

GRANT AWARD AGREEMENT

Fiscal Year 2023 Class B Education Incentive Grant Program

THIS AGREEMENT, made and entered into on the 2nd day of May, 2023 by and between the **LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT (LFUCG)**, 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 **THE LIVING ARTS AND SCIENCE CENTER, INC.**, 362 N. MARTIN LUTHER KING BLVD., LEXINGTON, KENTUCKY 40508 (hereinafter "Grantee").

WITNESSETH:

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

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

WHEREAS, any such improvements funded by the Government shall benefit the public through installed improvements and/or educational programming;

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

- (1) Government hereby grants the Grantee the sum of **\$35,296.00** (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 shall provide equal opportunity in employment for all qualified persons; prohibit discrimination in employment because of race, color, creed, national origin, sex, age between 40 and 70 or disability; promote equal employment through a positive, continuing program of equal employment; and cause each of its subcontractors to do so. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- (3) The Grantee agrees to match the Grant above the first \$3,000.00, with contributions, labor and other services equal to or greater than 20% of the total project costs.
- (4) The Grantee agrees to use the Grant only for the activities set forth in Attachment A.

- (5) The Grantee agrees to perform periodic reporting as detailed in Paragraph (6) herein below, and produce a Project Final Report within 30 calendar days of the completion of the project elements in digital and hard copy following a standardized format to be provided by the Government summarizing all work completed and detailing the total expenditures, grant reimbursements, and match.
- (6) The Grant to the Grantee shall be disbursed in the following manner:
- (a) The Grantee shall submit at least once every 3 months, if not specified otherwise in Attachment A, a Request for Funds to the Government's Grant Manager designated by the Director of the Division of Water Quality for the project. Each 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 these 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. For project specific personnel costs and stipends, documentation of all billed hours shall include copies of employee timesheets, hourly payroll rate, and description of work performed for hours billed.
 - (b) Each Request for Funds shall be accompanied by a Project Status Report 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, copies of the class rosters or sign-in sheets documenting the number of attendees and evaluation forms shall be provided.
 - (c) 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 donated project specific personnel costs and stipends, documentation of all billed hours shall include copies of employee timesheets, hourly payroll rate, and description of work performed for hours donated. For in-kind volunteer hours, this shall include sign-in sheets describing the events with signatures, name, address, time in, time out, 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 total miles driven.
 - (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 Grant Manager finds the Grantee's Request for Funds is in compliance with the terms of this Agreement and the guidelines of the Stormwater Quality Projects Incentive Grant Program and that the activity progress and management program of the Grantee satisfy the terms of the grant award, he or she shall approve the Request for Funds and forward it to the Division of Accounting for payment.
 - (e) Should the Government's Incentive Grant 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 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 (11) 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 cal-

endar days or, if acceptable, forward approval to the Division of Accounting for payment.

- (7) 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 (11) herein below.
- (8) 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 12 months. The Grantee agrees to obtain written approval from the Government's Grant Manager and Program Administrator for any time extensions beyond the schedule. Failure to gain written approval prior to making changes may lead to termination of the Agreement for cause pursuant to Paragraph (11) herein below.
- (9) 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.
- (10) The Grantee asserts that it 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 Housing 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 Grant Manager and 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 (11) herein below.
- (11) 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, agreements, or stipulations of this Agreement including any attachment thereof, 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.
- (12) This Agreement may not be modified except by written agreement of the Government and the Grantee.
- (13) The Grantee agrees to comply with all applicable local, state, and federal rules, regulations, ordinances, and laws in implementation of the project.
- (14) The Grantee agrees to allow the Government access to perform monitoring of the project elements for compliance with this Agreement.

