

GRANT AWARD AGREEMENT

Fiscal Year 2024 Class A Incentive Grant Program

THIS AGREEMENT, made and entered into on the 24th day of January, 2024, 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 \$53,020.00 (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.

- (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. Each *Request for Funds* shall include a minimum of 10% cost share. 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 10% 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 and Property Owner agree 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 and Property Owner agree that all stormwater control facilities, including equipment and infrastructure shall remain in service and maintained by the Grantee or its representatives and the Property Owner for at least the Service Life listed in the Inspection, Operation, and Maintenance Plan developed for each facility referenced in Paragraph (7) above. For capital infrastructure, the Grantee and Property Owner further accepts and agrees to enter into the "*Agreement to Maintain Stormwater Control Facilities Funded by an LFUCG Class A Stormwater Quality Projects Incentive Grant*" 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 **18** months from the date of this Agreement. The Grantee agrees to obtain written approval from the Government's Grant Manager and 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 and Property Owner 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 Property Owner's 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 or Property Owner shall fail to fulfill in timely and proper manner its obligations under this Agreement, or if the Grantee or Property Owner shall violate any of the covenants, agreements, or stipulations of this Agreement, the

Government shall provide the Grantee thirty (30) calendar days to address the deficiency or violation. If the Grantee or Property Owner 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; provided, however, that for any project involving the construction of capital infrastructure, other than feasibility only projects, the Government's share of any satisfactory work completed shall not include feasibility or design costs.

(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: *Linda Gorton*
LINDA GORTON, MAYOR

ATTEST:
MacKenzie Stark
CLERK, URBAN COUNTY COUNCIL

Deputy

Grantee Organization: FRIENDS OF WOLF RUN, INC.

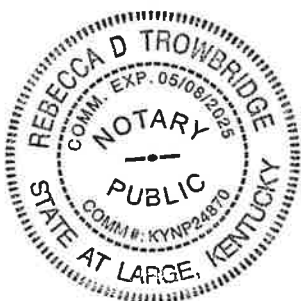
639 CARDINAL LANE
LEXINGTON, KENTUCKY 40503

BY: *R. Cooke*
NAME: Kenneth COOKE
TITLE: Treasurer

The foregoing Agreement was subscribed, sworn to and acknowledged before me by Kenneth B. COOKE, as the duly authorized representative for and on behalf of FRIENDS OF WOLF RUN, on this the 14th day of December, 2023.

My commission expires: 5-8-2025.

Rebecca Dowbridge
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

2024 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 & Public Works

PROJECT TEAM AND CONTACT INFORMATION

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

Organization President: Bruce Hutcheson, President
859-619-2233 (phone)
bhutches54@gmail.com (email)

Primary Project Contact & Project Manager: Ken Cooke, Treasurer
859-940-8234 (phone)
ken.cooke@canewoods.com (email)

Secondary Project Contact: Lisa Collins Ph.D
859-797-0011 (phone)
friend@wolfrunwater.org (email)

Individual Project Key Stewards (see Project Steward's list)

Project Steering Committee: Dr. Amanda Gumbert, University of Kentucky
Will Overbeck, Plant Ecologist
Jean Watts, Wetland Specialist
Jannine Baker, Native Plant Specialist

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 Stewards and Cooperating Organizations by Project Area:

1. Preston's Cave Spring Restoration: Jerry Weisenfluh, Key Steward assisted by Skybax Ecological Restoration and Geomancer Permaculture Contractors.
2. Deauville Drive Greenway: Jerome Higginbotham, Key Steward JH Technology Trust, Dunbar High School.
3. Pine Meadow Park and Right of Way: Julie Marfell, Key Steward, Pine Meadows Neighborhood Association Will Overbeck, contractor, Vaughn's Branch and Perennial Spring Restoration and buffer maintenance.
4. Gardenside Park Stream Buffer Maintenance: Kristine Goggin, Key Steward, Gardenside Neighborhood Association Partners. Infill planting, neighborhood engagement.

5. St. Raphael Tobits Trace Spring Trail: Laurie Daughtery, Key Steward assisted by Skybox Ecological Services, Contractor
6. Allendale Greenway Extension Buffer Restoration: Ken Cooke, Project Coordinator with cooperation from Skycrest Neighborhood and Skybox Ecological Services.
7. Floating Wetland Island Installation: Bruce Hutcheson, Solar Technician, Steve Rogers, McConnell Springs Park Coordinator, and Ken Cooke, Project Administration.
8. Plant Material Propagation/Distribution: Jannine Baker, Native Plant Specialist
9. UK Backyard Streams Technical Support/Videos: Dr. Amanda Gumbert, project coordinator, Lee Moser Extension Specialist, The Phase Two Drone Operators.

Project Strategy and Work Plan:

A. Volunteer Stream Buffer Stewardship Initiative

Ongoing community involvement through steward-planned work activities will identify and recruit volunteers from the neighborhoods adjacent to particular parks, greenways, or other public spaces. This will be accomplished by engaging residents in a progressive level of involvement through the following components:

1. **Conducting stream walks** along portions of the stream and inviting area residents via e-mail, door-to-door flyers, postcards, and/or neighbor-to-neighbor personal invitations. During stream walks, we discuss water quality, habitat, and streamside buffer issues and management strategies with the residents. We discuss and seek approval for a remediation plan for the stream from those participating.
2. **Planning Trash Cleanup Days**. This event incorporates typically light litter pickups and trash removal.
3. **Attacking Invasive Plants via bushwhacking parties**. Use hand tools to remove bush honeysuckle, garlic mustard, multi-flora rose, and Japanese Knot Weed. These activities involve treating cut shrubs with herbicide in accordance with practices developed by the Invasive Plant Working Group. These activities are to provide neighborhood volunteers with firsthand experience in dealing with invasive plants.
4. **Follow-up Native Plantings**. Using volunteers to install perennials, shrubs, and trees according to a planting plan to acquaint neighborhood residents with appropriate plant choices.
5. **Bringing in the "Big Kahuna"**. Once the neighborhood fully understands the process, LFUCG, Friends of Wolf Run, and others can then proceed with full-scale invasive control and native plantings with newfound understanding and support from neighborhood leadership.
6. **Volunteer Leadership Training and Support** through on-site technical support and online training.
7. **Education and Outreach** will be done through the distribution of "Living Along Kentucky Streams" and a "Stream Buffer Brochure" produced by the University of Kentucky Cooperative Extension Service at workdays when promoting events, and door-to-door distribution to streamside property owners. Installing educational signage on site.
8. **Effectiveness Monitoring**. Continuing water quality checks for field parameters, (Dissolved Oxygen, pH, Temperature, and Conductivity), soil condition, as well as nutrients, via field spectrophotometers, and pathogens via *E. coli* analysis in cooperation with LFUCG Town Branch Lab and Bluegrass Community and Technical College.
9. **Identification and Support for "Key Stewards"** to provide ongoing leadership for the parcel/greenway to organize follow-up efforts to keep invasive in check, water plants, and organize additional workdays to take place beyond the scope of the project.
10. **Clearly marking stream buffer improvement areas** will be done with fiberglass posts and educational signs.

B. Individual Project Site Support

This project incorporates support for seven (7) project sites, technical support, training activities, a demonstration project, and overall administration and coordination (element 10), as listed below.

1. Preston's Cave Spring Restoration
2. Deauville Drive Greenway
3. Pine Meadow Park and Right of Way

4. Gardenside Park Stream Buffer Maintenance
5. St. Raphael Tobits Trace Spring Trail
6. Allendale Greenway Extension Buffer Restoration
7. Floating Wetland Island Installation
8. Plant Material Propagation/Distribution
9. UK Backyard Streams Technical Support/Videos
10. Administration, finance, grant management, field support

NOTE: See Figure 1 – Project Location Map. Also, see pages 6-19 for individual project site details, and budgets.

