

**GRANT AWARD AGREEMENT**  
*Fiscal Year 2017 Class A Incentive Grant Program*

THIS AGREEMENT, made and entered into on the 9<sup>th</sup> day of February, 2017, 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 **\$43,520.00** (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. 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 22 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.

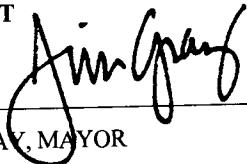
- (16) The Grantee understands that the **Grant shown herein in Paragraph 1 is a not-to-exceed amount**, and any additional funding needed to complete the project elements listed in Attachment A is the responsibility of the Grantee. If it becomes apparent to the Grantee or the Government that the Grantee 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-

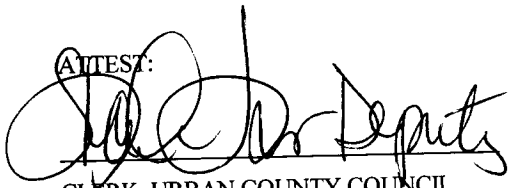
ments or stipulations of this Agreement, the Government shall provide the Grantee thirty (30) calendar days to address the deficiency or violation. If the Grantee does not, after the thirty (30) days, come into compliance with this Agreement, the Government shall thereupon have the right to terminate 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:   
JIM GRAY, MAYOR

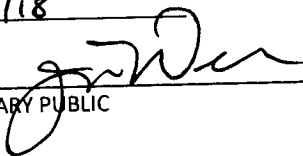
ATTEST:  
  
CLERK, URBAN COUNTY COUNCIL

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

BY:   
NAME: Ken COOKE  
TITLE: Treasurer

The foregoing Agreement was subscribed, sworn to and acknowledged before me by Ken Cooke as the duly authorized representative for and on behalf of FOWE, on this the 11<sup>th</sup> day of January, 2017.  
My commission expires: 6/5/18

51-807 JUSTIN WELCH  
Notary Public  
State at Large  
Kentucky  
My Commission Expires June 5, 2018

  
NOTARY PUBLIC

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

**GRANT PROGRAM:** FY2017 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. (FOWR)  
639 Cardinal Lane  
Lexington, KY 40503  
KY Organization #: 0612068

**Organization President:** Lisa Collins, President  
859-797-0011  
arlobrindle@yahoo.com

**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.  
Bruce Hutcheson, President  
Lisa Collins, Vice-President  
Frances Stokes, CPA

**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 and Recreation: Approves planting plans on park property, works with LFUCG contractors to protect plantings.  
Vernon Azevedo, 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. Clays Mill Greenway: Layton Register, Spring Meadows Neighborhood
2. Deauville Drive Greenway: Jerome Higginbotham, Key Steward, JH Technology Trust, Dunbar High School
3. Lafayette, Southbend, and Picadome Creek Rights of Way: Sandy Schafer, Key Steward, Picadome Neighborhood, Picadome Neighborhood, Sherri R. McPhearson, Lafayette High School, Y Club Sponsor
4. Eastway Wetland Seep/Eastway and Sunseeker Drives: Eric Siegel, Hill-N-Dale NA with support from Southland Association
5. Hill-N-Dale Park Stream Bank Restoration and Storm Drain Outfall Mural: Gail Lightener, Key Steward, Hill-N-Dale Neighborhood Association.
6. Allendale-Moberly Spring Greenway "Riparian Arboretum" Demonstration Area: Dr. Julian Campbell, Bluegrass Woodland Restoration Trust, Ken Cooke, Jean Watts, Layton Register
7. Pine Meadows, Mason Headley & Cardinal Hill Neighborhood Association: Mead Overbeck, Key Steward, and Pine Meadows, Mason Headley & Cardinal Hill NA
8. Preston's Cave Spring Park Stream Buffer Restoration and Inventory: Gary Libby, Skybox Ecological Restoration
9. Project Training and Technical Support: Amanda Gumbert, PhD, Carmen Agouridis, P.E., PhD

## 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 leadership 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. Allendale-Moberly Spring Greenway "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, post cards, and/or neighbor to neighbor personal invitations. During stream walks, discuss water quality, habitat and stream side 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. **Leadership Training and Support** through field days, on-site consultants with restoration experts.
6. **Education and Outreach** through 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 stream side property owners.
7. **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.
8. **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.
9. **Clearly marking Stream Buffer Improvement areas** with fiberglass posts and educational signs.

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

There are nine project sites planned to be supported, 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. Clays Mill Greenway Demonstration Area, 1869 Clays Mill Road
2. Deauville Drive Greenway, Cardinal Valley Neighborhood
3. Lafayette, Southbend and Picadome Creek Rights of Way
4. Eastway Wetland Seep, Hill-N-Dale Neighborhood
5. Vaughn's Branch Versailles Road Corridor, Oxford Circle and Cardinal Hill
6. Allendale-Moberly Spring Greenway "Riparian Arboretum", Allendale Dr.
7. Pine Meadows, Mason Headley & Cardinal Hill Neighborhood Association
8. Preston's Cave Spring Park, 1937 Dunkirk Drive
9. Best Practice Exchange, Leadership Training and Technical Support

#### **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 distribution of publications, coordinating field trips to each site, providing signage and boundary marking, and promotions via email, social media, and web site 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.