- (15) In any written or oral 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.
- (16) The Grantee agrees to allow the Government to publicize the Grantee's project through the Government's website and other media.
- (17) 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.
- (18) For any project which includes the installation of permanent capital infrastructure listed in Attachment A, the Grantee agrees that the Government is authorized to erect and maintain permanent signage at the location of the permanent capital infrastructure, referencing the Water Quality Management Fee and the Stormwater Quality Projects Incentive Grant Program as a source of funding for such permanent capital infrastructure. In the event that permanent signage is installed by the Government, such signage shall not be removed except upon written approval by the Government. Provided, however, that nothing herein shall require the installation of signage by the Government nor prohibit the Government from removing any signage so installed.
- (19) The Grantee agrees to prepare class rosters or sign-in sheets and provide evaluation forms to the attendees for any educational event funded by the Grant.
- (20) Equipment purchased or stormwater control facilities constructed by the Grantee with the Grant for use on this project will remain in service and maintained by the Grantee or its members for at least the Service Life listed in the Inspection, Operation, and Maintenance Plan developed for each facility, and per the terms listed in Attachment A. Equipment purchased by the Grantee with the Grant for use on this project will remain the property of the Grantee unless otherwise noted in Attachment A. For capital infrastructure, the Grantee further accepts and agrees to enter into the "Agreement to Maintain Stormwater Control Facilities Funded by an LFUCG Class B Stormwater Quality Projects Education Incentive Grant" attached hereto as Attachment B and which is incorporated herein by reference as if fully set out herein.
- (21) The Government assumes no responsibility whatsoever in the Grantee's project activities. Grantee shall, to the extent allowed by law, defend, indemnify, and hold harmless Government from and against all liability, claims, 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, in connection with the activities carried out pursuant to this Agreement, the Grant award, or the Stormwater Quality Projects Incentive Grant Program.
- (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'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:

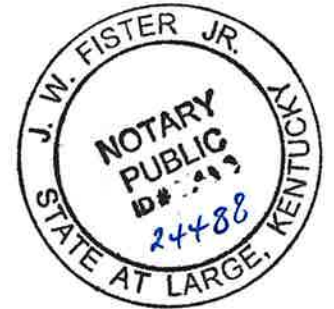
MaKenzie Stock
deputy CLERK, URBAN COUNTY COUNCIL

Grantee Organization: THE LIVING ARTS AND SCIENCE CENTER, INC.
362 N. MARTIN LUTHER KING BLVD.
LEXINGTON, KY 40508

BY: [Signature]
NAME: Gene Guinn
TITLE: Interim Executive Director

The foregoing Agreement was subscribed, sworn to and acknowledged before me by GENE GUINN, as the duly authorized representative for and on behalf of THE LIVING ARTS AND SCIENCE CENTER INC., on this the 10 day of MARCH, 2023.
My commission expires: 3-27-25.

[Signature]
NOTARY PUBLIC
Ky NP
24488



ATTACHMENT A
to the GRANT AWARD AGREEMENT
between Lexington-Fayette Urban County Government (LFUCG) and
The Living Arts and Science Center, Inc. (LASC)

GRANT PROGRAM

**2023 Stormwater Quality Projects Incentive Grant Program
Class B Education 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: The Living Arts and Science Center, Inc. (LASC)
362 N. Martin Luther King Boulevard
Lexington, KY 40508
KY Organization #0031623



Primary Project Contact: Gene Guinn
859-252-5222 (phone)
gene@mgcandc.com (email)

Secondary Project Contact: Kathryn Wallingford
859-252-5222 (phone)
kwallingford@lasclex.org (email)

Project Team Members: Kathryn Wallingford, Project Manager, STEM Discovery Educator
Laurie Preston, LASC's Development Director
Gene Guinn, Interim Executive Director

Major Stakeholders: Administrators, teachers, students, and students' families at Lexington Traditional Magnet School and other Title I schools throughout Lexington, and residents of the Martin Luther King and East End neighborhoods.

In addition, LASC's staff regularly collaborates with a wide range of scientists, wildlife experts, and environmental educators in Central Kentucky, and will continue these collaborations in the implementation of the proposed programs and activities.

PROJECT PLAN ELEMENTS

A main goal for the FY23 project is to reach diverse audiences with educational programs about erosion and ecological conservation, particularly about the ways that different means of erosion control BMPs help with water conservation, water quality, and water cycles and thereby help sustain Kentucky wildlife.

LASC will build on our experience with environmental education, develop new ways of engaging children and adults, and expand opportunities for people of all ages to create healthier ecosystems and greener communities. Because of the number of people that we serve, our project will have a significant impact on K-12 education, the North Martin Luther King and East End neighborhoods, and neighborhoods across the city of Lexington.

