvals, encroachments, etc. obtained for the project.
  - Record Drawing showing all field changes, and signed and sealed by the professional of record certifying the project as shown meets all original design intent.
  - Photo documentation of site conditions and improvements before, during, and after construction.
- (8) For any project which includes installation of permanent capital infrastructure listed in Attachment A, the Grantee shall provide, by the end of the design phase, certification by a Professional Engineer or Registered Landscape Architect licensed in Kentucky that all stormwater control facilities proposed for this project are feasible and viable Best Management Practices (BMPs) for controlling stormwater quality and/or quantity and are appropriate for the project site.
- (9) The Grantee agrees that any and all stormwater control facilities, including equipment and infrastructure, constructed or purchased with Grant monies shall remain the property of the Grantee, or the current property owner, or his successors and assigns, unless otherwise noted in Attachment A.
- (10) The Grantee agrees that all stormwater control facilities, including equipment and infrastructure shall remain in service and maintained by the Grantee or its representatives for at least the Service Life listed in Attachment A. For capital infrastructure, this shall include following the Inspection, Operation, and Maintenance Plan developed for each facility referenced in Paragraph 7 above. For capital infrastructure, the Grantee further accepts and agrees to enter into the "Agreement to Maintain Stormwater Control Facilities for Class A Incentive Grant Projects" attached hereto as Attachment B and which is incorporated herein by reference as if fully set out herein.
- (11) The Grantee agrees, and all individual property owners with grant-funded improvements installed on their properties shall agree, to allow the Government access to perform monitoring of the project elements for compliance with this Agreement.
- (12) The Grantee agrees to comply with all applicable local, state, and federal rules, regulations, ordinances, and laws in implementation of the project.
- (13) The Grantee agrees to obtain all necessary local, state, and federal permits and approvals in a timely manner and prior to the start of any work requiring such permits or approvals.
- (14) The Grantee agrees to obtain written approval from the Government's Grant Manager or Program Administrator for any proposed changes to the Project Team or Project Plan as listed in Attachment A prior to implementing the changes. Failure to gain written approval prior to making changes may lead to termination of the Agreement for cause pursuant to Paragraph 25 herein below.
- (15) The term of this Agreement shall be from the date of this Agreement until completion of the project outlined herein. The Grantee agrees to complete the project within 24 months from the date of this Agreement. The Grantee agrees to obtain written approval from the

Government's Grant Manager or Program Administrator for any time extensions beyond the grant period. Failure to gain written approval prior to making changes may lead to termination of the Agreement for cause pursuant to Paragraph 25 herein below.

- (16) The Grantee understands that the **Grant shown herein in Paragraph 1 is a not-to-exceed amount**, and any additional funding needed to complete the project elements listed in Attachment A is the responsibility of the Grantee. If it becomes apparent to the Grantee or the Government that the Grantee will be unable to complete the project either in the manner or for the amount described in this Agreement, then the Grantee must immediately notify the Government's Grant Manager and Program Administrator by providing a complete and detailed written explanation of its inability to comply with the terms of the Agreement. The Grantee must further provide the Government's Grant Manager and Program Administrator with a complete and detailed written explanation of any proposed changes, and the reasons for those changes.
- (17) The Grantee asserts that it is an incorporated organization registered in active status with the Commonwealth of Kentucky Secretary of State, and is in full compliance with all applicable provisions of the Lexington-Fayette Urban County Government's Code of Ordinances Chapter 5 – Buildings and Building Regulations, Chapter 7 – Finance and Taxation, Chapter 12 – Housing, and Chapter 16 – Sewage, Garbage, Refuse, and Weeds, or in compliance with Kentucky Department of Housings Buildings and Construction rules and requirements as is appropriate for those state institutions, parcels, or buildings which are subject to state regulations and oversight as opposed to local ordinances and regulations. If the Grantee becomes out of compliance with any of these provisions, it will contact the Government's Program Administrator immediately. Failure to resolve any such matters to the satisfaction of the Government may lead to termination of the Agreement for cause pursuant to Paragraph 25 herein below.
- (18) This Agreement may not be modified except by written agreement of the Government and the Grantee.
- (19) In any advertisement of the grant-funded project, whether oral or written communications, the Grantee agrees to identify the Lexington-Fayette Urban County Government as the source of the above referenced funds; the Grantee shall not specifically identify any individual or elected official as being responsible for the funds donated by the Government.
- (20) The Grantee agrees to allow the Government to publicize the Grantee's project through the Government's website and other media.
- (21) The Grantee agrees to reference the Lexington-Fayette Urban County Government's Water Quality Management Fee and the Stormwater Quality Projects Incentive Grant Program as a source of funding for the project on any permanent signage or educational brochures, presentations, websites, etc. produced using grant monies.
- (22) The Grantee is solely responsible for assuring that adequate and appropriate insurance or other necessary coverage is maintained during the term of this Agreement.
- (23) The Grantee shall provide equal opportunity in employment as required by applicable federal, state, and local laws, regulations and ordinances.
- (24) The Government assumes no responsibility whatsoever in the Grantee's project activities. Grantee shall defend, indemnify, and hold harmless the Government from and against any and all liability, claims, damages, losses, actions, costs, expenses, obligations, fines, and assessments of whatever kind, including defense costs and attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, in whole or in part, from or by Grantee's or its contractor(s), agents, or assigns, negligent acts or misconduct, or errors or omissions, or in any way connected with the activities carried out pursuant to this Agreement, the Grant award or the Stormwater Quality Projects Incentive Grant Program.
- (25) If, through any cause, the Grantee shall fail to fulfill in timely and proper manner its obligations under this Agreement, or if the Grantee shall violate any of the covenants, agree-

ments or stipulations of this Agreement, the Government shall provide the Grantee thirty (30) calendar days to address the deficiency or violation. If the Grantee does not, after the thirty (30) days, come into compliance with this Agreement, the Government shall thereupon have the right to terminate this Agreement by giving written notice to the Grantee of such termination and specifying the effective date thereof, at least five (5) calendar days before the effective date of such termination. In that event, all finished or unfinished documents, receipts and reports prepared by the Grantee shall, at the option of the Government, become its property and the Grantee shall immediately repay to the Government all monies received pursuant to this Agreement less any amount representing just and equitable compensation for the Government's share of any satisfactory work completed pursuant to the Agreement.

(26) The Grantee's sole remedy for a breach of this Agreement by the Government shall be limited to the amount of the Grant.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement at Lexington, Fayette County, Kentucky, this the day and year first above written.