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

Friends of Wolf Run will accomplish public involvement through the support of a volunteer network to include sponsoring neighborhood associations, school groups, property owners, researchers, and contractors engaging local residents.

Friends of Wolf Run 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.

1) DESIGN:

No grant-funded activities shall occur until the LFUCG Grant Manager gives Notice to Proceed, in writing, for the start of the project.

- Any work proposed within or on public right-of-way, easement, or LFUCG-owned property will require one or more permits or approvals. This includes installation permits for connection into any existing curb inlet or stormwater manhole located within public right-of-way. Please contact the appropriate staff:

Parks and Recreation, Chris Cooperrider – ccooperrider@lexingtonky.gov
 Environmental Services (greenways), Demetria Mehlhorn – dkimball@lexingtonky.gov
 Environmental Services (street trees), Heather Wilson – hwilson@lexingtonky.gov
 Engineering (right-of-way), John Cassel – jcassel@lexingtonky.gov
 Engineering (new development), Hillard Newman – hnewman@lexingtonky.gov
 Sanitary Sewers, Chris Dent – cdent@lexingtonky.gov
 Stormwater, Mark Sanders – msanders@lexingtonky.gov

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. All attachments to Requests 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 for purposes of the Grant Award Agreement.

Monitoring by LFUCG: The Organization agrees to allow LFUCG staff future access to any property on which work is performed to monitor the installed features for compliance with this Agreement following the grant period. After the grant period has ended, the Organization agrees to allow LFUCG access for monitoring per the terms of the Maintenance Agreement. Water quality sampling via grab samples or other methods may be employed by LFUCG staff as part of its Kentucky Pollutant Discharge Elimination System (KPDES) MS4 Phase 1 Permit.

SITE / CONSTRUCTION ACCESS

If work is to be performed on private property (including LFUCG-owned), 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. The written authorization(s) shall be provided to the LFUCG Grant Manager prior to work commencing.

ADDITIONAL GRANT STIPULATIONS

1. Tree plantings shall be coordinated with existing utilities prior to plantings, and if possible, trees shall not be planted within 10' of an existing utility. Encroachment agreements shall be obtained when working within any public or private utility areas.
2. Applicant shall obtain written approval/agreement prior to work being done on properties not owned by the Applicant.
3. Applicant shall verify the need and ensure all permits are received (i.e., FEMA, Army Corps, KDOW, etc.) prior to any streambank stabilization work.
4. The project shall not 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 future LFUCG projects.
5. Activities proposed for project site #6 (i.e., Allendale Stream Buffer Extension) shall be restricted to the Furlong Drive side of the creek for invasive and native planting activities (#1 & #2). Activities #3 & #4 from project site #6 to be removed due to pending flood mitigation and water quality project. Applicant to coordinate with the Division of Environmental Services and Greg Lubeck, Deputy Director of Water Quality.
6. Applicant shall obtain encroachment agreements for each public site from the Division of Environmental Services.
7. Organization proposes a larger cost share beyond that required by the grant program. Budget shall reflect the 26.9% cost share offered in the application (approximately \$19,228.00).

GRANT PERIOD & PROJECT SCHEDULE

The grant period starts on the date of execution 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 Grant Manager and Program Administrator. 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 – PRELIMINARY PROJECT SCHEDULE

Activity	Schedule
Approval of Grant Award Agreement and Notice to Proceed (NTP)	Anticipated February 2024
Removal of alien plants along streams and in wetlands	Spring 2024
Planting of native plants	Spring and Fall 2024
Establishment of educational signs; development of trails	Spring 2025:
Seminar and release plant inventory and ecological maps	Fall 2025:
Provide Project Final Report to LFUCG	Within 2 months of completion of the project

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 the 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 are included 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.

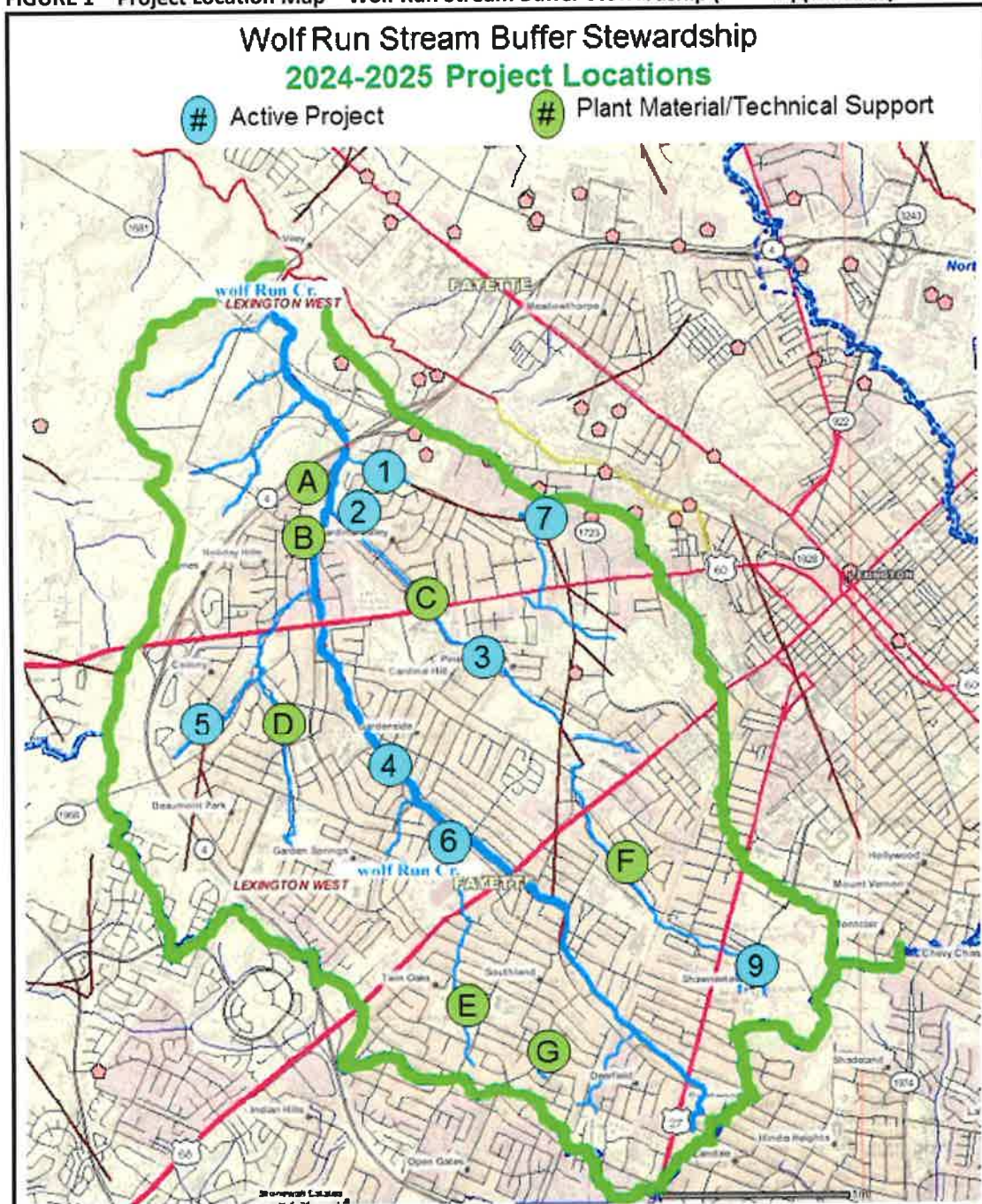
No work on any item outside of the project scope described herein, or any item to be covered by the contingency budget shall be performed without prior written approval from the LFUCG Grant Manager or Grant Administrator. Failure to do so may result in non-reimbursement for any such items.

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: http://www.bls.gov/oes/current/oes_ky.htm).