#### **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**

- Design, construction, and plant installation shall meet the following requirements:
  - a) 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.
  - b) Applicant shall obtain written approval/agreement prior to work being done on properties not owned by the applicant.
  - c) All existing utilities shall be located, contacted, and coordinated with prior to any work being performed if within the project vicinity.
  - d) 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.
  - e) Riparian Arboretum plant material sales shall not be held unless approval is granted from Grant Administrator and LFUCG Division of Law.
- 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.
- Organization proposes a larger cost share beyond that required by the grant program. Budget shall reflect the 29.1% cost share offered in the application (Approximately \$17,830.83).

## **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 2017
Conduct stream clean up and trash removal	April 2017, October 2017
Conduct invasive plant removal work days	April 2017, October 2018
Conduct native plant installations	May 2017 – October 2018
Follow up work days in existing riparian areas	May – October 2017
Final Report to LFUCG	November 1, 2018

**PROJECT BUDGET – GRANT ELIGIBLE EXPENSES & ORGANIZATION MATCH**

Table 2 lists the Eligible Expenses for this project. Only properly invoiced items shall be reimbursed with grant monies or counted toward the Organization’s match. Any work performed on this project prior to Grant Award by Urban County Council and Notice to Proceed from the LFUCG Grant Manager is not an eligible expense and shall not be reimbursed or counted toward the 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)).