LEXINGTON-FAYETTE URBAN COUNTY  
GOVERNMENT

BY: *Rinda Gorton*  
MAYOR

ATTEST:

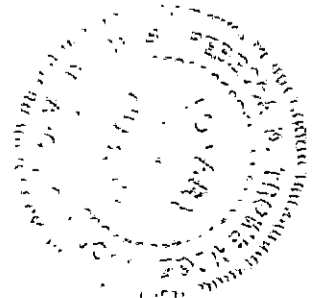
*[Signature]*  
CLERK, URBAN COUNTY COUNCIL

Grantee Organization: **FRIENDS OF WOLF RUN, INC.**  
639 CARDINAL LANE  
LEXINGTON, KY 40503

BY: *[Signature]*  
NAME: Kenneth B. Cooke  
TITLE: Treasurer

The foregoing Agreement was subscribed, sworn to and acknowledged before me by Kenneth Cooke, as the duly authorized representative for and on behalf of Friends of Wolf Run on this the 14 day of January, 2019.  
My commission expires: 5/8/2021.

*[Signature]*  
NOTARY PUBLIC



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

**GRANT PROGRAM:** FY2019 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 (DWQ) in the Department of Environmental Quality and Public Works

**PROJECT TEAM AND CONTACT INFORMATION**

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

**Organization President:** Karen Fawcett, President  
859-469-2777 (phone)  
kygreenfawcett@gmail.com (email)

**Primary Project Contact and Project Manager:** Ken Cooke, Treasurer, FOWR – Treasurer  
859-940-8234 (phone)  
ken.cooke@canewoods.com (email)  
Will serve as project manager; providing project administration, grant reporting, and volunteer management.

**Secondary Project Contact:** Individual Project Key Stewards (see Project Stewards list)

**FOWR Board of Trustees:** Will provide financial oversight and sponsorship.  
Karen Pettinger Fawcett, President  
Bruce Hutcheson, Vice-President  
Layton Register, Secretary

**Project Steering Committee:** Project operations and support.  
Dr. Julian Campbell, Plant Materials Selection  
Will Overbeck, Plant Ecologist  
Jean Watts, Water Quality Specialist  
Amanda Gumbert, Extension Water Quality Liaison  
Dr. Carmen Agouridis, UK Biosystems and Ag. Eng.

**LFUCG Contacts:** Demetria Mehlhorn, Division of Environmental Services: Review and approve work on LFUCG Greenways  
Chris Cooperrider, Parks & Recreation: Approves planting plans on park property, works with LFUCG contractors to protect plantings.  
Kevin Levesque, DWQ – Remedial Measures Plans (RMP) Program Manager: Coordinates plans, reviews, and approves plans for restoration work adjacent to planned RMP/Sanitary Sewer projects.  
LFUCG Streets and Roads: Possible coordination with removal of cuttings.

**Project Stewards and Cooperating Organizations:**

1. Deauville Drive Greenway: Jerome Higginbotham, Key Steward, JH Technology Trust, Dunbar High School
2. Eastway Wetland Seep: Eric Spangler, Hill-N-Dale NA with support from Southland Association

3. Killrush Drive Greenway: Nachie Leandro Braga, Key Steward, Permaculture Design Specialist.
4. Lafayette, Southbend, Loneoak Greenways: Sandy Shafer, Sherri McPherson, Kay Stewards, Friends of Parks, Picadome Neighborhood, Lafayette High School Y Club.
5. Preston's Cave Spring Restoration: Garry Libby Skybox Environmental, LFUCG Environmental Commission with Cardinal Valley Neighborhood Association.
6. Springs Branch Stream Restoration Maintenance, Southland Park: Ken Cooke, Key Steward assisted by Southland Park Neighborhood Association Leadership. Bluegrass Community and Technical College Environmental Science Technology Program
7. Pine Meadow Park and Right of Way: Vaughn's Branch and Perennial Spring Restoration Mead Overbeck, Key Steward, Pine Meadow Neighborhood

### **PROJECT PLAN ELEMENTS**

The goals of the Streamside Buffer Stewardship Program are to improve water quality by restoring riparian stream buffers along Wolf Run Creek and its tributaries by engaging community leaders and volunteers in a coordinated, quality assured effort. Objectives are to create and maintain stream buffer demonstration projects and engage neighborhood leadership in maintaining stream buffers on both public and private property. To recruit, train, supply, and support volunteer stewardship groups to assist LFUCG streamside property owners in managing vegetative riparian buffers along Wolf Run and its tributaries. To educate the public about the value of streamside buffers, to conduct performance monitoring showing water quality impacts of streamside buffer projects.

Project Strategy and work plan:

1. Volunteer Stream Buffer Stewardship recruitment, training, and support
  - Ongoing support for existing volunteer leadership through funding and technical assistance
  - Field days and demonstration workshops
  - Support for new projects tackling several new neighborhoods not participating in the past.
  - Engagement of youth and other community leadership in storm drain stenciling in the Pine Meadows Neighborhood
2. Lafayette, Southbend Lone Oaks, and Clays Mill Greenway Project "Riparian Arboretum" demonstration area.
3. Preston's Cave Spring Riparian Forest Restoration.

#### **A. Project Element: Volunteer Stream Buffer Stewardship Initiative**

Work includes identifying and recruiting volunteers from neighborhoods adjacent to particular parks, greenways or other public spaces. This is accomplished by engaging residents in a progressive level of involvement/work activities including:

1. **Conducting stream walks** along portions of the stream and inviting area residents via email, door to door flyers, postcards, and/or neighbor to neighbor personal invitations. During stream walks, discuss water quality, habitat and streamside buffer issues and management strategies with the residents. Discuss and seek approval for a remediation plan for the stream from those participating.
2. **Planning Trash Cleanup Days**, light litter pickups and trash removal.
3. **Attacking Invasive Plants via "Bushwhacking Parties"**. Participants use hand tools to remove bush honeysuckle, garlic mustard, multi-flora rose, and Japanese Knot Weed. Activities involve treating cut shrubs with herbicides in accordance with practices developed by the Invasive Plant Working Group.
4. **Follow up Native Plantings** using volunteers to install perennials, shrubs, and trees according to a planting plan.
5. **Bringing in the "Big Guns" once** the neighborhood fully understands the process, LFUCG, Friends of Wolf Run and others can then proceed with the full-scale invasive control and native plantings with newfound understanding and support from neighborhood leadership.
6. **Leadership Training and Support** through field days, on-site consultants with restoration experts.