Each of the following project programming, exhibits, and themes are included as the project's major elements of focusing on water quality.

- Field trips.** We will continue to offer field trips with presentations inside LASC and in the green space with an estimation of receiving 6,500 students and teachers. The stormwater interactive exhibit will be an integral part of our Discovery Gallery and our *Kentucky: Wild and Wonderful* exhibit. We will provide hands-on activities to the students that help them understand different factors of erosion and the means for erosion control. For instance, we will allow them to fill a small-scale gabion structure with rocks and illustrate how such structures mitigate the speed of stormwater runoff and allow for water

dispersion that more effectively irrigates the land. LASC will also have portions of erosion blankets and coir logs on display to help illustrate other means of erosion control. Moreover, LASC will have a display of the different root structures of native Kentucky grasses and wildflowers contrasted with the root structures of non-native, invasive species like crown vetch. The field trip curriculum will also extend to LASC's rain garden, native Kentucky plants and pollinators, and aquatic animal exhibits. All of these educational programming activities and displays will, of course, be available to any LASC visitor.

Students and families will also have opportunities to participate in field trips to sites in Fayette County, including McConnell Springs, Masterson Station for the annual Reforest the Bluegrass event, the Arboretum, and other sites to be determined. At sites like McConnell Springs, LASC will bring attention to the way that human disturbance of the landscape, whether through foot traffic or even the erection of fences and displays, not only causes erosion but also allows the further proliferation of non-native, invasive species. The field trips will build on our success with field trips for the Science Explorers after-school program. They will reinforce the learning objectives of the after-school ecology program while also directly engaging students and family members in conservation and restoration efforts in Lexington.

- b) **Kentucky: Wild and Wonderful:** As stated above, LFUCG's education grant will allow us to augment and round out our *Kentucky: Wild and Wonderful* interactive exhibits. The exhibit will focus on Kentucky's native wildlife, from turtles and field mice to trees and shrubs to wildflowers and sedges.

The programming will feature the biological and ecological interconnectedness of the state's flora and fauna. LASC has several native animals on its campus and will discuss how each animal inhabits their relative native spaces. Our non-native "animal ambassadors," on the other hand, will help us explore other habitats and thereby contrast Kentucky's ecosystems with those around the world.

This grant will allow us to transition very easily from native species to the life-giving water that sustains them. LASC will feature the ways in which native vegetation promotes soil health as well as helps maintain cleaner waterways by mitigating soil erosion. This will help us extend our exhibit, in particular, to the ways in which non-native species negatively impact Kentucky's soil and water by creating a mono-culture of vegetation whose root structures often fail to help keep the soil nutrient-rich and also shade out native species, thus leaving what amounts to bare earth beneath. These phenomena not only affect the foraging possibilities for animals but also create a situation in which rainwater fails to properly irrigate the soil and run quickly to its water outlets and thus causing erosion of the land and shorelines and streambanks.

- c) **Science Explorers:** For over 13 years, the LASC's award-winning after-school Science Explorers program has provided 12 weeks of hands-on and creative science activities in Fayette County's most challenged elementary schools. Each year over 240 students, as well as their parents, siblings, and teachers, benefit from the Science Explorers program. LASC's staff changes the curriculum each year and incorporates different information and new perspectives on water quality and conservation into the curriculum.

The curriculum will reinforce Kentucky's Next Generation Science Standards (NGSS) for upper elementary and middle school students and supports academic achievement through live native animal encounters, dedicated instruction on topics like plant identification, and exciting hands-on activities. It addresses NGSS concepts like biomes, adaptations, structure and function, biodiversity, keystone species, invasive species, and interdependency. With an education project grant, LASC will provide 20 free *Kentucky: Wild and Wonderful* one-hour sessions in Title I schools in Fayette County for a total of at least 500 K-12 students. Sessions will be offered throughout the 2022-23 school year.

- d) **Eco Workshops.** With the support of a Stormwater education grant, LASC will continue a workshop series for families with an emphasis on adult education. The "Eco Workshops" will provide adults access to education, resources, and tools needed to improve green space and encourage the implementation of BMPs within our community. LASC will invite experienced, topic experts to discuss, demonstrate, and lead workshops for participants.