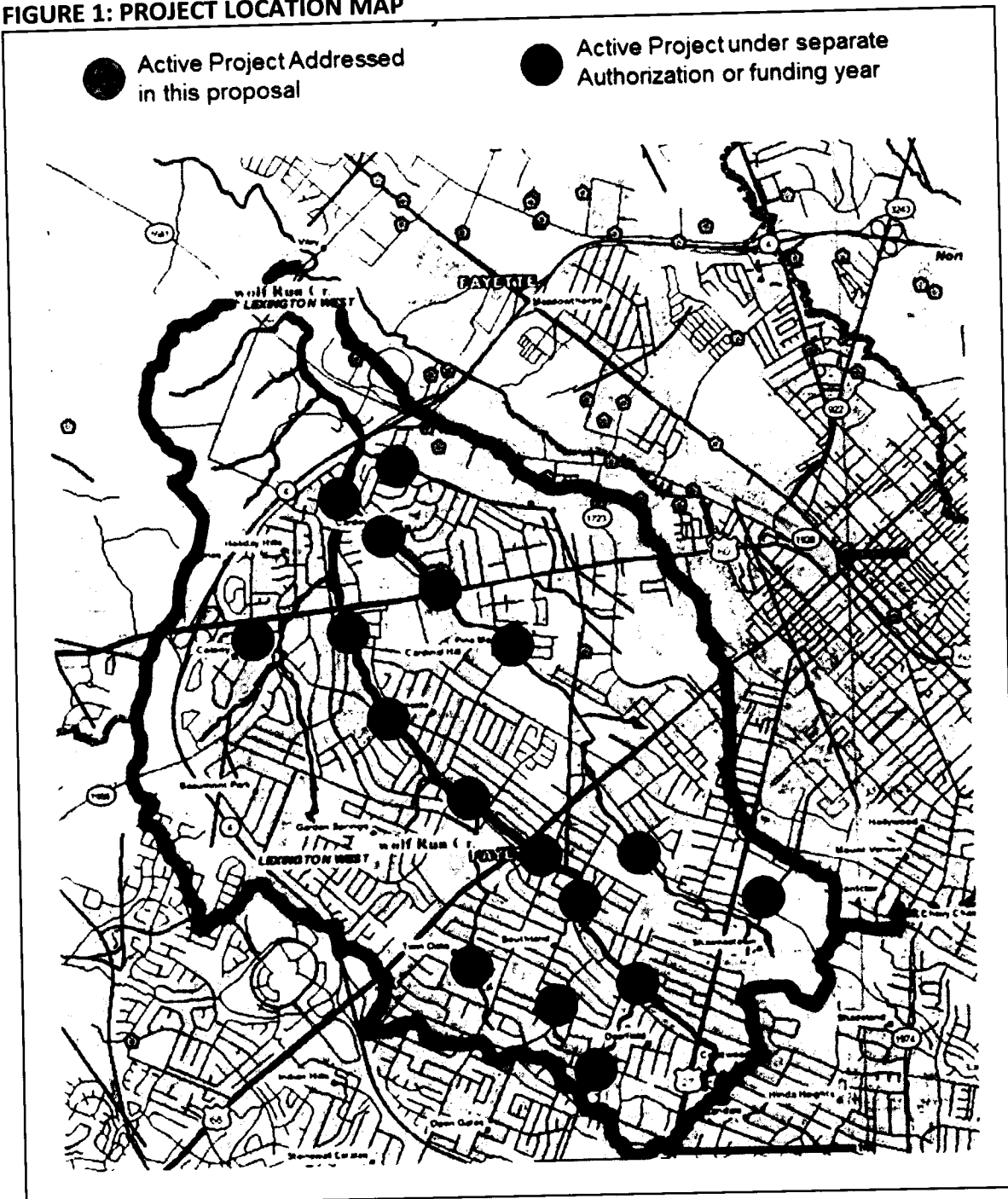
**TABLE 2 - PROPOSED PROJECT BUDGET**

Overall Project Budget									
TYPE OF EXPENSE	PARTICIPANTS	ITEM	Price	UnR	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE	
<b>1 Project Element: Grant Management</b>									
2 Project Management	Key Stewards, Friends of Wolf Run Leadership	Project Management	\$ 2,768.95	each	1	\$ 2,768.95	\$ -	\$ 2,768.95	
<b>3 Project Element: Infiltration Garden</b>									
4 Volunteer Time	Friends of Wolf Run Inc, Schools, Neighborhood, Community Volunteers	Volunteer Time	\$ 7.25	each	253.103	\$ 1,835.00	\$ -	\$ 1,835.00	
5 Contracted Services	Bids accepted, Skybax, Ecogro, Leachman Landscaping	Contracted Services	\$ 18,300.00	each	1	\$ 400.00	\$ 17,900.00	\$ 18,300.00	
6 Plant Materials	Area Nurseries, KY Division of Forestry, Seed Suppliers	Plant Materials	\$ 10,000.00	each	1	\$ -	\$ 10,000.00	\$ 10,000.00	
7 Materials and landscaping supplies	Area Vendors	Materials and landscaping supplies	\$ 2,700.00	each	1	\$ 300.00	\$ 2,400.00	\$ 2,700.00	
8 Installation of native special plantings; with care for 1year	Specialty Botanical Organizations/Vendors	Installation of native special plantings; with care for 1year	\$ 9,000.00	each	1	\$ 7,500.00	\$ 1,500.00	\$ 9,000.00	
<b>9 Project Element: Education</b>									
10 Training and Certifications	Dr. Amanda Gumbert, Dr. Carmen Agouridis, KY Dept. Agriculture	Training and Certifications	\$ 9,271.00	each	1	\$ 2,021.00	\$ 7,250.00	\$ 9,271.00	
11 Effectiveness Monitoring	Bluegrass Community and Technical College, Town Branch Labs	Effectiveness Monitoring	\$ 2,015.00	each	1	\$ 1,215.00	\$ 800.00	\$ 2,015.00	
12 Printing, Tours, Workshops and Communications	Project Leadership and area scientists, resource management agencies	Printing, Tours, Workshops and Communications	\$ 3,750.00	each	1	\$ 1,750.00	\$ 2,000.00	\$ 3,750.00	
13 Signage	Friends of Wolf Run	Signage	\$ 1,710.68	each	1	\$ 40.68	\$ 1,670.00	\$ 1,710.68	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>COST SHARE % = 29.1% OK</b>  <b>MUST BE &gt; 20%</b> </div>									
<p>* Note: Organization share must be 20% of total project costs.</p>									

## SUPPLEMENTAL PROJECT ELEMENT INFORMATION

Note: Supplemental project element information is provided from application.

**FIGURE 1: PROJECT LOCATION MAP**



1. Clay's Mill Greenway
2. Deauville Drive Greenway
3. Southbend, Lafayette Parkway, Picadome
4. Eastway Wetland Seep
5. Hill-N-Dale Park Stream Restoration
6. Allendale Stream Buffer Restoration Nursery and Demonstration Area
7. Pine Meadow Park Section of Vaughn's Branch
8. Preston's Cave Spring Park
9. Project Training and Technical Support

## Project Site 1 Detail: Clays Mill Greenway Demonstration Area

### Personnel

Layton Register, Key Steward, Spring Meadows Neighborhood

### Activity and outlook

Wolf Run flows through this LFUCG Sanitary Sewers Buy Out property, which now hosts one of our longest standing stream buffer stewardship areas. Our Key Steward continues to provide maintenance, invasive control and new infill plantings along the waterway. The site serves as one of our demonstration areas where people can visit to view plants that now have several years' growth. New and innovative control methods are tested here, including non-motorized, natural weed control methods using historic hand tools and large format scythes.

### Project 01 Budget (From Application)

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
Volunteer Time	Friends of Wolf Run Inc, Community Volunteers	Follow-up control of honeysuckle/weeds; planting; mulching	\$ 7.25 Per Hour	25	\$ 181.25	\$ -	\$ 181.25
Project Management	Layton Register, Key Steward	Expert Discounts and Planning Services	\$ 13.25 Per Hour	15	\$ 198.75	\$ -	\$ 198.75
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	Area Vendors	Landscaping supplies,	\$ 500.00 Per	1	\$ -	\$ 300.00	\$ 300.00
*COST SHARE % = 25.62%							

## Project Site 2 Detail: Deauville Drive Greenway Demonstration Area

### 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 02 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	\$ 2,500.00 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
*COST SHARE % = 27.78%							

### Project Site 3 Detail: Lafayette, Southbend and Picadome Creek Rights of Way

**Personnel**

Sandy Schafer, Key Steward, Picadome Neighborhood, Sherri R. McPhearson, Y Club Sponsor, Lafayette High School

**Activity and outlook**

Both Wolf Run and Vaughn's Branch flows within walking distance of Lafayette High School. Our key steward will work with the Lafayette High School Y Club in planning educational outings, volunteer service days and native plantings along the creek, focusing on brand new LFUCG FEMA Buy Out properties in the neighborhood. Community volunteers, who started working on this area in 2006, will continue to contribute to trash pickups, invasive plant control and native plantings. Close coordination is expected with LFUCG Division of Sanitary sewers to avoid areas where remedial measures plan construction will take place between now and 2023.

