to the GRANT AWARD AGREEMENT ATTACHMENT A

between Lexington-Fayette Urban County Government (LFUCG) and

GRANT PROGRAM: 2017 Stormwater Quality Projects Incentive Grant Program Class B (Education) Projects

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

PROJECT TEAM AND CONTACT INFORMATION

Grantee Organization: The University of Kentucky Research

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KY Organization #: 0052708 Lexington, KY 40506-0057

Primary Project Contact Rick Durham, Horticulture Ext. Specialist - UK

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Secondary Project Contact: Brad Lee, Water Quality Ext. Specialist - UK

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Project Team Members: Gregg Munshaw, Water Quality Ext. Specialist - UK Ashley Osborne, Water Quality Ext. Associate - UK

Jamie Dockery, Fayette County Horticulture Cooperative Ext. Agent

TARGET AUDIENCE

The target audience for this project is expected to reach approximately 210,000 to include Homeowners, Neighborhood Associations, Watershed groups, Master Gardeners, and Lawn and Landscape Management Businesses. The objectives for the audiences are broken into two (2) involvement. homeowner level. The second seeks lawn and landscape management business education and The first is a public element, which incorporates education and involvement at the

commercial). companies that manage primarily responsible for the excess nutrient loads from fertilizers that reach the streams in and duplexes with lawns, gardens and/or landscape beds in Lexington. The public element is the 2.35 persons occupying 89,122 single family dwellings, townhomes Fayette County. By engaging the business element we will target the lawn and landscape care Lexington lawn and landscaped properties (both These households are residential and

PROJECT PLAN ELEMENTS

This project focuses on Nutrient Load Reduction. To help protect the waters of the commonwealth, this project through public education and public involvement seeks to engage Lexington residence about nutrient management for plant growth through a "No P on My Lawn" applied in the city, thus reduce nutrient runoff and improve water quality. through a Green Certification program. Proper nutrient management will reduce loads being strategies that will reduce the phosphorus (and other nutrients) load to their clientele's properties to educate and involve Turfgrass and landscape management businesses in nutrient management correlated reduction in nitrogen and potassium fertilization as well. In addition, the project seeks The emphasis will be on phosphorus; however, the outcome could result in a of the

1) Public Education and Involvement (Home Owner Level): Educational material for the "No P ramifications of over fertilization, how to take a soil test, interpret the results, and identify on my Lawn" initiative at the home owner level will focus on ecological and aesthetic

appropriate plant nutrients utilizing the 5-R approach to nutrient management: right source, right rate, right time, right place, and right price.

- A The information will be presented in newspaper articles, educational brochures and fact sheets, news stories, and PowerPoint presentations at neighborhood and community events. All educational information will also be available on the UK Environmental & Natural Resource Issues web site (http://water.ca.uky.edu/)."
- ₿. The attendees of neighborhood association meetings, watershed group meetings, County CES office meetings, Arboretum meetings and Master Gardener programs will be trained on how to do the following:
- Obtain and submit a soil sample for nutrient analysis landscape bed from their lawn, garden,
- Interpret the soil test results
- . Identify an appropriate nutrient source/fertilizer to meet the plant growth needs
- excess nutrients in our streams Apply the nutrients at the correct rate and in a manner that will not contribute to
- efficiently utilized by the plant Apply the plant nutrient(s) at the correct time to be the most effectively and
- transport via stormwater runoff Apply the plant nutrient(s) in the correct place in the garden or landscape to minimize
- . of soil samples for home lawn, garden and landscapes submitted in 2017. home or commercial lawn, landscape or garden will be supplemented by this grant The soil test bags for this program will be identified. We expect to double the number For participants in this program, the soil test costs (\$7/each) from any Lexington
- application will be necessary. Organization expects 94% of the soil test results to indicate that no phosphorus
- 2) Education awareness of environmental stewardship on the part of the landscape professional educational materials at the "Business Level" to address many of the same topics as the fertilization and how incorporating soil testing into client services will impart an increased public elements adding an emphasis on the potential cost savings of reduced phosphorus for Lawn and Landscape Management Companies (Business Level):
- S Kentucky Certified Professional Turf Managers and will be authorized through an existing collaboration between UK Cooperative Extension and Kentucky Department of Agriculture program targeting lawn and landscape businesses. This program will focus on nutrient management in Fayette County and will be associated with the annual Central Kentucky Ornamental and Turfgrass Association Conference and the Kentucky Certified Professional Green Certification Program: In addition, Turf Managers Workshop. Certification will be offered as Level III - Green Certification to the project contains a "Green Certification"
- 4 (Table 1.) We will also link these meetings through a Facebook page and provide on-going association meetings. The timeline for these meetings is spelled out in the attached schedule newsletters, TV interviews, workshops at the Fayette County Cooperative Extension office, updates and promote interaction of attendees The Arboretum, management through several media outlets and workshops in an effort to reach homeowners: announcements, Workshops: stormwater Watershed Group meetings (e.g. Friends of Wolf Run), neighborhood newspaper articles, education incorporating Cooperative Extension Service and LFUCG discussions on nutrient