Held in conjunction with our Discovery Saturdays, the workshops, along with hands-on activities concerning erosion and erosion control, may feature eco-driven projects such as rain barrel assembly, decoration, and care; tips for creating and maintaining urban gardens and habitats; and tree and plant identification. Organizational partners will include Bluegrass Greensource, the Kentucky Division of Air Quality, and the Kentucky Environmental Educators Association.

A total of three to five workshops will be offered during FY 2022-23 for a total of about 50 adult participants. The target audiences for the workshops will be residents of the Martin Luther King and East End neighborhoods, who will participate in the workshops at no cost. To encourage participation, promotional material will be directly distributed to community centers.

- e) **Erosion Control Technologies:** One of the main features LASC will include in our gallery is different erosion control technologies, some of which visitors probably see on a daily basis when motoring around town or on the highway. In particular, LASC will feature the biodegradable mesh erosion blankets that are often seen matting the slopes next to roadways. LASC will discuss the benefits of such blankets, especially when native seeds are broadcast beneath them, and how such technologies are more effective at erosion control than simple rocks aligning a hillside. LASC will also feature an example of a coir log, a technology that is often used on streambanks to at once shore up eroded coastlines and also promote shoreline vegetation. Finally, LASC will feature the caged gabion technology that is often used when slopes are too steep to promote seeding after vegetation and how such structures help slow down and disperse fast-running water. LASC will have examples of all of these technologies in the Discovery Gallery.

Furthermore, LASC will have an interactive test "slope ground" that will allow students to watch them in action, *e.g.*, a small gabion structure that students can fill with rocks and then see how running water interacts with that structure in contrast to a bare concrete slope.

- f) **Kentucky Watersheds and Controlled Burning:** As a part of the installation, LASC will display the details of the importance of controlled burns to watershed health and therefore the water quality of Kentucky's streams and rivers. This part of the exhibit will wed nicely with *Kentucky: Wild and Wonderful* and detail the importance of prescribed fires to Kentucky's vegetation and wildlife habitats. LASC will illustrate how controlled burns help promote diverse native plant life by clearing the understory of leaf litter and therefore promoting seed germination and how burns help mitigate the spread of non-native vegetation. Encouraging such plant diversity helps sustain Kentucky's diverse wildlife as it offers different food and pollen sources. Moreover, the reduction of understory litter also helps to limit the amount of sedimentation that flows to Kentucky's waterways.
- g) **Plant Identification:** Given our emphasis on native and non-native flora and the ways they affect soil and water quality / quantity, plant identification will be an integral part of our *Kentucky: Wild and Wonderful* programming. LASC will not only teach students and visitors about the elements of plant identification within the exhibit space but also give them the opportunity to visit our own Rain Garden to put those practices to use. LASC will have students identify native and non-native species on the grounds and talk about the BMPs of eradicating non-native species. These practices will also be put into use on the field trips to McConnell Springs, the Arboretum, and other sites to be determined.
- h) **Urban Ecology:** Erosion due to urban development will also be focus of our installation. LASC will detail the different ways urban soil erosion and runoff negatively affects waterways with excessive sedimentation and pollutants. LASC will explore the different technologies (including those above) and strategies that can be used to control these types of runoff, including the permeable pavers that were installed in LASC's parking lot with the help of a former Stormwater Infrastructure grant. The programming will include a hands-on exhibit that displays the ways that simply slowing down runoff via silt barriers or proper gradation positively affects water quantity and quality.
- i) **Distribution of educational materials:** LASC provides brochures and other educational materials to visitors who support further exploration of environmental issues and greater

participation in BMPs, and throughout 2022 and 2023, we will continue to print and distribute materials to thousands of visitors each year.

- j) **Educational Displays:** In LASC's facility, there are displays featuring 10 species of animals in aquatic habitats as well as six species in dry habitats. In addition, as noted above, our grounds feature educational displays with an emphasis on stormwater quantity and quality management. With the education project grant, LASC will continue to maintain aquatic animal displays and educate our visitors about water quality through those displays. In addition, LASC will continue to maintain our urban green space and provide information about permeable pavers, rain gardens, our rain harvesting system, native plants, and other features of the green spaces. With the education project grant, we will update interpretive signage for displays and give presentations related to displays for field trips, after-school programs, and community events. LASC also plans to add signage to educate the public about LASC's solar panels, which were added to our campus in August 2021.