**Project 03 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
			*COST SHARE % =		20.51%			

### Project Site 4 Detail: Eastway Wetland Seep Eastway and Sunseeker Drives

**Personnel**

Eric Seigel, 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 professional follow up on a major invasive control effort for the 1 acre parcel to be sure re-sprouts don't re-claim the area. New infill plantings will be installed by contractors and by volunteers. A maintenance path will be installed with the Neighborhood installing a small foot to allow better access to the property as part of grant match.

**Project 04 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
<b>Project Element: Wetland Restoration Zone and Wetland Plantings [ca. 1 acre]</b>							
Contracted Services	Bids accepted, Skybax, Ecogro, Leachman Landscaping	Repeat foliar treatment and cut/treat resprouts	\$ 1,200.00	per acre	1	\$ 1,200.00	\$ 1,200.00
<b>Project Element: Volunteer Days, Plantings and signage</b>							
Volunteer Hours	Project personnel, FWR and neighborhood	Volunteer Hours for organizing and advertising event	\$ 7.50	per hour	20	\$ 150.00	\$ - \$ 150.00
Project Management	Hill-N-Dale Neighborhood Association	Eric Seigel 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	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	\$ 300.00	\$ 300.00 \$ 600.00
<b>TOTALS</b>							
			*COST SHARE % =		23.99%		

**Project Site 5 Detail: Hill-N-Dale Park Stream Bank Restoration and Storm Drain Outfall Mural**

**Personnel**

Gail Lightener, Key Steward, Hill-N-Dale Neighborhood Association

**Activity and outlook**

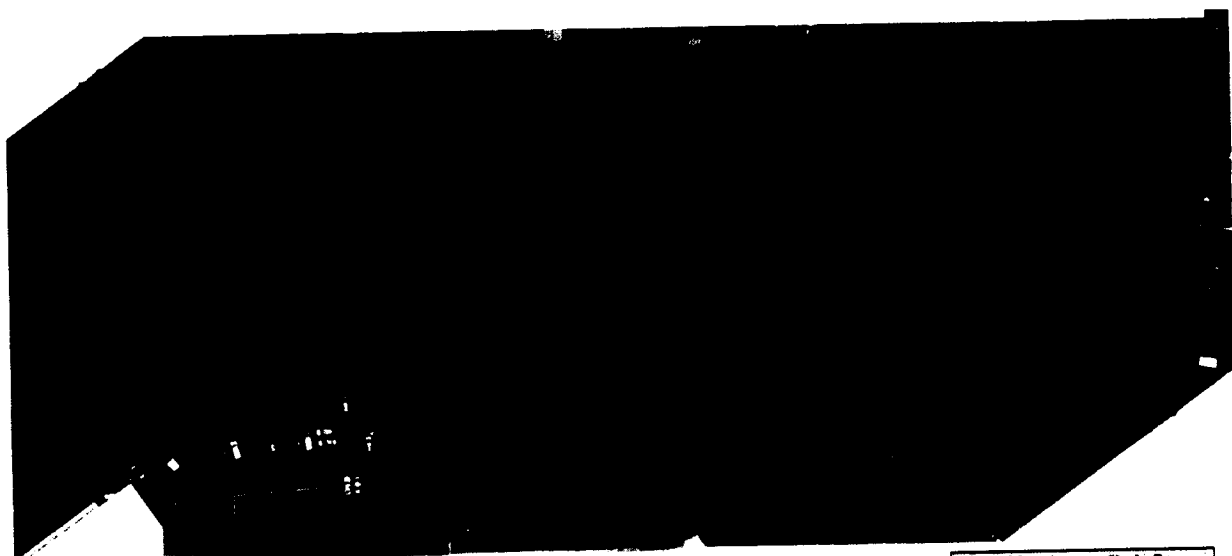
A perennial stream flows through Hill-N-Dale Park that is currently mowed to the water's edge and hosts a number of large Bush Honeysuckle Plants and a large cement stormwater headwall outfall from which the creek emerges. The Hill-N-Dale Neighborhood has slated this section of creek for beautification and creating a neighborhood focus project with the goal of creating an aesthetically pleasing but functional stream buffer using flowering shrubs and perennial plants.

Part of the plan involves designing a storm drain art project to design and install a water quality related mural on the storm outfall head wall with a local wildlife artist willing to donate part of his time for design and installation of the "natural stream based theme denoting how natural streams should function" for the now unsightly concrete structure.