TABLE 2 – Eligible Expenses / Combined Budget (From Application)

	Type of Expense	Participants	Item	Unit Price	Unit	Quantity	Funded by Organization	Funded by Grant	Total Expense
1	Contracted Services	Project Contractors	services, support and labor	\$ 34,475.00	LS	1	\$ 3,300.00	\$ 31,175.00	\$ 34,475.00
2	Donated Professional Services	Project Consultants	Project consulting, planning, supervision and support	\$2,275.00	LS	1	\$ 2,275.00	\$ -	\$ 2,275.00
3	Field Days	Educational Cooperators	Leading field trips/tours and workshops	\$ 3,500.00	LS	1	\$ 250.00	\$ 3,250.00	\$ 3,500.00
4	Insurance Services	State Farm Insurance	Liability Coverage for Stream Buffers on DES Properties	\$ 400.00	Per Yr	1.5	\$ 600.00	\$ -	\$ 600.00
5	Internet Services	Web Development Specialist	Social Media and Web Site Operations	\$ 645.00	Per Campaign	1	\$ 500.00	\$ 145.00	\$ 645.00
6	Materials and Supplies	Area Vendors	Landscaping supplies/volunteer tools and equipment	\$3,300	Per Project	1	\$ -	\$ 3,300.00	\$ 3,300.00
7	Plant Materials	Area Vendors	Trees, seed, shrubs and perennial plants	\$ 16,950.00	Per Project	1	\$ 7,150.00	\$ 9,800.00	\$ 16,950.00
8	Printing	Print Services	Stream Guides, Brochures, Guidance Documents handouts	\$ 1,010.00	Per Project	1	\$ 460.00	\$ 550.00	\$ 1,010.00
9	Project Management	Key Stewards and Trustees	Planning, Coordination of contractors, partners and volunteers	\$ 18.00	Per Hour	185	\$ 3,330.00	\$ -	\$ 3,330.00
10	Signage	Area Vendors	Interpretive and boundary signs	\$ 850.00	Per Project	52	\$ -	\$ 850.00	\$ 850.00
11	Training Services	University of KY Extension Specialists	Stream Stewards Best Practices Facilitated Workshop	\$ 750.00	Each	1	\$ -	\$ 750.00	\$ 750.00
12	Volunteer Time	Project Community Volunteers	Volunteer work day planting and educational events	\$ 7.25	Per Hour	188	\$ 1,363.00	\$ -	\$ 1,363.00
13	TOTAL PROJECT BUDGET:						\$ 19,228.00	\$ 49,820.00	\$ 69,048.00
14							ORGANIZATION SHARE 27.8%	GRANT SHARE 72.2%	
	*COST SHARE % = 27.85% OK								

FIGURE 1 – Project Location Map – Wolf Run Stream Buffer Stewardship (From Application)



Note: Supplemental project element information is provided by the Organization from the application (see pages 6-19).

Project Sites

1. Preston’s Cave Spring Restoration
2. Deauville Drive Greenway
3. Pine Meadow Park and Right of Way
4. Gardenside Park Stream Buffer Maintenance
5. St. Raphael Tobits Trace Spring Trail
6. Allendale Greenway Extension Buffer Restoration
7. Floating Wetland Island Installation
8. Plant Material Propagation/Distribution
9. UK Backyard Streams Technical Support/Videos

FIGURE 2 – Project Site 1 Detail: Preston's Cave Spring Woodland Stream Buffer Repair (From Application)



Project Personnel

Jerry Wisenfluh, Key Steward, and Skybox Ecological Support Key Contractor

Activity and Outlook

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 approach is designed to transform the riparian zone in such a way that protection of the stream from aqueous runoff will be enhance, thereby improving water quality. This FY24-25 project will include 1000 linear feet from the end of the zone currently being restored, forming a Stream Buffer Zone along the creek floodplain where non-native Garlic Mustard (*Alliaria petiolata*) and alien Bush Honeysuckle (*Lonicera maackii*) will be treated.

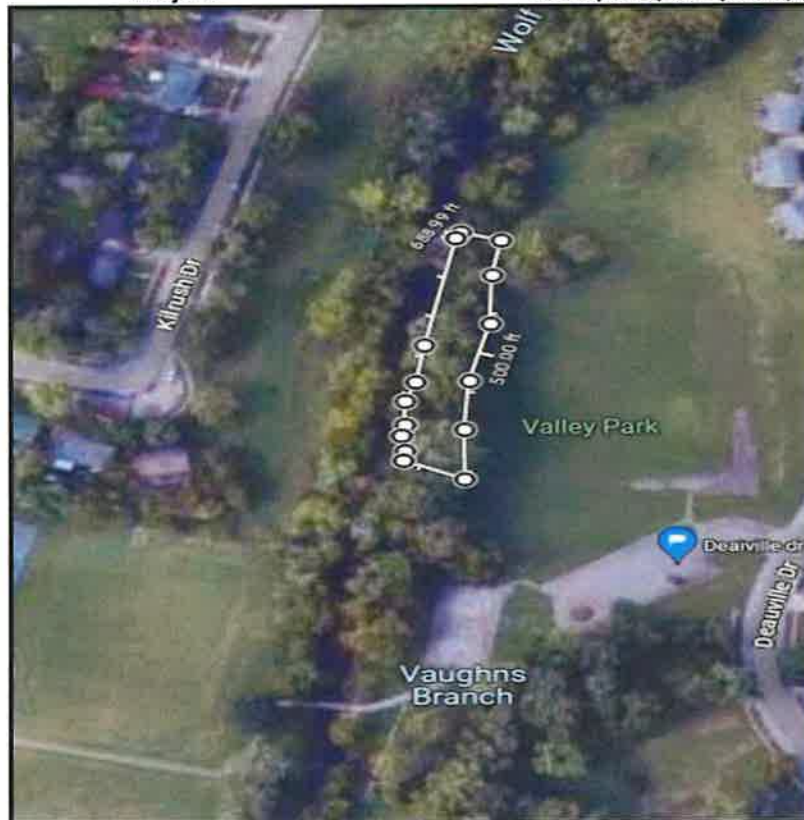
Project components

- A. 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. Other alien and undesirable species will be identified and removed.
- B. 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.
- C. Native species to be emphasized in re-plantings here will include shrubs such as Willows, Hydrangea, Dogwoods, Spicebush, Bladdernut, Black Haw, and others (e.g., *Amorpha fruticosa*, *Cephalanthus occidentalis*, *Physocarpus opulifolius*, *Ptelea trifoliata*, *Rosa setigera*, *R. palustris*, *Sambucus canadensis*, *Viburnum dentatum*, *Zanthoxylum americanum*).
- D. Plantings will also include seeding selected areas with a mixture of Wild rye (*Elymus virginianus* and *E. villosus*) and other native ground cover that competes well with Winter creeper (*Euonymus fortunei*). Also, tree plantings may include species such as Swamp White Oak (*Quercus bicolor*), Bur Oak (*Quercus macrocarpa*), Shumard Oak (*Q. shumardii*), and Sycamore (*Platanus occidentalis*).
- E. At the completion of the project, a complete report will be produced, including a description of plant material, a planting map and plans for future use.
- F. Stewardship Volunteers will continue follow-up planting and invasive control in upland areas of the park and in areas previously cleared by contractors.
- G. Community Volunteer Days will be organized, inviting neighbors of the park to participate and learn about activities in the park.
- H. Project Key Steward, Jerry Wisenfluh will continue to coordinate with Parks Staff and Contractors on refining and expanding the natural resources management efforts in the park.