PROJECT SUSTAINABILITY

L) money saved will more than cover future soil test costs save money by not purchasing fertilizer that their lawn and garden does not need the educational component of this program will demonstrate to homeowners that they continue to be introduced and available to the public. include ongoing education and involvement beyond the end of the grant, so this resource can be trained to implement the educational program as part of their required CEUs. In addition, Long-term Component for Ongoing Education and Involvement: Fayette County Master Gardeners will The project plans to

The Green Certification program for lawn and landscape management businesses will be delivered on a recurring basis associated with the CKOT A and Kentucky Certified Professional Turf Managers Workshop. These programs will be marketed to the 104 MS4 registration and certification fees. communities through the Kentucky Stormwater Association. Expenses will be covered by

- 2 trained to implement the educational program as part of their required CEUs Personnel for Long-Term Implementation: Fayette County Master Gardeners will be
- 3) their Master Gardener active status. Delivering an education program will be one of the ways Master Gardeners can gain their volunteer requirements. An on-going objective of this project is to pass major responsibilities of public education regarding nutrient management to the Fayette County Master Gardeners as one of their signature programs. Ongoing Sources of Funding for Future Program Implementation beyond the Grant Period: The Fayette County Cooperative Extension Office coordinates a Master Gardener Program. These Master Gardeners have volunteer requirements annually in order to maintain

developing and implementing programs to help MS4 communities meet their regulatory The University of Kentucky Cooperative Extension Service indicates that urban water quality investment into MS4 communities and allows Extension Specialists to allocate time toward will be a part of their next 4-year strategic initiative. requirements in public education and public involvement. This demonstrates the UK CES

PROJECT SUCCESS MEASURES

The success of the project will be measured by the following quantifiable mechanisms:

- outlets The number of media announcements delivered and people reached through these media
- The number of Extension bulletins distributed
- The number of participants at the workshops
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- The number of soil samples submitted for testing
- The number of professional landscape companies attaining "Green Certification"

REPORTING REQUIREMENTS

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

- All handouts and educational material shall be provided to the LFUCG Grant Manager in hard copy and electronic (PDF) format with Request for Funds & Project Status Report and/or Project Final Report
- 2) Organization proposes a larger cost share beyond that required by the grant program. Budget shall reflect the 50.5% cost share (beyond the first \$2,500) offered in the application (Approximately \$33,202.00).

EQUIPMENT

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

GRANT PERIOD & PROJECT SCHEDULE

LFUCG 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 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 Manager prior to implementation.