7. **Education and Outreach** through the distribution of “Living Along Kentucky Streams” and a “Stream Buffer Brochure”, produced by the University of Kentucky Cooperative Extension Service, at work days, when promoting events and door to door distribution to streamside property owners.
8. **Effectiveness Monitoring:** Continuing water quality checks for field parameters (DO, pH, Temperature, and Conductivity) as well as nutrients via field spectrophotometers and pathogens via E. Coli analysis in cooperation with LFUCG Town Branch lab and BCTC.
9. **Identification and support for “Key Stewards”** to provide ongoing leadership for the parcel/Greenway to organize follow-up efforts to keep invasive species in check, water plants, and organize additional work days to take place beyond the scope of the project.
10. **Clearly marking Stream Buffer Improvement areas** with fiberglass posts and educational signs.

**B. Project Element: Individual Project Site Support**

This project incorporates support for seven project sites, technical support, training activities, a demonstration project, and overall Administration & Coordination, as listed below. See also the Supplemental Project Element Information section for additional information for each of the project sites including; *Figure 1: Project Location Map*, individual project site details and budgets.

1. Deauville Drive Greenway
2. Eastway Wetland Seep, Hill-N-Dale Neighborhood
3. Killrush Drive Greenway
4. Lafayette, Southbend Lone Oaks, and Clays Mill Greenway Project
5. Preston’s Cave Spring Park, 1937 Dunkirk Drive
6. Springs Branch Stream Restoration Maintenance
7. Pine Meadow Park and Right of Way
8. Technical Support and Training for Key Stewards and Volunteers
9. Residential Stormwater Infiltration Demonstration Projects
10. Overall Project Administration, Coordination, and Watershed Wide Activities.

**C. Project Element: Provide Overall Project Support through Coordination, Quality Assurance, Communications, and Signage**

Friends of Wolf Run Leadership will provide the overall project management through the distribution of publications, coordinating field trips to each site, providing signage and boundary marking, and promotions via email, social media, and website publications. See also the Supplemental Project Element Information – Project Detail 10 for description and budget.

**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 and the Division of Environmental Services prior to work beginning.
2. The Organization shall provide written authorizations for private property access (including LFUCG Parks) to the LFUCG Grant Manager prior to work on any area for which they are required.
3. No Project shall proceed with field work until written approval to proceed is obtained from the Grant Administrator or Director of Water Quality, because of the potential for conflict with potential future LFUCG Capital Projects.
4. All attachments to Request for Funds & Project Status Reports shall reference the associated line in Table 2 – Eligible Expenses.

**EQUIPMENT**

Any equipment purchased with the Grant shall remain the property of the Organization.

## **PERMANENT FACILITIES/INFRASTRUCTURE**

**Permanent Capital Infrastructure:** This grant does not include “Permanent Capital Infrastructure” as defined in the Grant Award Agreement. Attachment B is not required for this Agreement.

**Monitoring:** The Organization agrees to allow LFUCG staff access to the project site(s) 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 written 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**

1. Any work to be coordinated with personnel in the LFUCG Contacts section is the responsibility of the grantee and shall be done prior to any work being done. The LFUCG Contacts listed in this document are listed for informational purposes only and listing does not constitute approval or agreement at this time.
2. Applicant shall obtain written approval/agreement prior to work being done on properties not owned by the applicant.
3. All existing utilities shall be located, contacted, and coordinated with prior to any work being performed if within the project vicinity.
4. Tree plantings shall be coordinated with existing utilities prior to plantings, and if possible, trees shall not be planted within 10’ feet of an existing utility. Encroachment agreements shall be obtained when working within any private utility areas.
5. The project shall not proceed with field work until written approval to proceed is obtained from the Grant Administrator or Director or Water Quality, because of the potential for conflict with potential future LFUCG Projects.
6. Grant applicant shall verify the need and ensure all permits are received (i.e. FEMA, Army Corp, DOW, etc.) prior to any bank stabilization work.
7. Organization proposes a larger cost share beyond that required by the grant program. Budget shall reflect the 27.4% cost share offered in the application (Approximately \$23,601.40).

## **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 - PROJECT SCHEDULE - Streamside Buffer Stewardship Program**

Activity	Anticipated Date
Approval of Grant Award Agreement	Within 1 week of grant award notice
Convening of project steering committees	Within 1 week of grant award notice
Approval of work plan by property managers, (Parks, Greenways)	Within 30 days of grant notification
Conduct stream walks in new project areas	April 2019
Conduct stream clean up and trash removal	April 2019, October 2020
Conduct invasive plant removal work days	April 2019, October 2020
Conduct native plant installations	May 2019 – October 2020
Follow up work days in existing riparian areas	May – October 2020
Final Report to LFUCG	December 1, 2020

**PROJECT BUDGET – GRANT ELIGIBLE EXPENSES**

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 cost share. 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 cost share. The Supplemental Project Element Information section lists Individual Project Budgets generated from the grant application and listed for informational purposes only. Table 2 remains the official list of Eligible Expenses for this project.

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

No work on any item outside of the project scope described herein, or any item to be covered by the contingency budget shall be performed without prior written approval from the LFUCG Grant Manager or Grant Administrator. Failure to do so may result in non-reimbursement for any such items.

Any donated professional service hours not currently listed in the Eligible Expenses shall be valued, at a maximum, at the Median Hourly Wage for the expertise provided – from the U.S. Department of Labor, Bureau of Labor Statistics, State Occupational Employment and Wage Estimates for Kentucky (current website: [www.bls.gov/oes/current/oes\\_ky.htm](http://www.bls.gov/oes/current/oes_ky.htm)).