Prior to the COVID pandemic, more than 40,000 visitors enjoyed LASC's facility and green space and learned from the displays. We are continually working to rebuild and reach this number again within the next few years. One addition to our grounds in 2022 will be a Reading Trail. As children and adults meander through our rain and native flower gardens, they can read a children's book about water and environment conservation. The pages will be dispersed on eight to ten signs that will also feature a variety of activities to engage the readers with their surroundings. The books will change every quarter to provide a new story and set of activities.

- k) **Aquatic Educational Displays:** The LASC features engaging and interactive exhibits throughout its building and grounds each year. The semi-permanent displays incorporate a wide range of educational content for visitors to the LASC for all of our programming. As part of this project, the LASC will continue its efforts to educate about water quality topics through live aquatic animal displays in the building, by adding new educational content to displays and developing teacher talks for the displays. The LASC's outdoor displays include rain gardens, our rain harvesting system, and a rainwater-supported waterfall. Interpretive signage and on-site brochures provide information to visitors about these best practice initiatives for self-guided tours and understanding the benefits of rain gardens and rain collection barrels and cisterns, as well as information about native plants.

TARGET AUDIENCE

LASC reaches a wide range of groups and people of all ages. With the proposed project, LASC aims to expand engagement with K-12 students and students' parents and guardians, residents of the North Martin Luther King and East End neighborhoods, and the general public.

1. **Audience for field trips.** The target audiences are students in grades K-8 in schools across the region and their teachers. We aim to support and enrich students' education and reinforce NGSS instruction by incorporating a variety of activities into field trip programs. LASC expects to have a total of 6,500 students participating in field trips in FY 2022-23.
2. **Audiences for the outreach and summer camp programs.** The target audiences are students in grades 3-8 in Title I schools, and the student's parents, guardians, and siblings. Through LASC's emphasis on children who have fewer opportunities for enrichment and engaging children in hands-on environmental education, LASC is helping to prepare the next generation to be conscientious about the personal choices they make in terms of environmental impact. LASC's educational programs can have a lasting effect on the students, as children learn about the issues and become life-long advocates for practices and strategies that create sustainable communities. LASC will encourage our students to discuss these topics with their parents and siblings and encourage their participation in BMPs.

LASC has chosen to focus on Title I schools because, in addition to having a large percentage of students from low-income households, the schools have not been meeting expectations on state proficiency assessments. By providing hands-on learning activities both in and out of school to students in the schools, LASC generates enthusiasm for science and environmental education and reinforces the instruction that students receive in

classrooms. Furthermore, the programs provide opportunities for adult family members to learn with their students, such as family celebration nights at LASC, bi-lingual fliers sent home with students and family, and family activities like participation in the city of Lexington's "Reforest the Bluegrass" event. LASC believes these activities can have a lasting positive effect on student's academic progress.

For the *Kentucky: Wild and Wonderful* outreach, LASC will reach about 500 Title 1 elementary and middle school students as well as the students' families. LASC will offer a total of 20 one-hour-long sessions, and each session will have an audience of about 25 students.

3. **Audience for the Eco Workshops.** LASC's goal is to reach a total of 50 adults who reside in the Martin Luther King neighborhood, East End neighborhood, and other neighborhoods near downtown Lexington with the workshop series. LASC is offering this workshop series to provide adults in Kentucky with better access to environmental education and management tools, particularly about erosion and erosion control. These workshops are designed to be relevant and provide applicable information for interested participants. There is a growing need for environmental education and BMPs to help improve and sustain healthier urban communities. LASC, along with support from community partners and community members, will meet this need through the workshop series.
4. **Audiences for educational displays and related materials.** In addition to receiving visitors for pre-scheduled events, LASC is free and typically open to the public. All visitors have access to and benefit from our indoor and outdoor educational displays and have the option of taking home with them additional educational materials about water quality and conservation. Through displays and educational materials, we expose the public numerous times to concepts and simple steps for managing and improving stormwater quality and inspire large numbers of people across Lexington to work together toward conserving non-renewable resources and building healthy, sustainable communities.