TABLE 3 – Project Site 1 (From Application)

	TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	Unit	QUANTITY	Funded by organization	Funded by Grant	TOTAL EXPENSE	
1	Contracted Services	Skybax Ecological Services, LLC	Cutting and piling honeysuckle; herbicide application to stumps	\$ 5,000.00	per acre	2	\$ -	\$10,000.00	\$10,000.00	
2	Plant materials	Skybax Ecological Services, LLC	Collection and installation of native woody and herbaceous species	\$ 50.00	per plant	100	\$ 5,000.00	\$ -	\$ 5,000.00	
3	Contracted Services	Skybax Ecological Services, LLC	Careful identification and removal of unwanted alien plants	\$ 1,000.00	per acre	2	\$ -	\$ 2,000.00	\$ 2,000.00	
4	Plant Materials	Skybax Ecological Services, LLC	Tree whip collection, delivery, planting with follow up control	\$ 10.00	per plant	200	\$ 1,000.00	\$ 1,000.00	\$ 2,000.00	
5	Volunteer Hours	Project personnel, FWR and neighborhood	Volunteer Hours for organizing and advertising event	\$ 7.25	per hour	40	\$ 290.00	\$ -	\$ 290.00	
6	Project Management	Key Steward	Coordinating contractors and volunteers	\$ 18.00	Per Hour	15	\$ 270.00		\$ 270.00	
7	Donated Professional Services	Native Plant Specialist	Plant material acquisition, installation and supervision	\$40.00	Per Hour	10	\$ 400.00		\$ 400.00	
8	Printing	FWR	Event flyers, planning documents, maps	Variable	Per Project	1	\$ -	\$ 250.00	\$ 250.00	
9	Contracted Services	Skybax Ecological Services, LLC	Preparation of a Species List and Special Features Map	\$ 600.00	per each	1		\$ 600.00	\$ 600.00	
10	Donated Professional Services	Licensed Herbicide Applicators	Removal and treatment of existing invasive plants in buffer and upland areas	\$25.00	per hour	20	\$ 500.00		\$ 500.00	
11	Supplies	FOWR Volunteer Program	Tools, herbicides, and related supplies	\$500	Per Project	1		\$ 500.00	\$ 500.00	
12	TOTAL PROJECT BUDGET:							\$ 7,460.00	\$14,350.00	\$21,810.00
13								ORGANIZATION SHARE	GRANT SHARE	
14	*COST SHARE % = 34.20% OK							34.2%	65.8%	
15										
16										

FIGURE 3 – Project Element 2: Deauville Drive Greenspace (Valley Park) (From Application)



Project Personnel

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

Activity and Outlook

Friends of Wolf Run, in partnership with the Jesse Higginbotham Technology Trust, is seeking funding for a LFUCG Water Quality Incentive Grant for proposed work on a portion of Vaughn’s Branch along Deauville Drive. This is a continuation of work we have done for the past 7 years.

Scope of Work

Volunteers from the Jesse Higginbotham Technology Trust, under the leadership of the Key Steward Jerome Higginbotham, will remove invasive species (such as Bush Honeysuckle, Winter creeper, etc.) and apply Glyphosate as needed to prevent its return. We will preserve any native species we find and, in addition, we will plant additional native species to create a Riparian Buffer Zone following the best practices outlined by the University of Kentucky.

In most years, we are able to clear a 30-yard deep swath about 60 yards long. We will preserve or plant larger trees closest to the stream bank (about 10 yards), then a barrier of shrubs (about 10 yards) and finally a border of flowering plants and grasses (about 10 yards).

The overall goal of this project is to create a Riparian Stream Buffer Zone which will have a variety of effects. It will improve water quality because, as water flows through the zone, it will be naturally filtered by the native plant root systems. In addition, these root systems will help prevent erosion to the stream bank. Finally, these plants will naturally attract pollinators and will serve as a nesting and food source for a variety of animal species.

Water Quality Impact

29,225 square feet of buffer filtering sediment, nutrients, and pathogens and providing temperature moderation.

Stormwater Volume Impact

14,612 cubic feet of storage from the buffer zone (per Stormwater Manual)

TABLE 4 – Project Site 2 (From Application)

Type of Expense	Participants	Item	Unit Price	Unit	Quantity	Funded by Organization	Funded by Grant	Total Expense	
1	Volunteer time	JHTT, Cardinal Valley Neighborhood	Invasive plant removal and control, installing and mulching native plants	\$ 7.25	Per Hour	40	\$ 290.00	\$ -	\$ 290.00
2	Project Management	Jesse Higginbotham Technology Trust, Inc.	Jerome Higginbotham, Key Steward, volunteer planning and organizing	\$ 18.00	Per Hour	20	\$ 360.00	\$ -	\$ 360.00
3	Project Management	Friends of Wolf Run	Grant Accounting, Purchasing, Financial Administration	\$ 18.00	Per Hour	5	\$ 90.00	\$ -	\$ 90.00
4	Plant Materials	Area Nurseries, JHTT KY Forestry Division	Plants, Shrubs, tree whips, seeds	\$ 1,500.00	Per Project	1	\$ -	\$ 1,500.00	\$ 1,500.00
5	Materials and landscaping supplies	Area vendors	Landscape supplies, mulch, volunteer support material	\$ 500.00	Per Project	1	\$ -	\$ 500.00	\$ 500.00
6	TOTAL PROJECT BUDGET:						\$ 740.00	\$ 2,000.00	\$ 2,740.00
7							ORGANIZATION SHARE	GRANT SHARE	
8	*COST SHARE % = 27.01%						27.0%	73.0%	

FIGURE 4 – Project Element 3: Pine Meadow Neighborhood Park and Right of Way Buffer Maintenance (From Application)



Project Personnel

Julie Marfell, Key Steward, Pine Meadow Neighborhood Association

Activity and Outlook

Pine Meadows Park has been undergoing stream restoration for about 10 years and benefits of the funding and volunteer stewardship include increased tree canopy, increased bluegrass regional native herbaceous plants, and community involvement for better educational opportunities and advocacy. A small unnamed spring fed tributary of Vaughn’s Branch flows thru the park’s eastern boundary and has been the part of the restoration work. Further water quality improvement projects can benefit residents of Fayette County, providing high-quality environmental education and interpretation, decreasing invasive species presence, and increasing stewardship for the native plants that are beginning to colonize the site.

Purpose and Need

Pine Meadow Park has been under stewardship since 2012. Honeysuckle has been removed from about 1 acre of stream buffer and at least 0.25 acres have been completely rehabilitated with native forest canopy and understory species. Continued maintenance is needed to further the removal of garlic mustard, winter creeper, Japanese hedge parsley, white mulberry, Amur honeysuckle, Callery pear, and many other weeds that are beginning to colonize the bare soil where restoration has begun. Additional native plant propagules should be introduced including river oats, silky wild rye, Virginia wild rye, riverbank wild rye, foxglove beardtongue, golden alexanders, wingstem, zigzag goldenrod, Short’s aster, white snakeroot, as well as trees and shrubs such as ninebark, elderberry, aromatic sumac, rough dogwood, silky dogwood, spice bush, Kentucky coffee tree, bur oak, Shumard red oak, pawpaw, kingnut hickory, sycamore, Ohio buckeye, chinkapin oak, American linden, and sugar maple. To accomplish these goals an annual management contract is proposed to extend the stewardship of the Pine Meadow Park stream buffer. Invasive plant species will be monitored and removed, appropriate native species will be planted, and volunteers will be invited to involve themselves with monitoring, planting, and trash pick-up during several volunteer events in 2024.

Project Outline

The site will be devoted to restoring patches and strips of 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 project includes 750 linear feet of Vaughn’s Branch from the spring branch confluence downstream forming a Stream Buffer Zone along the south side of the creek floodplain, where the primarily dominant non-native Garlic Mustard (*Alliaria petiolata*) and wintercreeper (*Euonymus fortunei*) will be removed.

At completion of the project, a complete report will be produced, including a description of the plant material introduced and an assessment of the current condition and future management needs.