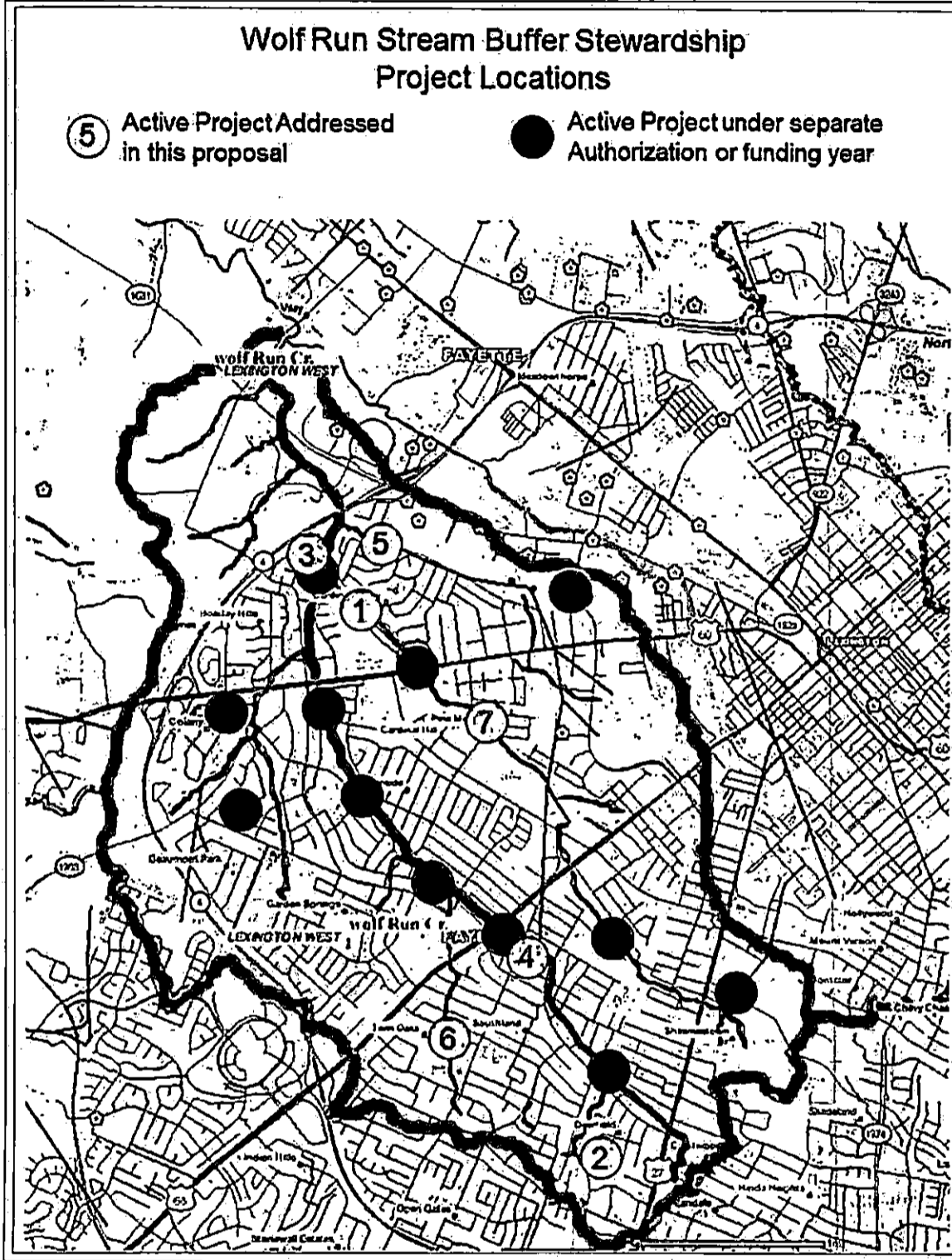
**TABLE 2 – Eligible Expenses**

	TYPE OF EXPENSE	PARTICIPANTS	ITEMS	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL
1	Plant Materials	Various	Various	\$ 9,000.00	LS 1	-	9,000.00	9,000.00
2	Plant Materials	Various	Various	\$ 6,000.00	LS 1	6,000.00	-	6,000.00
3	Materials and landscaping supplies	Various	Various	\$ 3,000.00	LS 1	-	3,000.00	3,000.00
4	Contracted Services	Various	Various	\$ 3,875.00	LS 1	3,875.00	-	3,875.00
5	Contracted Services	Various	Various	\$ 44,475.00	LS 1	-	44,475.00	44,475.00
6	Project Management Services	Various	Various	\$ 2,702.70	LS 1	2,702.70	-	2,702.70
7	Volunteer Time	Various	Various	\$ 4,317.50	LS 1	4,317.50	-	4,317.50
8	Publishing/Printing	Various	Various	\$ 3,741.20	LS 1	3,741.20	-	3,741.20
9	Publishing/Printing	Various	Various	\$ 2,766.20	LS 1	-	2,766.20	2,766.20
10	Effectiveness Monitoring	Various	Various	\$ 2,465.00	LS 1	2,465.00	-	2,465.00
11	Effectiveness Monitoring	Various	Various	\$ 2,050.00	LS 1	-	2,050.00	2,050.00
12	Field Days	Various	Various	\$ 500.00	LS 1	500.00	-	500.00
13	Signage	Various	Various	\$ 1,100.00	LS 1	-	1,100.00	1,100.00
<b>Total Project Budget:</b>						<b>\$ 23,601.40</b>	<b>\$ 62,391.20</b>	<b>85,992.60</b>
						Organization Share 27.4%	Grant Share 72.6%	
<b>*COST SHARE % =</b>				<b>27.45% OK</b>				

**SUPPLEMENTAL PROJECT ELEMENT INFORMATION**

*Note: Supplemental project element information is provided by the Applicant from the application.*

**FIGURE 1: PROJECT LOCATION MAP**



1. Deauville Drive Greenway
2. Eastway Wetland Seep Eastway and Sunseeker Drives
3. Killrush Drive Greenway
4. Lafayette, Southbend Lone Oaks and Clays Mill Greenway Project
5. Preston's Cave Spring Park
6. Springs Branch Stream Restoration
7. Pine Meadow Neighborhood Park and Right of Way Buffer Maintenance

## Project Site 1 Detail: Deauville Road Greenway Project

### Personnel

Jerome Higgenbotham, Key Steward, Jessie Higgenbotham Technology Trust, Dunbar High School

### Activity and outlook

Vaughn's Branch flows through the Deauville Drive Greenway, our Key Steward works with students at Dunbar High School through their Peace Garden on native plant propagation and maintenance along the Greenway. Activities include neighborhood and school-based work days along the creek controlling invasive plants, expanding the coverage area as time and hand tools permit.