The urban educational green space also benefits residents in the surrounding neighborhoods. Like many communities, the neighborhoods around LASC are undergoing a great deal of development and urban renewal. Because of these changes, the neighborhoods are struggling with additional stormwater runoff and therefore erosion even of their backyards. With LASC's green space, we demonstrate BMPs, encourage the adoption of BMPs, and provide much-needed green space for neighborhood residents.

PROJECT SUSTAINABILITY

This project has a long-term component for ongoing education and public involvement. LASC has developed and expanded the environmental education programs and increased the audiences for these programs substantially. LASC will continue to expand the number of partners for implementing these programs. With the additional funding, LASC will continue to build on its experience and lay a foundation for the ongoing development of water quality educational programs.

- 1) LASC will establish programs that will be maintained beyond the timeframe, including *Kentucky: Wild and Wonderful* outreach program, the after-school ecology programming, and the Eco Workshop series. These programs build on the success of existing programs and will contribute to the ongoing growth of LASC's programs and staff.

LASC will continue to produce educational materials that we will use after the grant period ends. Materials include but are not limited to: lesson plans, activity guides, handouts, and project materials for participants in field trips, the after-school ecology program, and the Eco Workshop series; and brochures, cards, bookmarks, stickers, and other water quality educational materials that we provide for community events and presentations about animals and native flora in our facility and BMPs on our grounds.

The FY 2023 education grant will help maintain the educational displays in our facility. As needed, new aquariums will be purchased for the native animals; native plants will be introduced into aquarium displays; and fresh, engaging signage for the animals will be created. The outdoor rain garden and native flowers will continue to be refurbished and

preserved, as will the new Reading Trail. All of the foregoing will benefit school groups and other visitors for years to come.

- 2) It is anticipated that the curriculum will be taught by the teachers of LASC as part of their annual lessons.

Kathryn Wallingford was hired as a part-time STEM Discovery Educator in the fall of 2021 and is LASC's lead environmental educator. She has jumped right into LASC programming and is planning a new and exciting curriculum around our *Kentucky: Wild and Wonderful* exhibit and other ecological conservation programming. Ms. Wallingford is committed to developing and growing LASC's programs that address water management and quality over the next several years.

Sarah Newman, our dedicated part-time animal care specialist for Animal Ambassadors, handles the feeding and oversight of the animals and ensures their enclosures allow for a high quality of life.

- 3) LASC currently receives support for science educational initiatives from the LG&E and KU Foundation, Toyota Manufacturing of Kentucky, and the Children's Charities of the Bluegrass. In addition, LASC receives earned income from tuition paid for classes and summer camps and an operating support grant from LexArts. LASC will continue to seek out opportunities for additional sponsorships and grants, and we will continue to expand sources of funding for environmental education programs and other science educational programs.

PROJECT SUCCESS MEASURES

LASC will track the number of participants in each program throughout FY 2022-23, as well as record observations of audience engagement for each program and collect completed evaluation forms from teen and adult participants, which allow us to quantify the participants' levels of satisfaction. Data from 2022-23 will be compared with data from previous years. Measures of success will include:

- 1) Reaching our targets for participation in new or revamped programs, including our Eco Workshops, Discovery Saturdays, and *Kentucky: Wild and Wonderful*;
- 2) Maintaining the same level of participation in programs that are repeated every year, including after-school programs and summer camps;
- 3) Increasing the numbers of drop-in visitors who see and learn from educational displays such as the new Reading Trail throughout the year;
- 4) Observing that participants are consistently engaged in programs and achieving the learning objectives for each program; and
- 5) Ensuring that participants continue to indicate high levels of satisfaction with programs on evaluation forms.

REPORTING REQUIREMENTS

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

- 1) All handouts and educational materials shall be provided to the LFUCG Grant Manager in hard copy and electronic (PDF) format with Requests for Funds & Project Status Reports and/or the Project Final Report.
- 2) Photographs and records documenting events, programs, training, workshops, et cetera shall be provided to the LFUCG Grant Manager in electronic format with the Project Final Report.
- 3) Sign-in sheets for Professional Development events shall be maintained and provided to the LFUCG Grant Manager upon request. Participation attendance counts shall be maintained and provided to the LFUCG Grant Manager, with reporting for all other events.
- 4) Materials associated with printed teacher lesson plans and best practices for implementation within their classrooms from the field trips or other facilitated educational programs shall be provided to the LFUCG Grant Manager in hard copy and electronic (PDF) format with Requests for Funds & Project Status Reports and / or the Project Final Report.