**Project 05 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE		QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
Volunteer Time	Friends of Wolf Run Inc, Community Volunteers	Invasive Bush Honeysuckle Control, Site Preparation	\$ 7.25	Per Hour	25	\$ 181.25	\$ -	\$ 181.25
Professional Services	Designer/Artist	Storm Drain outfall materials, Site Preparation, Design and Painting	\$1,000.00	per Each	1	\$ 400.00	\$ 600.00	\$ 1,000.00
Project Management	Hill-N-Dale Neighborhood	Gail Lightener Key Steward, Project management	\$13.56	Per Hour	20	\$ 271.20	\$ -	\$ 271.20
Project Management	Friends of Wolf Run	Grant Accounting, Purchasing, Financial Administration	\$ 13.56	Per Hour	10	\$ 135.60	\$ -	\$ 135.60
Plant Materials	Area Nurseries, KY Division of Forestry	Seed, shrubs, tree whips and nursery stock	\$ 2,500.00	Per Project	1	\$ -	\$ 2,500.00	\$ 2,500.00
Materials and landscaping supplies	Area Vendors	Landscaping supplies, mulch, signage, volunteer support materials	\$ 300.00	Per Project	1	\$ -	\$ 300.00	\$ 300.00
			*COST SHARE % =		22.52%			

**Project Site 6 Detail: Allendale-Moberly Spring Greenway "Riparian Arboretum" demonstration area**



**Generalized riparian and stream restoration plan for Allendale Greenway Area (Draft 1.0)**

1. **Hillside and Buffer Restoration Area**  
Cut and treat invasives. Remove trash. Setup Upland Plant Demonstration Test Plot.
2. **Moberly Spring Restoration Area**  
Remove and treat invasives. Remove trash and debris. Restore with selected native aquatic and shade tolerant shrubs.
3. **Buffer Restoration Area 2 (Requires additional permission from property owner)**  
Proposed Riparian Plant Test Demonstration Area.
4. **Recommend meeting with Apartment Complex Owners to explore conservation easement to allow plant test and demonstration area as Commercial Water Quality Incentive Project.**

Perennials	Shrubs-Trees
10 Little Leaf	10 Rough Leaf Dogwood
10 Blue Lobelia	10 Wild Plum Tree
10 Cardinal Flower	10 Sugar Maple
10 Black Honeysuckle	10 River Birch
10 Inland Yellow	10 Native Oak
10 Swamp Milkweed	10 Native Hickory
10 Red Top Plant	10 Spotted Sycamore
10 Blackberry	10 Black Gum
10 Blueberry	10 Pin Oak
10 Wild Geranium	
10 Dogwood	

**Personnel**

Dr. Julian Campbell, Project Manager, Bluegrass Woodlands Restoration Trust

Allendale-Moberly Spring Greenway as a 'Riparian Arboretum' for the Central Bluegrass: Establishment of Native Plant Collection for Riparian Zones and Wetlands in this region.

**Personnel**

PROJECT MANAGER: Julian Campbell, Bluegrass Woodland Restoration Center  
Ken Cooke, Friends of Wolf Run; and board members  
Jean Watts, Bluegrass Community and Technical College  
Layton Register, neighborhood representative



### **Purpose and Need**

The Allendale-Moberly Spring Greenway is an important site for potential improvement in water quality on the west side of Lexington. With a relatively broad floodplain, it has already been used for enhancement of the small wetland here in the 1990s, and some recent test plantings coordinated by the Friends of Wolf Run Inc. The city owns land here, and two private tracts have easements for riparian protection. There is virtually no structural development and at least 10 acres are available for environmental improvements. It could become one of the most significant wetland sites within the city that is adjacent to a major stream corridor. Wetter soils are fluventic endoaquepts (Newark and Melvin).

In the whole central Bluegrass Region (mostly Fayette and surrounding counties), there has been much restoration of riparian zones and wetlands within the past 20 years. However, there has been a serious shortage of native plant species for these projects, especially plants with provenance from the Bluegrass Region. Much public funding has been spent on questionable plant material; there has been little accountability in results; and in several cases, there have been failures.

### **Project Outline**

2017/18 Activity will consist of continued removal of bush honeysuckle on low slopes and streambanks along the Allendale Greenway, including necessary follow-up to previous control.

There will be continued replacement with native trees & shrubs in the wetland, spring, low slopes, and streamside areas.

We will aim in this period to largely complete all removal of bush honeysuckle and plant sufficient native trees and shrubs to cover eventually all of the redesigned woodland. Also, we will aim to start regular production of native plant material from the small nursery of willows, dogwoods, roses, buttonbush and other wetland shrubs. This material will be offered to the community under the aegis of LFUCG (who owns the material).

Project work will be coordinated with LFUCG Division of Sanitary Sewers and Division of Water Quality so as not to interfere with Remedial Measures Plan implementation, or to put in jeopardy any work done under this authorization by sanitary sewer line construction.