### Project 01 Budget (From Application)

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE	
Volunteer Time	JHTT, Cardinal Valley Neighborhood	Follow-up control of honeysuckle/weeds; planting; mulching	\$ 7.25	Per Hour	50	\$ 362.50	\$ -	\$ 362.50
Project Management	Cardinal Valley Neighborhood Association	Jerome Higgenbotham Key Steward volunteer organization and planning	\$ 13.56	Per Hour	20	\$ 271.20	\$ -	\$ 271.20
Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	\$ 13.56	Per Hour	10	\$ 135.60	\$ -	\$ 135.60
Plant Materials	Area Nurseries, JHTT KY Division of Forestry	Seed, shrubs, tree whips and nursery stock	\$ 1,500.00	Per Project	1	\$ -	\$ 1,500.00	\$ 1,500.00
Materials and landscaping supplies	Area Vendors	Landscaping supplies, mulch, volunteer support materials	\$ 500.00	Per Project	1	\$ -	\$ 500.00	\$ 500.00
<b>TOTAL PROJECT BUDGET:</b>						\$ 769.30	\$ 2,000.00	\$ 2,769.30
*COST SHARE % = 27.78%						ORGANIZATION SHARE 27.8%	GRANT SHARE 72.2%	

## Project Site 2 Detail: Eastway Wetland Seep Eastway and Sunseeker Drives

### Personnel

Eric Spangler, Key Steward, Hill-N-Dale Neighborhood Association

### Activity and outlook

This headwater area is a tributary to the Dearfield Branch of Wolf Run with work focusing on a critical environmental area designated by LFUCG as part of the development plan for the new neighborhood. The wetland/Seep area has unique hydrologic features, staying wet most the year. This portion of the project will provide continued follow up on a major invasive control effort for the 1-acre parcel to be sure re-sprouts don't reclaim the area. New infill plantings will be installed by volunteers. An access path will be stabilized and maintained with regular Neighborhood work days for cleanups, invasive control and new plantings coordinated by the site's Key steward.

### Project 02 Budget (From Application)

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE	
<b>Project Element: Volunteer Days, Plantings and signage</b>								
Volunteer Time	Project personnel, FWR and neighborhood	Volunteer Hours for organizing and advertising event	\$ 7.25	per hour	20	\$ 145.00	\$ -	\$ 145.00
Project Management	Hill-N-Dale Neighborhood Association	Eric Spangler Key Steward volunteer organization and planning	\$ 13.56	Per Hour	15	\$ 203.40	\$ -	\$ 203.40
Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	\$ 13.56	Per Hour	5	\$ 67.80	\$ -	\$ 67.80
Plant Materials	Project personnel, FWR and neighborhood	Supplemental plantings and seeding	\$1,000.00	Per Project	1	\$ -	\$ 1,000.00	\$ 1,000.00
Materials and landscaping supplies	Area Vendors	Signage, Volunteer Work Day Supplies, Landscaping materials	\$ 600.00	per each	1	\$ -	\$ 500.00	\$ 500.00
<b>TOTALS</b>						\$ 416.20	\$ 1,500.00	\$ 1,916.20
*COST SHARE % = 21.72%						ORGANIZATION SHARE 21.7%	GRANT SHARE 78.3%	

**Project Site 3 Detail: Killrush Drive Greenway "Permaculture Repair Demonstration Project"**

**Personnel**

Nachie Leandro Braga, Key Steward, Permaculture Design Specialist

**Activity and outlook**

Our Key Steward, a graduate of the Bluegrass Community and Technical College Environmental Science Technology Program will be applying the principals of native permaculture landscapes including fruit, nut and berry perennial plants, shrubs and trees to creek repair. This unique approach provides the benefits of stream buffer restoration with native plants with the added benefit of fruit-bearing trees such as Shellbark Hickory, PawPaw, Plum, Pecan, and Hazlenut trees. The "Urban Orchard" concept is readily adaptable to riparian areas and provides a double benefit and neighborhood amenity. The activity will include the design, installation, volunteer work days and demonstration days hoping to expand adoption of production of beneficial produce for human and wildlife consumption.

**Project 03 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE	
Volunteer Time	Neighborhood Residents, Community Volunteers	Site preparation, plant installation	\$ 7.25	Per Hour	60	\$ 435.00	\$ -	\$ 435.00
Contract Labor	Nachie Leandro Braga Permaculture By Design	Design, installation supervision, maintenance 1 year.	\$ 2,000.00	Per Installation	1	\$ 500.00	\$ 1,500.00	\$ 2,000.00
Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	\$ 13.56	Per Hour	5	\$ 67.80	\$ -	\$ 67.80
Plant Materials	Area plant vendors, Propagation sources	Seed, shrubs, tree whips and nursery stock	\$ 1,000.00	Per Project	1	\$ -	\$ 1,000.00	\$ 1,000.00
Materials and landscaping supplies	Area Vendors	Landscaping supplies, mulch, volunteer support materials	\$ 500.00	Per Project	1	\$ -	\$ 500.00	\$ 500.00
<b>TOTAL PROJECT BUDGET:</b>						<b>\$ 1,002.80</b>	<b>\$ 3,000.00</b>	<b>\$ 4,002.80</b>
*COST SHARE % = 25.05%						ORGANIZATION SHARE 25.1%	GRANT SHARE 74.9%	

**Project Site 4 Detail: Lafayette, Southbend Lone Oaks and Clays Mill Greenway Project "Riparian Arboretum" Demonstration Area**

**Personnel**

Sandy Shafer, Sherri McPhearson, Key Stewards.

**Activity and Outlook**

Neighborhood Leadership is working in cooperation with students from Lafayette High School in creating a "Green Learning Space" engaging students in cooperation with community volunteers in planting and maintaining native trees, shrubs and perennial plants in addition to fruit and nut bearing trees and shrubs as part of a community garden concept. Students conduct regular maintenance visits to the property controlling invasive plants, planting additional plants and conducting educational outings with other student groups at the high school.

**Project 04 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE	
Volunteer Time	Lafayette Y Club, Picadome Neighborhood	Follow-up control of honeysuckle/weeds; planting; mulching	\$ 7.25	Per Hour	60	\$ 435.00	\$ -	\$ 435.00
Project Management	Picadome Neighborhood	Sandy Schafer Key Steward volunteer organization and planning	\$ 13.56	Per Hour	20	\$ 271.20	\$ -	\$ 271.20
Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	\$ 13.56	Per Hour	5	\$ 67.80	\$ -	\$ 67.80
Plant Materials	Area Nurseries, KY Division of Forestry	Seed, shrubs, tree whips and nursery stock	\$ 1,500.00	Per Project	1	\$ -	\$ 2,500.00	\$ 2,500.00
Materials and landscaping supplies	Area Vendors	Landscaping supplies, mulch, volunteer support materials	\$ 500.00	Per Project	1	\$ -	\$ 500.00	\$ 500.00
<b>TOTAL PROJECT BUDGET:</b>						<b>\$ 774.00</b>	<b>\$ 3,000.00</b>	<b>\$ 3,774.00</b>
*COST SHARE % = 20.51%						ORGANIZATION SHARE 20.5%	GRANT SHARE 79.5%	

## Project Site 5 Detail: Preston's Cave Spring Park Stream Buffer Restoration and Inventory

### Personnel

Garry Libby Skybax Environmental, LFUCG Environmental Commission with Cardinal Valley Neighborhood Association

### Project Objective:

- 1.1. The effort will be devoted to restoring the riparian buffer zone with native vegetation in aim of increasing the plant diversity to help stabilize the plant communities and resist competition from the invasive plant species that dominate the forest understory. This initial project will include 1000 linear feet from the end of the zone currently being restored, forming a Stream Buffer Zone along the north side of the creek floodplain where non-native Garlic Mustard (*Alliaria petiolata*) and alien Bush Honeysuckle (*Lonicera maackii*) will be treated.