- 5) Copies of program evaluations collected in association with the facilitated educational programs, outreach programs, public participation, and field trips shall be provided to the LFUCG Grant Manager in hard copy or electronic (PDF) format with the Project Final Report.
- 6) All evaluations, especially those listed under the Project Success Measures, shall be provided to the LFUCG Grant Manager with Requests for Funds & Project Status Reports and/or the Project Final Report.
- 7) All attachments to Requests for Funds & Project Status Reports shall reference the associated line from Table 2 – Eligible Expenses.

ADDITIONAL STIPULATIONS

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

- 1) Applicant shall provide rate of pay records for the personnel listed in the project budget to the Division of Water Quality prior to drafting of the Grant Award Agreement.
- 2) Permanent signage and display designs to be approved by the Grant Manager or Administrator prior to production.
- 3) Both electronic and hard copies of all materials are to be provided to LFUCG, for its use, as part of the grant deliverables.
- 4) Organization proposes a larger cost share beyond that required by the grant program. Budget shall reflect the 33.4% cost share offered in the application (approximately \$16,210.00).
- 5) **Applicant to utilize awarded grant funding exclusively in water quality specific program elements, e.g. erosion-themed projects, display installations, and workshops; interactive stormwater exhibits; and water quality-themed events such as Water Week, Tree Week, field trips, and camps.**

EQUIPMENT

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

PERMANENT FACILITIES / INFRASTRUCTURE

Monitoring: The Organization agrees to allow LFUCG staff access to the property to monitor the installed features for compliance with this agreement.

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. 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 Grant Award Agreement and Notice to Proceed (NTP)	Anticipated February 2023
Develop Curriculum and plan programs and activities	Continuously
Maintain animal exhibits and distribute animal trading cards to patrons. Highlight ambassadors to field trip visitors and patrons.	Continuously
Promote programs via digital and printed materials	Continuously
Maintain educational displays on LASC's facility and green space	Continuously
Print and distribute materials to visitors	Continuously
Offer ecology and water-related programming at 6 Discovery Saturdays throughout the year	Ongoing
Offer Eco Workshop; install additional plants in green space	Summer 2023
Host Bluegrass Greensource Green Fest and offer programs on energy and urban rain gardens.	June 2023
Offer Wildlife and Water summer camps	June – August 2023
Launch Kentucky: Wild and Wonderful exhibit in Discovery Gallery and host Water is Life Day	September 2023
Resume hosting field trips and offering Kentucky Wildlife and Water outreach programs; resume after-school ecology program	September 2023
Participate in Lexington Tree Week	October 2023
Offer Science Explorers after-school program	March 2023 – May 2024
End after-school ecology programs for the fall semester	November 2023
Participate in Lexington Water Week	March 2024
Offer ecology camp over Spring Break	March 2024
Continue to offer Science Explorers after-school program	March – May 2024
Participate in Reforest the Bluegrass and bring Science Explorers	Spring 2024
Provide Project Final Report to LFUCG	May 2024

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 the 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.

The Grant is a not-to-exceed amount, and any cost overruns are the responsibility of the Grantee. Donated professional service hours shall be valued at the Median Hourly Wage for the service provided as published by 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