Pine Meadow Buffer Maintenance Schedule of Work

- Spring 2024 (April-May): planting of native plants, removal of invasive species; volunteer event
- Summer 2024 (June-August): Maintenance and monitoring follow-up
- Fall 2024 (August-October): Fall clean-up and seeding; volunteer event

Potential Developments and Applications in the Future

Further plantings can be designed at the site in future years, as funds become available. More open areas on the bottomland and near trails could be converted to meadows of native grasses and wildflowers, with maintenance by mowing or other means.

Water Quality Impact

300 square feet of new buffer, 28,600 Square Feet of buffer maintenance filtering Sediment, nutrients, pathogens and providing temperature Moderation.

Stormwater Volume Impact

14,000 cubic feet of storage from the buffer zone (per Stormwater Manual)

TABLE 5 – Project Site 3 (From Application)

	Type of Expense	Participants	Item	Unit Price	Unit	Quantity	Funded by Organization	Funded by Grant	Total Expense
1	Contracted Services	Will Overbeck	Site monitoring, invasive species removal, site stewardship including planting	\$ 750.00	per visit	3	\$ -	\$ 2,250.00	\$ 2,250.00
2	Volunteer Time	FWR and neighborhood leadership	Volunteer work day events	\$ 7.25	per hour	20	\$ 145.00	\$ -	\$ 145.00
3	Project Coordination	Volunteer Key Steward	Project management, Contractor Supervision, Planning/Communications	\$ 18.00	per hour	10	\$ 180.00	\$ -	\$ 180.00
4	Plant Materials (Donated)	Project personnel, FWR and	In-kind contribution of 20 trees/shrubs/herbs	\$ 20.00	per plant	20	\$ 400.00	\$ -	\$ 400.00
5	Plant Materials (Purchased)	Area Vendors	Tree whips, seed, shrubs and perennial plants	\$ 300.00	Per Project	1		\$ 300.00	\$ 300.00
6	Plant Inventory, Mapping and Reports	Will Overbeck	Preparation of a Species List and Assessment Report	\$ 400.00	per each	1	\$ 400.00	\$ -	\$ 400.00
7	TOTAL PROJECT BUDGET:						\$ 1,125.00	\$ 2,550.00	\$ 3,675.00
8							ORGANIZATION	GRANT	
9	*COST SHARE % = 30.61% OK						SHARE	SHARE	
10							30.6%	69.4%	

FIGURE 5 – Project Site 4: Gardenside Park (From Application)



Project Personnel

Kristine Goggin, Key Steward, Gardenside Neighborhood Association, Partners

Project Team

Key Steward Kristine Goggin, Planning Consultant, Susan Spalding, Water Quality Consultant, Susan Cohn, Native Plant Consultant, Charles Chandler, Neighborhood Association Leadership, Eric Huffer.

Scope and Outlook

Gardenside Neighborhood Leadership is requesting funding for continued maintenance of a robust stream buffer restoration effort though the park and on private property where the stream runs through the neighborhood. Sanitary Sewer work and major park renovations have been completed. We will work closely with city contractors to make sure our activities to not interfere with ongoing work or maintenance contracts.

Gardenside Buffer activities planned include

- Community involvement in Gardenside Park, Stream Bank Restoration and Maintenance
 - Funding of educational events aimed at families in Gardenside and beyond.
 - Tying park events to stream bank awareness
 - Potential Educational Partners
 - Nature Hop Lexington
 - Tree Week-Urban Forest Initiative
 - Trees Lexington
 - Bluegrass Greensource
 - Wild Ones
- Increase volunteer participation in the park by promoting our mission of a healthy stream bank and waterway.
 - Set up volunteer recruitment tables staffed by GNA members at park events.
 - Streamline volunteer mailing lists and notifications
- **Increased and ongoing funding for contract work** to control difficult invasive such as poison ivy and for the planting of larger balled trees. Contract partners that have worked well with Gardenside Park
 - Gary Libby for invasive eradication
 - Russ Turpin/EcoGro for contract design and planting.

- **Strengthen and enhance our (Gardenside Neighborhood Association) partnership relations**
 - Water Quality Board
 - Friends of Wolf Run
 - Parks and Recreation-Lexington Fayette County Urban County Government
 - 11th District Council Member Jennifer Reynolds
- **Water Quality Impact**
800 square feet of new stream buffer, 15,400 square feet of stream buffer maintained filtering Sediment, nutrients, and pathogens and providing temperature Moderation.
- **Stormwater Volume Impact**
8,200 cubic feet of storage from the buffer zone (per Stormwater Manual)

TABLE 6 – Project Site 4 (From Application)

	Type of Expense	Participants	Item	Unit Price	Unit	Quantity	Funded by Organization	Funded by Grant	Total Expense	
1	Volunteer Time	Area neighbors	Litter pickup, invasive management, planting, seeds, educational field says	\$ 7.25	Per Hour	20	\$ 145.00	\$ -	\$ 145.00	
2	Contracted Services	Bid/Skybox/EcoGro	Poison Ivy Control, Large Tree Installation	\$ 400.00	Per Visit	3		\$ 1,200.00	\$ 1,200.00	
3	Donated Professional Services	Certified Herbicide Applicator	Invasive Control/Knoxious Weed Control	\$ 25.00	Per Hour	5	\$ 125.00		\$ 125.00	
4	Donated Professional Services	Water Quality/Native Plant Experts	Plant selection and acquisition, planting supervision, effectiveness monitoring	\$ 25.00	Per Hour	5	\$ 125.00		\$ 125.00	
5	Project Management	Key Steward	Project Coordination, Neighborhood Engagement, Communications and Planning	\$ 18.00	Per Hour	10	\$ 180.00	\$ -	\$ 180.00	
6	Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	\$ 18.00	Per Hour	5	\$ 90.00	\$ -	\$ 90.00	
7	Plant Materials	Area Nurseries	Tree Whips, Seed and Perennial Flowering Plants	\$1,000.00	Per Project	1	\$ 250.00	\$ 1,500.00	\$ 1,750.00	
8	Materials and landscaping supplies	Area Vendors	Landscaping supplies, mulch, volunteer support materials	\$ 300.00	Per Project	1	\$ -	\$ 300.00	\$ 300.00	
9	TOTAL PROJECT BUDGET:							\$ 915.00	\$ 3,000.00	\$ 3,915.00
10								ORGANIZATION SHARE	GRANT SHARE	
11	*COST SHARE % =						23.37%	23.4%	76.6%	
12										

FIGURE 6 – Project Site 5: Tobit’s Trace Spring Garden: St. Raphael’s Episcopal Church on Cardinal Run (From Application)



Project Personnel

Dave Sevigney, Key Steward, and Skybox Ecological Services, Contractor

Summary

The project is located at the rear of the property owned by St. Raphael Episcopal Church, adjoining the Colony Neighborhood. It contains a tributary to Cardinal Run that makes its way to what is known as “Blue Hole.” The church was awarded a series of grants to clear out invasive plant material like honeysuckle, winter creeper, and poison hemlock and create a more natural stream bed feature to use for walking trails. Each year we replant native flowering, fruit, and nut-bearing trees, shrubs, and plant materials in order to maintain the ecological balance for the area and keep invasive species of plants at a minimum.

St. Raphael Episcopal Church created a contemplative, educational walking trail through the wooded area, across the stream bed, and around the rear wildflower meadow. We have plenty of parking and by opening the area to the neighborhood, people can enjoy the natural beauty of the site on a frequent basis. A new stair-stepped path with a handrail and seating at the top of the hillside make the area even more accessible. Throughout the week many people visit the area to enjoy its peaceful beauty.

The Request

Continued and ongoing annual maintenance is required in order to control invasive plant species. In 2023 the hillside draining to the creek was seeded with native grasses and forbs that compete well with unwanted species and are more attractive. Regular mechanical cuttings of the slope and the wildflower meadow are required for best results. The objective is to increase the diversity of native plant species while reducing the abundance of nonnative plants, thereby achieving a better balance and aesthetic for this important stream and wildlife area.