### Project Elements

- 1.2. Bush Honeysuckle will be cut, the stumps treated with herbicide and the stems and branches cut down so that they are below waist level and dispersed in the understory.
- 1.3. This effort will include flagging and avoiding damage to existing tree and shrub species that are desirable and will help fill the gap left by honeysuckle treatments.
- 1.4. Native species to be emphasized in re-plantings here will include Redbud, Willows, Hydrangea, Dogwoods, Spicebush, Bladdernut, Black Haw and other selected shrubs ( e.g., *Cephalanthus occidentalis*, *Physocarpus opulifolius*, *Ptelea trifoliata*, *Rosa setigera*, *R. palustris*, *Sambucus canadensis*, *Viburnum dentatum*, *Zanthoxylum americanum*).
- 1.5. Plantings will also include a tree planting on the 2 acres of riparian area/wetland with an emphasis on Swamp White Oak (*Quercus bicolor*), Chinquapin Oak (*Quercus muhlenbergii*), Bur Oak (*Quercus macrocarpa*), and Shumard Oak (*Q. shumardi*).
- 1.6. At completion of the project, a complete report will be produced, including description of plant material, planting map and plan for future use.

### Project Schedule

- 1.7. Spring 2019: removal of alien plants along stream and in wetlands.
- 1.8. Spring and Fall 2019: planting of native plants (as outlined above).
- 1.9. Spring 2020: establishment of educational signs; development of trails.
- 1.10. Fall 2020: seminar and release plant inventory and ecological maps.



### Project 05 Budget (From Application)

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	Match	Payable	TOTAL EXPENSE
<b>Project Element: Stream Buffer Restoration Zone and Wetland Plantings [ca. 2 acres]</b>							
Contracted honeysuckle treatment	Skybax Ecological Services, LLC	Cutting and piling honeysuckle; herbicide application to stumps	\$ 5,000.00 per acre	2	\$ -	\$ 10,000.00	\$ 10,000.00
Plant material: special collection; local provenance	Skybax Ecological Services, LLC	Collection and selection of native woody and herbaceous species	\$ 50.00 per plant	100	\$ 5,000.00	\$ -	\$ 5,000.00
Contracted alien plant removal; mostly peripheral	Skybax Ecological Services, LLC	Careful identification and removal of unwanted alien plants	\$ 1,000.00 per acre	2	\$ -	\$ 2,000.00	\$ 2,000.00
Plant material: special collection; local	Skybax Ecological Services, LLC	Collection and growing of tree seedlings for wetland planting	\$ 5.00 per plant	200	\$ 1,000.00	\$ -	\$ 1,000.00
Installation of plantings; with care for 1 year	Skybax Ecological Services, LLC	Follow-up control of honeysuckle/weeds; planting; mulching	\$ 5.00 per plant	200	\$ -	\$ 1,000.00	\$ 1,000.00
<b>Project Element: Volunteer Days, Plant Species Inventory, Map of Project/Special Features</b>							
Volunteer Hours	Project personnel, FWR and neighborhood	Volunteer Hours for organizing and advertising event	\$ 7.50 per hour	20	\$ 150.00	\$ -	\$ 150.00
Supplies	Project personnel, FWR and neighborhood	Advertising for event: 200 single page flyers - black & white	\$ 0.10 per flyer	250	\$ -	\$ 25.00	\$ 25.00
Plant Inventory, Mapping and Reports	Skybax Ecological Services, LLC	Preparation of a Species List and Special Features Map	\$ 600.00 per each	1	\$ -	\$ 600.00	\$ 600.00
<b>TOTAL PROJECT BUDGET:</b>					\$ 6,150.00	\$ 13,625.00	\$ 19,775.00
*COST SHARE % = 31.10%					ORGANIZATION SHARE 31.1%	GRANT SHARE 68.9%	

**Project Site 6 Detail: Springs Branch Stream Restoration Maintenance**

**Project Personnel:** Ken Cooke, Key Steward, Southland Park Neighborhood Association, Bluegrass Community and Technical College Environmental Science Technology Program Faculty.

**Scope of work and timeline:**

The 2012 stream restoration project completed under a Class B Water Quality Incentive Grant Program continues to develop naturally but does require coordinated maintenance to replace lost plantings, control invasive re-sprouts and expand the stock of native trees and shrubs enhancing the area.

**Activities** will include twice annual spring and fall cleanups and volunteer work days with on-site monitoring in cooperation with LFUCG Parks Southbase (Located at the site) and Fayette County Public Schools (Notification only). Specific activities will include continuing control of Cattail infestation, Bush Honeysuckle sprout pulling and Johnson Grass Control. Educational stream walks will be planned in cooperation with the Neighborhood Association, and when requested, with Clay's Mill Elementary faculty and Staff.

**Project 06 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
Volunteer Time	Southland Park, Community Volunteers	Follow-up control of honeysuckle/weeds; planting; mulching	\$ 7.25	Per Hour 20	\$ 145.00	\$ -	\$ 145.00
Project Management	Southland Park Neighborhood	Ken Cooke Key Steward volunteer organization and planning	\$ 13.56	Per Hour 20	\$ 271.20	\$ -	\$ 271.20
Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	\$ 13.56	Per Hour 5	\$ 67.80	\$ -	\$ 67.80
Plant Materials	Area Nurseries, KY Division of Forestry	Seed, shrubs, tree whips and nursery stock	\$ 1,000.00	Per Project 1	\$ -	\$ 1,000.00	\$ 1,000.00
Materials and landscaping supplies	Area Vendors	Landscaping supplies, mulch, volunteer support materials	\$ 500.00	Per Project 1	\$ -	\$ 500.00	\$ 500.00
<b>TOTAL PROJECT BUDGET:</b>					\$ 484.00	\$ 1,500.00	\$ 1,984.00
*COST SHARE % = 24.40%					ORGANIZATION SHARE 24.4%	GRANT SHARE 75.6%	

**Project Element 7 Detail: Pine Meadow Neighborhood Park and Right of Way Buffer Maintenance**

**Project Personnel:** Mead Overbeck, Key Steward, Pine Meadow Neighborhood Association.

**Activity and Outlook:** Objectives for this project area are two fold, first is to maintain neighborhood engagement in invasive plant control, native plantings and support for LFUCG Division of Environmental Services work maintaining the public corridor through the heart of the neighborhood. New activity will involve restoration work on the upper triangle of the park adjacent to 1505-1513 Pine Meadow Court and Tazzwell Drive. The project will continue its private property owner demonstration plot support and include invasive plant control and native plant installation along a perennial spring that feeds a tributary of the creek through Pine Meadow Park.