Only true native plants would be established here instead of the honeysuckle. In addition to general enhancement of the corridor, this extension would focus where possible on areas close to the seeps and springs along the base of this slope. Species to be concentrated on in the plantings include: buckeye, basswood, sugar/black maple, rough leaf dogwood, spicebush, hornbeam, bladdernut, and pawpaw. As initially envisaged, the goal is to prepare for a small "Riparian Arboretum" and associated nursery, at least for woody species.

### **Schedule of Work**

- Spring of 2017 Assessment of existing plantings and continued maintenance
- Spring of 2017 Installation of additional plant materials
- Summer/Fall of 2017 Continued clearing of invasive plants in the corridor
- Summer/Fall of 2017 Preparation of native plant material from the nursery
- December 31, 2017, Final Report and Analysis

### **Potential Developments and Applications in Future**

Further plantings can be designed in more detail at the site during future years, as funds become available. More open areas on the bottomland could be converted to meadows of native grasses and wildflowers, with maintenance by mowing or other means. More sloping areas on the west side of this greenway could be converted into a small woodland restoration, after removal of honeysuckle and ideally the winter-creeper (although the latter will need more intensive work outside the scope of this initial project).

As the site becomes used for a source of plant material, harvesting of seed, cuttings and other material could generate considerable value for government-sponsored restoration projects in the region. Funds for regular maintenance of the site—ensuring its ecological function and genetic collection—could be generated from varied fees, grants or sales of material.

The site would also become an outstanding demonstration for riparian restoration within the city. With controlled public access, it would serve varied educational and recreational functions. The Moberly Spring, itself, is a significant feature that can become a focus for visitors to the site.

**Project 06 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
<b>Project Element: Slopes and Wetlands on Palumbo Apt. and Moberly tracts (ca. 3 acres)</b>							
Contracted Services	Bluegrass Woodland Restoration Center	Honeysuckle removal on slopes at all sections of corridor	\$ 1,000.00	per acre	3	\$ -	\$ 3,000.00
Installation of plantings; with care for 1 year; improvement and expansion of small nursery area	Bluegrass Woodland Restoration Center	Establishment of buckeyes, sugar maples, basswoods, red elms, spicebush, cane, etc after honeysuckle removed	\$ 10.00	per plant	100	\$ 500.00	\$ 500.00
Plant material: special collection; local provenance	Bluegrass Woodland Restoration Center	Collection of native plant material from local sources	\$ 10.00	per plant	100	\$ 1,000.00	\$ -
<b>Project Element: Corridor Connection to Harrodsburg Road (by Frisch's Big Boy)</b>							
Contracted Services	Bluegrass Woodland Restoration Center	Quarterly mulch with straw and/or cutting of tall weeds; further removal of adjacent honeysuckle	\$ 500.00	per acre	0.1	\$ -	\$ 500.00
<b>Project Element: Educational Materials, Seminar and Tour:</b>							
Volunteer Hours	Project personnel, FWR and neighborhood	Volunteer Hours for organizing and advertising event	\$ 7.50	per hour	10	\$ 75.00	\$ -
Printing	Project personnel, FWR and neighborhood	Advertising for event: 200 single page flyers - black & white	\$ 0.10	per flyer	250	\$ -	\$ 25.00
Regular annual tours and extra meetings for developing the site into a Riparian Arboretum	Bluegrass Woodland Restoration Center and potential partners (including UK-LFUCG Arboretum)	Distributing drafts of written plan to develop consensus of potential partners	\$ 500.00	per each	1	\$ 250.00	\$ 500.00
			COST SHARE % =		29.92%		

**Project Site 7 Detail:  
Pine Meadows, Mason Headley & Cardinal Hill Neighborhood Association**

**Personnel**

Mead Overbeck, Key Steward Pine Meadow Neighborhood.

**Purpose and Need:**

Vaughn's Branch of Wolf Run flows through the Pine Meadows, Mason Headley, and Cardinal Hill neighborhood. Our residents are beginning to understand the importance of maintaining proper stream buffers, our continuation budget will engage residents in additional plantings and maintenance along our stream corridor with volunteer work days, native plantings and stream walks.

**Project 07 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
Volunteer Time	Pine Meadow Neighborhood and Community Volunteers	Follow-up control of honeysuckle/weeds; planting; mulching	\$ 7.25	Per Hour	40	\$ 300.00	\$ -
Project Management	Key Steward, Karen Hudson	Mead Overbeck, Key Steward, volunteer organization and planning	\$ 13.56	Per Hour	10	\$ 135.60	\$ -
Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	\$ 13.56	Per Hour	5	\$ 67.80	\$ -
Plant Materials	Area Nurseries, KY Division of Forestry	Seed, shrubs, tree whips and nursery stock	\$ 1,500.00	Per Project	1	\$ -	\$ 1,500.00
Materials and landscaping supplies	Area Vendors	Landscaping supplies, mulch, volunteer support materials	\$ 500.00	Per Project	2	\$ -	\$ 500.00
Totals							
			*COST SHARE % =		20.11%		