	Activities	Type of Expense	Participants	Item	Unit Price	Quantity	Funded by Organization	Funded by Grant	Total Expense	
1 Project Element: Kentucky Wild and Wonderful Outreach, After-School Ecology Programs, Eco Workshops, Science Explores, Water is Life Day and other programs										
1	Planning, curriculum development and instruction for all programs	Personnel Hours	Kathryn Wallingford	Hours at current payroll rate	\$ 17.44 per hour	900	\$ 2,000.00	\$ 13,696.00	\$ 15,696.00	
2	Assistant Teacher for instruction or after-school ecology programs, outreach sessions, and special	Personnel Hours	Delaney Thomas	Hours at current payroll rate	\$ 15.00 per hour	300	\$ 4,500.00		\$ 4,500.00	
3	Design of promotional materials and website and promotion of all	Personnel Hours	Laurie Preston	Hours at current payroll rate	\$ 25.00 per hour	80	\$ 2,000.00		\$ 2,000.00	
4	programs via social media									
5	Printing of program schedules and other promotional materials	Materials	859 Print, GOTPrint and others	Printing of materials promoting exhibits, field trips, workshops, camps and other programs	varies per printing	5000	\$ 2,400.00		\$ 2,400.00	
6	Educational materials for all programs	Materials	LASC	Include but not limited to: notebooks, pencils, pocket microscopes, owl pellets, seeds, soil and water testing kits, compost bins, rain barrels, paint, bee house kits, and bat house	varies per participant	950	\$ -	\$ 2,400.00	\$ 2,400.00	
7	Presentations for workshops, Water is life Day and other community events	Fees		Presentations by wildlife and habitat experts	varies per presenter	5	\$ -	\$ 1,800.00	\$ 1,800.00	
8	After-school programs	Food and drinks	local supermarkets		varies per snack	400	\$ -	\$ 600.00	\$ 600.00	
9	Field Trips to McConnell Springs, Masterson Station, and other sites for after-school programs	Transportation	Miller Transportation	Field trips to McConnell Springs for so students and family members per trip	\$ 250.00 per trip	5	\$ -	\$ 1,250.00	\$ 1,250.00	
10	Wildlife and Water outreach programs	Fees	LASC staff	outreach programs provided to 600 students	\$ 190.00 per programs	20		\$ 3,800.00	\$ 3,800.00	
11	Assistance with all programs	Volunteer hours	Volunteer	Volunteer hours for all programs	\$ 7.25 per hour	200	\$ 1,450.00		\$ 1,450.00	
12 Project Element: Maintenance and development of educational displays in LASC's facility and on our grounds featuring native animals, plants, and aquatic habitats										
13	Animal care, green space care, and development of displays and educational materials	Personnel Hours	Sarah Newman	Hours at current payroll rate	\$ 15.00 per hour	624	\$ 3,360.00	\$ 6,000.00	\$ 9,360.00	
14	Maintenance of animal displays	Supplies	Incredipet and others	Food for animals, plants and other items for habitats	varies per animal	8	\$ -	\$ 1,500.00	\$ 1,500.00	
15	Signage for exhibit and display space	Supplies			varies per display	8	\$ -	\$ 800.00	\$ 800.00	
16	Maintenance of educational displays in the urban green space, i.e. Reading Trail, native trees, etc.	Supplies and Services			varies per space	3	\$ 500.00	\$ 2,000.00	\$ 2,500.00	
17	Installation of native plants in the urban green space and for pollinator garden	Supplies	Michlers and others	Plants for various garden spaces on LASC grounds	varies per space	50		\$ 250.00	\$ 250.00	
18	Printing of educational materials to accompany displays	Materials	LASC	educational materials (such as Eco Tips bookmarks and animal trading cards)	varies per printing	20000		\$ 1,200.00	\$ 1,200.00	
19									\$ -	
20									\$ -	
TOTAL PROJECT BUDGET:							\$ 16,210.00	\$ 35,296.00	\$ 51,506.00	
21							ORGANIZATION SHARE	GRANT SHARE		
22							33.4%	60.300%		
23	MATCH % AFTER FIRST \$3,000 = 33.42% OK									
24	MUST BE > 20%									

FIGURE 1 – AN EXAMPLE OF SIGNAGE REGARDING BMPs IN THE LASC EDUCATIONAL GREEN SPACE (FROM APPLICATION)



FIGURE 2 – ANOTHER EXAMPLE OF SIGNAGE REGARDING BMPS IN THE LASC EDUCATIONAL GREEN SPACE (FROM APPLICATION)



FIGURE 2 – AMANDA WHEELER (BELOW) ILLUSTRATES HOW WATER FLOWS OVER AND INTO DIFFERENT TOPOGRAPHIES AS PART OF WATER IS LIFE DAY AT LASC (FROM APPLICATION)



Stormwater Quality Projects Incentive Grant Program