**Project 07 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
Volunteer Time	Property owner, Pine Meadow, Community Volunteers	Stream Walks, Volunteer Work Days,	\$ 7.25	Per Hour 20	\$ 145.00	\$ -	\$ 145.00
Project Management	Mead Overbeck, Key Steward	Project organization and administration	\$ 13.56	Per Hour 20	\$ 271.20	\$ -	\$ 271.20
Professional Services	Plant Ecologists and Botanical Consultants	Technical support, site assessments, plant recommendations	\$25.00	Per Hour 10	\$ 250.00	\$ -	\$ 250.00
Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	\$ 13.56	Per Hour 5	\$ 67.80	\$ -	\$ 67.80
Plant Materials	Area Nurseries, KY Division of Forestry	Seed, shrubs, tree whips and nursery stock	\$ 1,000.00	Per Project 1	\$ -	\$ 2,000.00	\$ 2,000.00
Materials and landscaping supplies	Area Vendors	Landscaping supplies, mulch, volunteer support materials	\$ 500.00	Per Project 1	\$ -	\$ 500.00	\$ 500.00
<b>TOTAL PROJECT BUDGET:</b>					\$ 734.00	\$ 2,500.00	\$ 3,234.00
*COST SHARE % = 22.70%					ORGANIZATION SHARE 22.7%	GRANT SHARE 77.3%	



## Project Element 8 Detail: Technical Support and Training for Key Stewards and Volunteers

**Project Personnel:** Amanda Gumbert, PhD, Carmen Agouridis, PE, PhD University of Kentucky  
**Water Quality Problem Addressed**

### Project Activity and Outlook:

The University of Kentucky will provide the following services to achieve the goals of the project:

- Develop up to four Extension publications to enhance existing Core Competencies (previously developed in FY2017 Friends of Wolf Run, Inc. Storm water Quality Project) modules and serve as outreach materials for use by key stewards and other stream buffer practitioners.
- Maintain website for Backyard Streams Core Competencies, including updating content, graphics, and maintaining availability to new stream stewards.
- Provide one, ½-day stream buffer restoration best practices exchange, including discussion of Backyard Streams Core Competencies. Target audience includes volunteers, stream stewards, and other interested parties from the entire LFUCG service area in addition to those from the Wolf Run Watershed up to the funded participant limit. Estimated date: Winter/early Spring 2020.
- Provide one, day-long field practicum for stream buffer restoration. Practicum will include installation of site-specific riparian vegetation and discussion of watershed assessment and restoration techniques. Target audience includes stream stewards and interested landowners from the entire LFUCG service area in addition to those from the Wolf Run Watershed up to the funded participant limit. Estimated date: Spring 2020.
- Provide one, day-long workshop that will include an evaluation of site installation from the Spring 2018 (completed as part of FY2017 Friends of Wolf Run, Inc. Stormwater Quality Project) and Spring 2020 field practica and other restoration site visits. Target audience includes stream stewards, stream buffer professionals, and other interested parties from the entire LFUCG service area in addition to those from the Wolf Run Watershed up to the funded participant limit. Estimated date: Fall 2020.

### Details:

Friends of Wolf Run will provide project management, workshop/practicum facility set-up, registration, refreshments and additional printed materials as needed.

### Project 08 Budget (From Application)

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
Outreach/ Publication	Amanda Gumbert, PhD, Carmen Agouridis	Website maintenance	\$26.03/hour	80	\$ 1,041.20	\$ 1,041.20	\$ 2,082.40
Publication/ Printing	Amanda Gumbert, PhD, Carmen Agouridis	Publication development	\$750.00/each	4	\$ 1,500.00	\$ 1,500.00	\$ 3,000.00
Publication/ Printing	Amanda Gumbert, PhD, Carmen Agouridis	Publication printing	\$0.50/each	400	\$ 200.00		\$ 200.00
Workshops	Amanda Gumbert, PhD, Carmen Agouridis	Best Practices/Core Competencies discussion	\$750.00/each	1		\$ 750.00	\$ 750.00
Workshops	Amanda Gumbert, PhD, Carmen Agouridis	Field Practicum	\$150.00/per participant	20		\$ 3,000.00	\$ 3,000.00
Facilities/ refreshments	Friends of Wolf Run	Site reservations/catering	\$500.00/Per Event	3		\$ 1,500.00	\$ 1,500.00
Project Management	Friends of Wolf Run	Registrations, facilities arrangements	\$13.56/Per Hour	20	\$ 271.20		\$ 271.20
Workshops	Amanda Gumbert, PhD, Carmen Agouridis	Workshop/Site Evaluations	\$150.00/per participant	20		\$ 3,000.00	\$ 3,000.00
<b>TOTAL PROJECT BUDGET:</b>					<b>\$ 3,012.40</b>	<b>\$ 10,791.20</b>	<b>\$ 13,803.60</b>
*COST SHARE % = 21.82%					ORGANIZATION SHARE 21.8%	GRANT SHARE 78.2%	

## Project Element 09 Detail: Residential stormwater quality and infiltration practice Demonstration

**Project Personnel:** Amanda Gumbert, PhD, Carmen Agouridis, PE, PhD University of Kentucky Ken Cooke, Friends of Wolf Run



**Activity and Outlook:** This activity involves identifying, researching and installing a set of specific practices designed to reduce stormwater volume and treat "first flush" stormwater pollutants on residential properties in flood prone subwatersheds of Wolf Run. Recent flood mitigation efforts by LFUCG in the Southland, Pine Meadow and Gardenside areas has generated interest among homeowners on what steps they can take to manage and reduce stormwater runoff from their downspouts, driveways and other hard structures.

**Beyond rain gardens,** we've found a general lack of accessible technical guidance for property owners and their service providers on specific practices that can be installed on a typical 0.25 acre residential property. This program component would carry out the following tasks to accommodate that interest and provide specific steps a property owner can take to make contributions to pollutant and stormwater volume reductions.