## Project Site 8 Detail: Preston's Cave Spring Park Stream Buffer Restoration LLC



**Project Personnel:** Garry Libby, Project Manager, Skybox Ecological Restoration LLC

### Project Objective

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

- 1.1. 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.
  - 1.2. 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.
  - 1.3. Native species to be emphasized in re-plantings here will include Willows, Hydrangea, Dogwoods, Spicebush, Bladdernut, Black Haw and other selected shrubs (e.g., *Amorpha fruticosa*, *Cephalanthus occidentalis*, *Physocarpus opulifolius*, *Ptelea trifoliata*, *Rosa setigera*, *R. palustris*, *Sambucus canadensis*, *Viburnum dentatum*, *Zanthoxylum americanum*).
  - 1.4. Plantings will also include a tree planting on the 2 acres of wetland with emphasis on Swamp White Oak (*Quercus bicolor*), Bur Oak (*Quercus macrocarpa*) and Shumard Oak (*Q. shumardii*).
  - 1.5. At completion of the project, a complete report will be produced, including description of plant material, planting map and plan for future use.
2. **Project Schedule**
    - 2.1. Spring 2017: removal of alien plants along stream and in wetlands.
    - 2.2. Spring and Fall 2017: planting of native plants (as outlined above).
    - 2.3. Spring 2018: establishment of educational signs; development of trails.
    - 2.4. Fall 2018: seminar and release plant inventory and ecological maps.

**Project 08 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
<b>Project Element: Stream Buffer Restoration Zone and Wetland Plantings (ca. 2 acres)</b>							
Contracted Services	Skybax Ecological Services, LLC	Cutting and piling honeysuckle; herbicide application to stumps	\$ 5,000.00	per acre	2	\$ -	\$ 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	\$ -
Contracted Services	Skybax Ecological Services, LLC	Careful identification and removal of unwanted alien plants	\$ 1,000.00	per acre	2	\$ -	\$ 2,000.00
Plant material: special collection; local provenance	Skybax Ecological Services, LLC	Collection and growing of tree seedlings for wetland planting	\$ 5.00	per plant	200	\$ 1,000.00	\$ -
Installation of	Skybax Ecological	Follow-up control of	\$ 5.00	per plant	200	\$ -	\$ 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	\$ -
Printing	Project personnel, FWR and neighborhood	Advertising for event: 200 single page flyers - black & white	\$ 0.10	per flyer	250	\$ -	\$ 25.00
Contracted Services	Skybax Ecological Services, LLC	Preparation of a Species List and Special Features Map	\$ 600.00	per each	1	\$ -	\$ 600.00
*COST SHARE % = 31.1%							

**Project Element 9 Detail: Best Practices Exchange, Leadership Training and Technical Support**

**Project Personnel:**

Amanda Gumbert, PhD  
Carmen Agouridis, PE, PhD

**Timeline:**

Duration of project (Approximately Fall 2017-December 2018)

**Scope of Work:**

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

- Develop four online training modules of Core Competencies related to stream buffer restoration in the areas of basic watershed science, watershed assessment, streamside buffer installation and management, and low-impact development. Training modules will include a participant self-assessment. 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.
- Provide one, ½-day classroom discussion of the Core Competencies and other related stream buffer topics/issues. 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 2018.
- 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 2018.
- Provide one, day-long workshop that will include an evaluation of site installation from the spring 2018 field practicum and other restoration site visits and evaluations. 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 2018.
- Friends of Wolf Run will provide project management, workshop/practicum facility set-up, registration, refreshments and printed materials as needed.

**Project 09 Budget (From Application)**

TYPE OF EXPENSE	PARTICIPANTS	ITEM	UNIT PRICE	QUANTITY	FUNDED BY ORGANIZATION	FUNDED BY GRANT	TOTAL EXPENSE
Training Module Development	Dr. Amanda Gumbert, Dr. Carmen Agouridis	Develop Online Core Competencies Modules Covering Stream Buffer Restoration Topics	\$500.00 each	4	\$1,000.00	\$1,000.00	\$2,000.00
Training	Dr. Amanda Gumbert, Dr. Carmen Agouridis	Core Competencies development	\$750.00 each	1	\$750.00	\$0.00	\$750.00
Training	Dr. Amanda Gumbert, Dr. Carmen Agouridis	Training Workshop (City Wide)	\$150.00 per participant	20	\$0.00	\$3,000.00	\$3,000.00
Training	Dr. Amanda Gumbert, Dr. Carmen Agouridis	Field Practicum Event Including Site Evaluations (City Wide)	\$150.00 per participant	20	\$0.00	\$3,000.00	\$3,000.00
Facility Setup, Registration, and Refreshments for Professional	Friends of Wolf Run Trustees	Coordinate registration, workshop facility, setup and refreshments for participants	\$750.00 per event	2	\$500.00	\$1,000.00	\$1,500.00
Project Management	Friends of Wolf Run Trustees	Grant Accounting, Purchasing, Financial Administration	13.25 per hour	20	\$265.00	\$0.00	\$265.00
Printing	Friends of Wolf Run Trustees	Printing handouts for Core Competencies discussion	\$5.00 each	40	\$0.00	\$200.00	\$200.00
<b>Total</b>							
			<b>*COST SHARE % = 23.47%</b>				