TABLE 1 - PROJECT SCHEDULE

Spinio 2010	
Spring 2018	Prepare final report to LFUCG
	Prepare and submit research article regarding activities and results of this program
	Public educational events at Fayette Co. CES, Arboretum
	MGV adopt soil testing education as on-going project
	MGV finish educational programs with HOA
Winter 2018	Review activity to date and evaluations, Progress update to LFUCG
	Educational resources submitted for recognition to professional societies
	Green Certification workshop with KY Certified Turf Managers and/or CKYOTA
	MGV challenged to take ownership of public education/soil testing program
	Public educational events at Fayette Co. CES, Arboretum
	MGV continue educational/soil testing meetings with HOA
Fall ZU1/	The state and the state of the
1	Poview activity to date and evaluations Progress undate to IEIICG
	Adopt and develop educational materials for Turf and Landscape Green Certification
	Public educational events at Favette Co. CES, Arboretum
	MGV continue educational/soil testing meetings with HOA
	regional); newsletters (CES, Arboretum, LFUCG)
	Continuo promotional activitios proposially pour paper (Harald Loader and county
Summer 2017	Progress update to LFUCG
	באמושמנוטום, וומחר וובכטכע כוומווקכם נס בעשימנוטוומו וושנכוומום
	Review first rounds of soil testing meetings, feedback/questions from MGV, review program evaluations make needed changes to educational materials
	Continue promotional activities
	Public educational event at Fayette Co. CES and watershed groups
	MGV begin holding educational/soil testing meetings with HOA
Spring 2017	Progress update to LFUCG
	MGV scheduling meetings with Home Owner Associations (HOA) for summer and later
	First public educational events/soil testing (Fayette Co. CES, Arboretum)
d	Begin promotional activities (newspaper, radio, television)
	Train MGV
	Populate web site with educational materials, develop reporting mechanism for MGV
	materials
	Finalize promotional and educational materials
Winter 2017	riogress update to LFOCG
	Draft promotional materials (newspaper articles, radio scripts, filers, FAQ for MGV
	Order Tools for soil testing
	Identify/develop needed graphics, photos, evaluation instruments
	Outline needed training and educational resources for public education/outreach
	Recruit Master Gardener Volunteers (MGV)
Anticipated Date	Activity

PROJECT BUDGET – GRANT ELIGIBLE EXPENSES & ORGANIZATION COST SHARE Table 2 lists the Eligible Expenses for this project. Only properly invoiced items shall be reimbursed with grant monies or counted toward the Organization's cost share.

Any work performed on this project prior to grant award by Urban County Council and Notice to Proceed from the LFUCG Grant Administrator is not an eligible expense and shall not be reimbursed or counted toward the cost share with the following exception: None.

TABLE 2 ELIGIBLE EXPENSES

	49.5%		50.5%	for grants	are required	> 50%	MUST BE > 50% 18 MUST BE > 50% 10 * Note: Organization chare must be 50% after the first \$2 500 00. No cost chare required for grants < \$2 50.59	tion chare m	* Note: Organia	18
	SHARE		SHARE		50.53% OK	R FIRST \$2,500 =	COST SHARE % AFTER FIRST \$2,500 =			16 17
\$ 68,202.00	0.00	*	\$ 33,202.00		TOTAL PROJECT BUDGET:	101				15
\$ 5,833.00	5,833.00	\$	\$	1 \$	rs	\$ 5,833.00 LS	Indirect costs (20%)		14 Indirect costs	14
\$ 10,508.00		<	\$ 10,508.00	1 \$	ıs	\$ 10,508.00	Indirect costs (Cost of project, 11/5%)		13 Indirect costs	13
\$ 1,250.00	1,250.00 \$	45	٠	1250 \$	per handout	\$ 1.00	Printed materials for workshops		12 Materials	12
\$ 600.00	600.00	45	,	6	per probe	\$ 100.00	Soil Sample probes for sample collection		9 Supplies	9
\$ 9,100.00	9,100.00	45	,	1300 \$	7.00 per test	\$ 7.00	Soil Sample Test		7 Supplies	7
\$ 3,918.00	3,918.00	\$	\$	300 \$	per hour	\$ 13.06	Undergradua Student to assist with soil te Student sampling after public events	Undergradua te Student	6 Personnel Hours	6
\$ 14,298.17	14,298.17	45	,	404 \$	per hour	\$ 35.39	Promostions and Material Development	Ashley Osborne	5 Personnel Hours	5
\$ 6,253.33	0.33	45	6,253.00	109 \$	per hour	\$ 57.37	Personnel hours	Gregg Munshaw	nel	4
\$ 6,830.50	0.50	\$	6,830.00	95	per hour	\$ 71.90	Personnel hours	Brad Lee	Personnel Hours	3
\$ 9,611.00		⟨>	9,611.00	140 \$	per hour	\$ 68.65	Rick Durham Personnel hours	Rick Durham	Personnel Hours	2
							nwe	:: No P in my L	1 Project Element: No P in my Lawn	1
Coar Expense	Grant	85	Organization	Quantity		Onit Frice	кет	Participants	Expense	
Total Evnance	4		Employ by	O Constitution		1.1.0.1.	I			