Chinquapin Oak planting and Herbaceous layer restoration of the hillside

Spot treatments, herbicide and/or mechanical removal, of specific plants should be done every month throughout the growing season. Since the bush honeysuckle (*Lonicera maackii*) has been removed in this area, it has been replaced by a variety of native and non-native plants. Some of the most challenging to control are winter creeper (*Euonymus fortunei*) and poison hemlock (*Conium maculatum*). However, continued efforts are reducing these species. In addition, there are some native species that are not aesthetically pleasing in this area; pokeweed (*Phytolacca americana*), southern blackberry (*Rubus argutus*), and summer grape (*Vitis aestivalis*). Currently this area is cut to 6 to 8 inches in the late summer or early fall.

FIGURE 7 – Picture of Progress at Project Site 5, Tobit’s Trace Spring Garden



We will continue to seed and plant the hillside in native grasses, wildflowers and forbs that should compete well with the existing species and look better as well. The primary grass is Virginia wild rye (*Elymus virginica*), but also include purpletop grass (*Tridens flavus*), deertongue (*Panicum clandestinum*), fall panicum (*Panicum anceps*), and fox sedge (*Carex vupinoidea*). Forbs include purple phacelia (*Phacelia bipinnatifida*), Miami mist

(*Phacelia purshii*), wild hyacinth (*Camassia scilloides*), Illinois bundleflower (*Desmanthus illinoensis*) and bergamot (*Monarda fistulosa*).

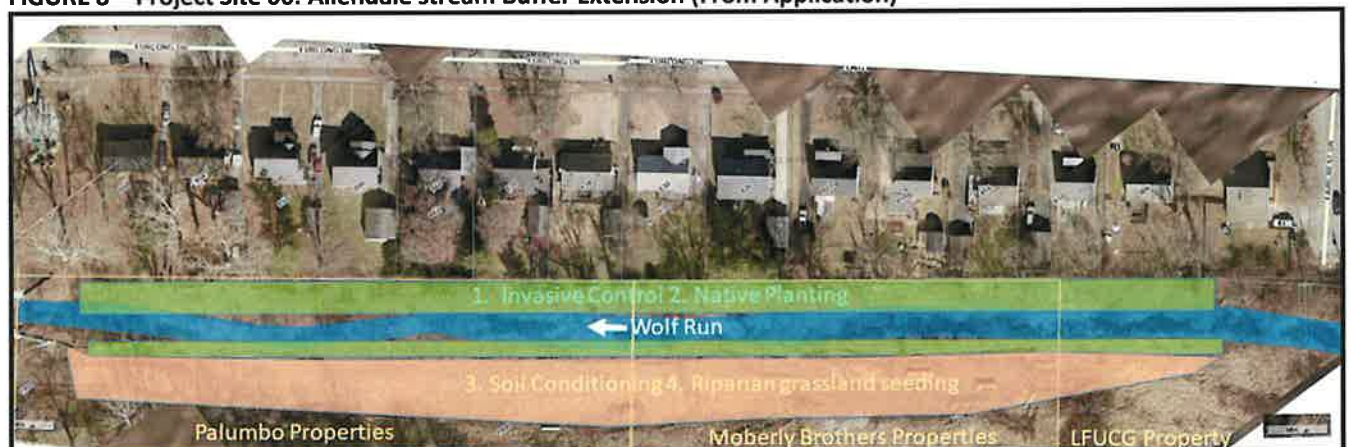
The area will still require mechanical cutting. It should be cut six times a year for the best results. Spot treatments, herbicide and/or mechanical removal, of specific plants should be done every month throughout the growing season (May – October). The proposed herbaceous layer restoration will increase the diversity of native plant species, reduce the abundance of non-native plants, as well as achieve a better aesthetic for this area.

In addition to herbaceous plant installation, we are proposing to add three (3) ball and burlap chinquapin oak (*Quercus muhlenbergii*) or comparable trees. There are some existing large remnant chinquapin oaks nearby and these trees will be future legacy trees and provide additional shade for the hillside.

TABLE 7 – Project Site 5 (From Application)

	Type of Expense	Participants	Item	Unit Price	Unit	Quantity	Funded by Organization	Funded by Grant	Total Expense
1	Contracted Services	Bids/Skybax	Treat and remove resprouts in previously cleared areas	\$ 180.00	Per treatment	10	\$ -	\$ 1,800.00	\$ 1,800.00
2	Plant Materials	Bids/Skybax	Re-seed as needed for successful coverage	\$ 800.00	Per Project	1	\$ -	\$ 800.00	\$ 800.00
3	Plant Materials	Bids/Skybax	Planting 3 new ball & burlap trees	\$ 2,400.00	Per Project	1	\$ 500.00	\$ 1,900.00	\$ 2,400.00
4	Contracted Services	Bids/Skybax	Keeping perimeter/fence line mowed of wildflower field and trail maintenance	\$ 200.00	Per time	8	\$ 600.00	\$ 1,000.00	\$ 1,600.00
5	Volunteer Time	St. Raphael	weeding, mulching, light maintenance; education	\$ 7.25	Per Hour	28	\$ 203.00	\$ -	\$ 203.00
6	Project Management	Ken Cooke	Grant Accounting, Purchasing, Financial Administration	\$ 18.00	Per Hour	5	\$ 90.00	\$ -	\$ 90.00
7	Project Management	Laurie Daugherty/St Raphael Parish	Key Steward Event Coordination, volunteer organization and planning	\$ 18.00	Per Hour	5	\$ 90.00	\$ -	\$ 90.00
8	TOTAL PROJECT BUDGET:						\$ 1,483.00	\$ 5,500.00	\$ 6,983.00
9							ORGANIZATION SHARE	GRANT SHARE	
10	*COST SHARE % = 21.24% OK						21.2%	78.8%	
11									

FIGURE 8 – Project Site 06: Allendale stream Buffer Extension (From Application)



Project Personnel

Ken Cooke, Project Coordinator, Cavan Allen, Neighborhood Liaison, and Contractor: Skybax Ecological Support

Water Quality Problem Addressed

With the completion of Sanitary Sewer work in the area and a proposed stormwater management feature slated for the adjacent property, there is a need to engage adjacent property owners in supporting these water quality initiatives. Friends of Wolf Run was asked to provide assistance to property owners who back up to the creek along Furlong Drive to address invasive Bush Honeysuckle and low-quality buffer vegetation. This proposal will enhance the function of that buffer and provide temporary soil loss from Sanitary Sewer construction in the floodway.

Project Activities

1. Cut, treat, and chip on site or remove Asian Bush Honeysuckle, vines on trees and Bradford Pear along the stream. (about 1.5 acres).
2. Plant native seedlings appropriate for utility rights of way (Rough Leaved Dogwood, Native Plum, Redbud, etc.).

3. A neighborhood steering committee will be convened to provide outreach education and property owner participation.
4. Volunteer stream walks and neighborhood work days will be scheduled to involve area residents in caring for the property behind their homes on Furlong.

Preparation for potential Stormwater Quality Project

The work will be done with the understanding that the left descending bank will be subject to a much-needed flood mitigation and water quality project that’s part of the Southland Flood Mitigation Study.

Lands controlled by LFUCG will require an encroachment agreement (permit) from the LFUCG Division of Environmental Services. The contractor involved is a city-approved contractor (Skybax Ecological Services) Work will not proceed until an encroachment agreement is finalized. We will coordinate closely with the Division of Water Quality Stormwater Program staff planning future stormwater control features for the zone.

Water Quality Impact will include about 66,000 square feet of new buffer plus temporary stabilization of about 80,000 square feet in the wetland bottomland area on the left descending bank of the creek.