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

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

**Activity and Outlook**

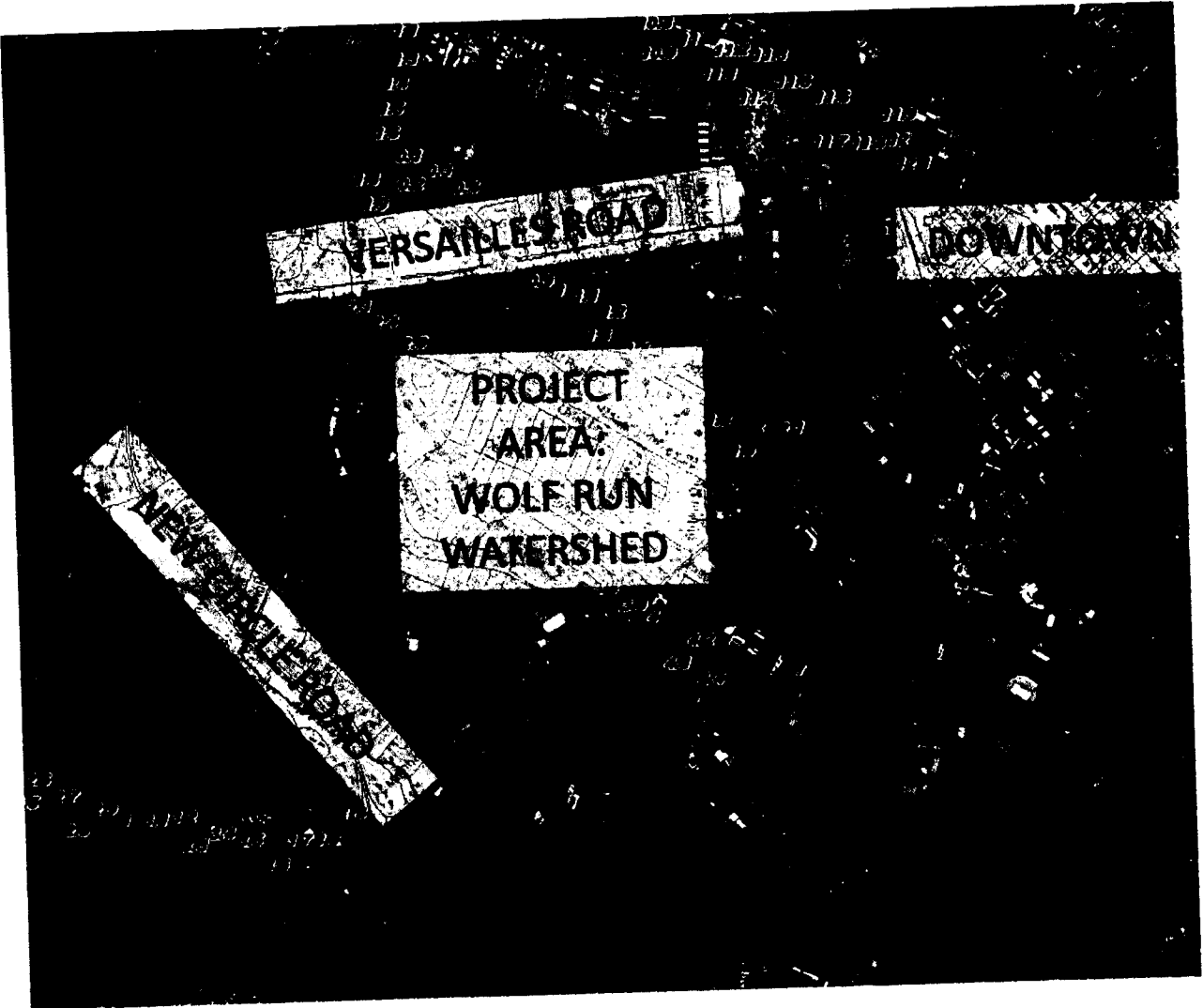
Friends of Wolf Run leadership will provide general project coordination including:

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 match 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	Print and mount stream buffer signs 18X24"	\$38 Per Each	15	\$ 40.68	\$ 570.00	\$ 610.68
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
Communications	Friends of Wolf Run Trustees	Social Media and Web Site Operations	Variable Per Campaign	1	\$ 500.00		\$ 500.00
Training and Certification	Key Stewards and Volunteer Leadership	Kentucky Department of Agruculture Certification Fees	\$35.00 Per Each	10		\$ 250.00	\$ 250.00
Training and Certification	Key Stewards and Volunteer Leadership	Time and Travel to Certification exams	\$13.56 Per Each	20	\$ 271.20		\$ 271.20
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	Bluegrass Community and Technical College	Monitor 3 stations for nurtrients, pathogens and field parameters	\$135 Per Visit Per Site	9	\$ 1,215.00		\$ 1,215.00
Effectiveness Monitoring	Town Branch Lab, 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
Totals							
*COST SHARE % = 48.80%							

Stormwater Quality Projects Incentive Grant Program



FRIENDS OF WOLF RUN