1. Identification and research of specific practices for volume reduction and pollution control by the University of Kentucky College of Agriculture Food and Environment carried out by Dr. Carmen Agouridis and Dr. Amanda Gumbert. This component would evaluate and select key practices suitable for the soils and hydrology of the area.
2. Organize and facilitate focus groups of professional landscape installers and neighborhood leadership to assist with setting up a market for service providers willing to carry out installation of identified practices at competitive rates.
3. Development of technical guidance documents that outline practice design and installation components.
4. Hold a technical training workshop for landscape installers and neighborhood leadership on specific installations.
5. Friends of Wolf Run will organize up to 5 on-site demonstration installations of specific water quality controls on residential properties selected in cooperation with target neighborhood leadership.
6. Evaluation and effectiveness monitoring for these installations.

**Project Partners:**

- University of Kentucky CAFE. (Bio-systems, Extension)
- Landscape Installers
  - EcoGro
  - Leachman Landscape Design
  - Jack Hays Landscaping
  - Springhouse Gardens
- Neighborhood Association Leadership
  - Hill-N-Dale Neighborhood
  - Pine Meadow Neighborhood
  - Gardenside Neighborhood
  - Southland Park Neighborhood

**Project 9 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
Research and review of Residential Infiltration practices	Dr. Amanda Gumbert, Dr. Carmen Agouridis	Review literature, evaluate practice data, prioritize specific landscaping practices suitable for the area	\$500.00 each	5	\$ 1,250.00	\$ 1,250.00	\$ 2,500.00
Focus Group	Dr. Amanda Gumbert, Dr. Carmen Agouridis	Convene, facilitate input from landscape installers, neighborhood leadership on feasibility of specific practices	\$100.00 per participant	15	\$ -	\$ 1,500.00	\$ 1,500.00
Develop technical guidance for each identified practice	Dr. Amanda Gumbert, Dr. Carmen Agouridis	Extension Publication or Research Paper (Electronic form)	\$750.00 each	5	\$ 1,875.00	\$ 1,875.00	\$ 3,750.00
Training	Dr. Amanda Gumbert, Dr. Carmen Agouridis	Installation training workshop (Classroom)	\$150.00 per participant	20	\$ -	\$ 3,000.00	\$ 3,000.00
On-Site Demonstration Installation	Friends of Wolf Run Trustees	Identify willing property owner, seek installation bids, supervise installation	\$3,000.00 Each	5		\$ 15,000.00	\$ 15,000.00
Neighborhood and Property Owner Participation	Neighborhood Association Leadership/Property Owner Match	Focus Group Participation, Assistance identifying property owner, Coordinate field day visiting installation	\$500.00 Each	5	\$ 2,500.00		\$ 2,500.00
Workshops	Friends of Wolf Run Trustees	Facilities arrangements, refreshments	\$750.00 Each	3	\$ 750.00	\$ 1,500.00	\$ 2,250.00
Effectiveness Monitoring	Dr. Amanda Gumbert, Dr. Carmen Agouridis	Equipment and Laboratory Resources for Field evaluation of infiltration rates and capacity	\$500.00 Each	5	\$ 1,250.00	\$ 1,250.00	\$ 2,500.00
Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	13.25 per hour	30	\$ 397.50	\$ -	\$ 397.50
Printing	Friends of Wolf Run Trustees	Printing handouts for Core Competencies discussion	\$5.00 each	40	\$ -	\$ 200.00	\$ 200.00
<b>Total</b>					<b>TOTAL PROJECT BUDGET:</b> \$ 8,022.50	\$ 25,575.00	\$ 33,597.50
					ORGANIZATION SHARE: 23.9%	GRANT SHARE: 76.1%	
				*COST SHARE % = 23.88%			

**Project Element 10 Detail: Overall Project Administration, Coordination and Watershed Wide Activities**

**Project Personnel:** Ken Cooke, Project Administrator, Friends of Wolf Run  
**Activity and Outlook**

Friends of Wolf Run leadership will provide general project coordination including:

1. Production and supply of signage and no-mow zone markers for project areas
2. Distribution to key stewards and neighborhood leadership publications related to stream buffer science, installation and maintenance. (Living Along A Kentucky Stream)
3. Outreach and communication regarding specific project work days; tours and events through social media, web site, email distribution and printed flyers
4. On site field support for Key Stewards, organizing meetings and planning sessions with property owners, city officials and volunteer leadership.
5. Specific coordination of Herbicide Applicators Certification through the Kentucky Department of Agriculture Division of Pesticide Regulation. At least one certified herbicide applicator is assigned to each project area. The project covers the testing fee and certification fee for the Key Steward or his/her designated project representative.
6. Effectiveness monitoring in cooperation with the LFUCG Town Branch Water Quality Lab, operations of field testing for temperature, Dissolved Oxygen, pH, and Conductivity. Additional effectiveness monitoring conducted in cooperation with Bluegrass Community and Technical College Environmental Science Technology Program in surveying sites, kill ratios for invasive plants, viability of native plants and other field surveys.
7. Making financial arrangements, purchasing coordination, accounting, grant reporting and record keeping for the overall project.
8. Project long – range planning for future funding and alternative funding sources for grant cost share and new development.

**Project 10 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
Signage	Friends of Wolf Run Trustees	No Mow Zone Boundary Markers, Stickers and polls	\$11.00 Per Each	100	\$	\$ 1,100.00	\$ 1,100.00
Printing	Friends of Wolf Run Trustees	Publications related to Stream Buffer Restoration	\$ 1.00 Per Each	500	\$ 500.00		\$ 500.00
Internet Information Services	Friends of Wolf Run Trustees	Social Media and Web Site Operations	Variable Per Campaign	1	\$ 500.00		\$ 500.00
Field Day	Friends of Wolf Run Trustees	Field Trip for Project Participant and Key Stewards	\$250 Per Event	2	\$500.00		\$ 500.00
Effectiveness Monitoring	Watershed Watch Volunteers/Friends of Wolf Run	Monitor 3 stations for nutrients, pathogens and field parameters	\$135 Per Visit Per Site	9	\$ 1,215.00		\$ 1,215.00
Effectiveness Monitoring	Microbac Labs, Friends of Wolf Run	Supplies for field meters and laboratory analysis	Variable Per Unit	1		\$ 800.00	\$ 800.00
Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	\$ 13.56 Per Hour	40	\$ 542.40	\$ -	\$ 542.40
<b>Totals</b>					<b>TOTAL PROJECT BUDGET:</b>		
					\$ 3,257.40	\$ 1,900.00	\$ 5,157.40
					<b>ORGANIZATION SHARE 63.2%</b>	<b>GRANT SHARE 36.8%</b>	
					<b>*COST SHARE % = 63.16%</b>		