TABLE 8 – Project Site 6 (From Application)

Type of Expense	Participants	Item	Unit Price	Unit	Quantity	Funded by Organization	Funded by Grant	Total Expense
1 Contracted Professional Services	Skybax/Bid	Cut, treat and chip on site or remove Asian Bush Honeysuckle, vines on trees and Bradford Pear along the stream	\$ 5,000.00	Per Acre	1.5	\$ -	\$ 7,500.00	\$ 7,500.00
2 Plant Materials	Skybax/area Vendors	native seedlings appropriate for utility rights of way (Rough Leaved Dogwood, Native Plum, Redbud, etc..)	\$ 1,500.00	Per Project	1	\$ -	\$ 1,500.00	\$ 1,500.00
3 Project Coordination	Volunteer Key Steward	Project management, Contractor Supervision, Planning/Communications	\$ 18.00	per hour	20	\$ 180.00	\$ -	\$ 180.00
4 Volunteer Hours	Neighborhood Committee	Neighborhood feedback, coordination, promotions and work days	\$ 7.25	per hour	20	\$ 145.00	\$ -	\$ 145.00
TOTAL PROJECT BUDGET:						\$ 325.00	\$ 9,000.00	\$ 9,325.00
*COST SHARE % =						3.49%	ORGANIZATION SHARE 3.5%	GRANT SHARE 96.5%

FIGURE 9 – Project Element 7: Stormwater Pond Aeration/Treatment Systems (From Application)



Project Personnel

Ken Cooke, Project Coordinator, Steven Rogers, McConnell Spring Park Manager, and Bruce Hutcheson, Solar Technician

Project Staff

Friends of Wolf Run and McConnell Springs Park staff propose to continue operation of two innovative pond management systems that include “Floating Wetland Islands” and maintenance for Solar Powered Pond Aerators. Ken Cooke, Project Coordinator, Bruce Hutcheson, Project Technical Lead and Steven Rogers, Floating Wetland Island Supervisor will manage the effort

Water Quality Problem Addressed

Stormwater Retention Ponds are often plagued with nutrient enrichment, algae blooms and low oxygen conditions. Mechanical control measures are expensive, and some pond owners are resorting to chemical controls (using Chelated Copper compounds and “bluestone” copper sulfate to try to control nuisance algae. Application of these chemicals in stormwater quality treatment ponds is against regulation, but private pond owners often resort to the use of the compounds.

Stormwater Pond Activities

The team will continue to maintain four floating wetland islands installed at McConnell Spring Park Pond. The team is also requesting funding for maintaining electric motors associated with several solar-powered pond aerators (Replacing armature and seals in the motors after 3-5 years of service. For about \$150.00 each) and adding one new solar-powered pond aerator at McConnell Springs Park Pond. In addition to McConnell Springs, units are being operated at Cross Keys Park.

TABLE 9 – Project Site 7 (From Application)

	Type of Expense	Participants	Item	Unit Price	Unit	Quantity	Funded by Organization	Funded by Grant	Total Expense
1	Plant Materials	Area Nurseries	Plant materials for floating wetland islands	Per Each	\$ 300.00	1	\$ -	\$ 300.00	\$ 300.00
2	Materials and Supplies	Area Vendors	Anchoring, floatation, plant media repair materials	Bulk Price	\$ 400.00	1	\$ -	\$ 400.00	\$ 400.00
3	Volunteer Time	Floating Wetland Island Operators	Repair, replanting, monitoring and installation	Per Hour	\$ 7.25	20	\$ 145.00	\$ -	\$ 145.00
4	Project Coordination	Key Steward	Project management, volunteer supervision, Design	Per Hour	\$ 18.00	10	\$ 180.00	\$ -	\$ 180.00
5	Materials and Supplies	Area vendors	Repair for Solar Pond Aerator Electric Motors	Per Each	\$ 150.00	2	\$ -	\$ 300.00	\$ 300.00
6	Project Coordination	Friends of Wolf Run	Grant Management, Accounting, Finance	Per Hour	\$ 18.00	5	\$ 90.00	\$ -	\$ 90.00
7	Donated Professional Services	Solar technician Time,	Repair/retrieval of solar pond aerators	Per Hour	\$ 25.00	5	\$ 125.00	\$ -	\$ 125.00
8	Signage	Area Vendors	Interpative 24X36 aluminum/PVC Lamanate Sign describing pond features	Per Each	\$ 150.00	2	\$ -	\$ 300.00	\$ 300.00
9	TOTAL PROJECT BUDGET:						\$ 540.00	\$ 1,300.00	\$ 1,840.00
10							ORGANIZATION	GRANT	
11	*COST SHARE % = 29.35% OK						SHARE	SHARE	
12							29.3%	70.7%	

FIGURE 10 – Project Element 8: Native Plant Materials Propagation and Distribution Support (From Application)



Project Personnel

Jannine Baker, Native Plant Specialist, Craig Lock, Support Services

Project Need

We have developed efficiencies in procuring and distributing native plant materials to our project sites, and have found that sourcing suitable plant materials requires a great deal of forethought and planning. (Often we will need to order materials a season in advance) This support service, headed by Native Plant Specialist, Jannine Baker, Retired from the University of Kentucky Plant Pathology Department (Pictured left) volunteers to provide consulting services, installation, maintenance training, acquisition, care, distribution and tracking for suitable plant materials for stream buffer restoration.

Materials are to be ordered in bulk, packaged in suitable pots and growth media, different species are combined in customized allotments for individual project sites then distributed in a timely manner at the start of the planting season.

In addition to serving sites in Wolf Run watershed (our priority) we plan to share unclaimed materials with other stream buffer restoration projects on parks and greenways in South Elkhorn, Hickman Creek and Town Branch to insure all plant materials acquired are distributed each planting season.

Our focus on understory/smaller shrubs is designed to be complimentary to other tree distribution efforts provided by Trees Lexington, the Urban Forest Initiative and Reforest The Bluegrass (We focus on smaller, utility friendly plant materials suitable for riparian areas The types of plants include perennial ground cover and smaller shrubs/understory trees with limited larger trees for suitable areas.

Examples of plant materials distributed:

- kentucky coffee tree
- persimmon
- rough leaved dogwood
- redbud
- eastern wahoo
- sycamore
- american fringe tree
- ninebark
- silky dogwood
- wild plum
- black haw viburnum
- elderberry
- pawpaw
- buttonbush
- swamp white oak
- smooth sumac

TABLE 10 – Project Site 8 (From Application)

	Type of Expense	Participants	Item	Unit Price	Unit	Quantity	Funded by Organization	Funded by Grant	Total Expense	
1	Donated Professional Services	Native Plant Specialist Jannine Baker	Plant selection, acquisition, potting, consulting and distribution	\$ 40.00	Per Hour	15	\$ 600.00	\$ -	\$ 600.00	
2	Plant Materials	Area vendors/suppliers Commercial Nurseries	Shrub/tree seedlings, seed, native plants	\$ 1,000.00	Per Project	1	\$ -	\$ 1,000.00	\$ 1,000.00	
3	Planting Materials and Supplies	Area vendors/suppliers Commercial Nurseries	Potting Media, pots, tools, mulch, labling,	\$ 500.00	Per Project	1	\$ -	\$ 500.00	\$ 500.00	
4	Project Management	Friends of Wolf Run Treasurer	Ordering, supplies delivery, accounting, reporting	\$ 18.00	Per Hour	5	\$ 90.00	\$ -	\$ 90.00	
5	TOTAL PROJECT BUDGET:							\$ 690.00	\$ 1,500.00	\$ 2,190.00
6								ORGANIZATION SHARE	GRANT SHARE	
7								31.5%	68.5%	
8										
9										

*COST SHARE % = 31.51% OK

FIGURE 10 – Project Element 9: UK Back Yard Stream Stewards Training and Support (From Application)



Project Personnel

Dr. Amanda Gumbert, Project Lead, Lee Meyers, Extension Specialist, Harrison Whaley, Drone Operator

The University of Kentucky will provide the following services to achieve the goals of the Stream Buffer Stewardship project.

Duration of Project

Manage Backyard Streams Certification Program. Activities include managing participant inquiries, maintaining website for Core Competencies (including updating content, graphics, and maintaining availability to new stream stewards), distributing certificates, and maintaining supplemental video and technical resources.

Spring/Summer 2024

- Capture video and photo (including ground level and drone) documentation of up to five improved/restored stream buffers and/or greenways within the LFUCG urban service boundary (priority given to those utilizing Stormwater Quality Projects Incentive Grant Program funds). Selected projects will represent a cross-section of scale, resources, etc.

- Gather and compile historic and current information on same stream buffers/greenways regarding restoration effort, size of project(s), volunteer base, etc.

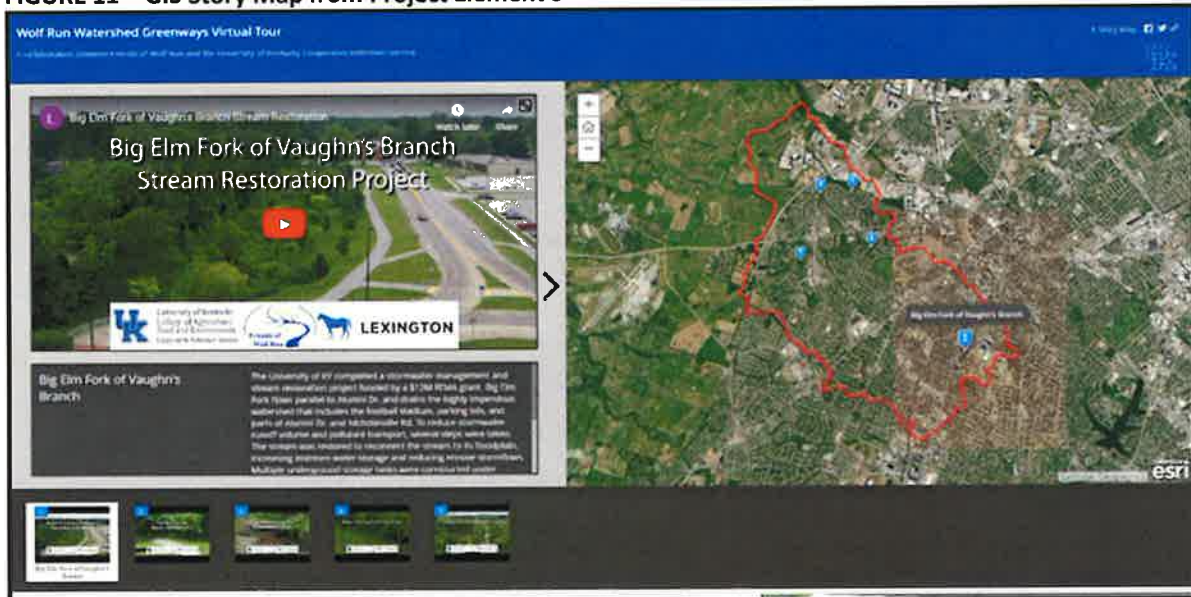
Summer 2024

Provide one, ½-day stream buffer/greenways tour of Wolf Run projects. Tour will include stream/greenways restoration best practices exchange. 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.

Fall 2024/Winter 2025

Develop virtual tours of up to five improved/restored stream buffers and/or greenways using the video/photo documentation gathered in Spring/Summer 2024 and historic and current information about the projects. Videos will be embedded in the existing StoryMap developed with a previous project funded via the Stormwater Quality Projects Incentive Grant Program. This StoryMap is linked through the University of Kentucky Backyard Streams program website, providing open access to stream stewards, watershed coordinators, and potential restoration volunteers throughout the LFUCG service area.

FIGURE 11 – GIS Story Map from Project Element 9



Late Winter/Early Spring 2025

Plan and facilitate a greenways/stream buffer best practices discussion among key stream stewards and greenways volunteers. Focus will be on sharing past successes, challenges, and identifying opportunities for the upcoming planting season. Target audience will include 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.

Details

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

TABLE 11 – Project Site 9 (From Application)

	Type of Expense	Participants	Item	Unit Price	Unit	Quantity	Funded by Organization
1	Contracted Services	University of KY Extension Specialists	Backyard Streams Steward Certification Program Coordination	\$ 35.00	hour	40	\$ 700.00
2	Printing	UK Print Services	Stream Guides, Brochures, Guidance Documents	\$ 1.15	Each	400	\$ 460.00
3	Training/Support	University of KY Extension Specialists	Stream Stewards Best Practices Facilitated Workshop	\$ 750.00	Each	1	\$ -
4	Field Days	University of KY Extension Specialists	Stream Buffer Restoration Tours	\$ 150.00	Per person	20	\$ -
5	Contracted Services ThePhaseTwo Drone Services		Improved stream buffers/greenways video documentation	\$ 75.00	Per Hour	15	\$ -
6	Contracted Services	University of KY Extension Specialists	Improved stream buffers/greenways video editing, development	\$ 1,000.00	Each	5	\$ 2,000.00
7				TOTAL PROJECT BUDGET:			\$ 3,160.00
8							ORGANIZATION SHARE
9				*COST SHARE % =			26.93% OK
10							26.9%

FIGURE 12 – Project Element: 10 Overall Project Administration (From Application)



Project Personnel

Ken Cooke, Project Administrator, Friends of Wolf Run, Friends of Wolf Run Board of Trustees.

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

1. Providing 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, website, email distribution and printed flyers.
4. Ordering and delivering requested tools, equipment and supplies to volunteer leadership.
5. On-site field support for Key Stewards, organizing meetings and planning sessions with property owners, city officials and volunteer leadership.
6. 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.
7. Provide insurance services for project locations requiring indemnification and/or liability coverage (DES Greenways).
8. Making financial arrangements, purchasing coordination, accounting, grant reporting and record-keeping for the overall project.
9. Project long-range planning for future funding and alternative funding sources for grant match and new development.

TABLE 12 – Project Site 10 (From Application)

	Type of Expense	Participants	Item	Unit Price	Unit	Quantity	Funded by Organization	Funded by Grant	Total Expense
1	Signage	Friends of Wolf Run Trustees	No Mow Zone Boundary Markers, Stickers and polls	\$11.00	Per Each	50	\$ -	\$ 550.00	\$ 550.00
2	Printing	Friends of Wolf Run Trustees	Printing, meeting handouts, Planning Documents	\$1.00	Per Each	300		\$ 300.00	\$ 300.00
3	Internet Information	Web Development Specialist	Social Media and Web Site Operations	Variable	Per Campaign	1	\$ 500.00	\$ 145.00	\$ 645.00
4	Field Day	Friends of Wolf Run Trustees	Field Trip for Project Participant and Key Stewards	\$250.00	Per Event	2	\$ 250.00	\$ 250.00	\$ 500.00
5	Insurance Services	State Farm Insurance	Liability Coverage for Stream Buffers on DES Properties	\$400.00	1 Year Coverage	1.5	\$ 600.00		\$ 600.00
6	Materials and Supplies	Area Vendors	Landscaping Supplies/volunteer Tools and Equipment	Variable	Per Unit	1		\$ 800.00	\$ 800.00
7	Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	\$18.00	Per Hour	80	\$ 1,440.00	\$ -	\$ 1,440.00
8	TOTAL PROJECT BUDGET:						\$ 2,790.00	\$ 2,045.00	\$ 4,835.00
9							ORGANIZATION SHARE 57.7%	GRANT SHARE 42.3%	
10	*COST SHARE % = 57.70% OK								
11									

Stormwater Quality Projects Incentive Grant Program



FRIENDS OF WOLF RUN, INC. (FOWR)