

Proposal for Consulting Services for Environmental Public Education Program

Response to LEUCO
RFP #23-2015

BLUEGRASS
GREENSOURCE

RECYCLABLE ITEMS ONLY

Contact:
Amy Sonner
Executive Director
859-266-1572
amy@bgGreensource.org

AFFIDAVIT

Comes the Affiant, Amy Sohner, and after being first duly sworn, states under penalty of perjury as follows:

1. His/her name is Amy Sohner and he/she is the individual submitting the proposal or is the authorized representative of Bluegrass Greensource, the entity submitting the proposal (hereinafter referred to as "Proposer").

2. Proposer will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the proposal is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Proposer will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Proposer has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Proposer has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Proposer will not violate any provision of the campaign finance laws of the Commonwealth.

6. Proposer has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

Continued on next page

7. Proposer acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

Amy Salmer

STATE OF Kentucky

COUNTY OF Fayette

The foregoing instrument was subscribed, sworn to and acknowledged before me by Amy Salmer on this the 16 day of June 2015.

My Commission expires: 3-26-2019

Jessica R Conley
NOTARY PUBLIC, STATE AT LARGE #530837

EQUAL OPPORTUNITY AGREEMENT

The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:
The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.
- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

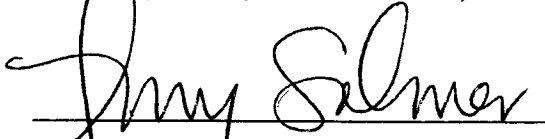
The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

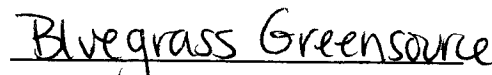
Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.



Signature



Name of Business

WORKFORCE ANALYSIS FORM

Name of Organization: Bluegrass Greensource

Date: 06/15/15

Categories	Total	White		Latino		Black		Other		Total	
		M	F	M	F	M	F	M	F	M	F
Administrators	3		3								
Professionals	16	3	13	1							
Superintendents											
Supervisors											
Foremen											
Technicians											
Protective Service											
Para-Professionals											
Office/Clerical											
Skilled Craft											
Service/Maintenance											
Total:											

Prepared by: Amy Sohner, Executive Director

Name & Title



LFUCG MWDBE PARTICIPATION FORM
Bid/RFP/Quote Reference # 23-2015

The MWDBE subcontractors listed have agreed to participate on this Bid/RFP/Quote. If any substitution is made or the total value of the work is changed prior to or after the job is in progress, it is understood that those substitutions must be submitted to Central Purchasing for approval immediately.

MWDBE Company, Name, Address, Phone, Email	Work to be Performed	Total Dollar Value of the Work	% Value of Total Contract
1. Not Applicable			
2.			
3.			
4.			

The undersigned company representative submits the above list of MWDBE firms to be used in accomplishing the work contained in this Bid/RFP/Quote. Any misrepresentation may result in the termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Bluegrass Greensource
 Company

June 15, 2015
 Date

Amy Sohner
 Company Representative

Executive Director
 Title

GENERAL PROVISIONS

1. Each Respondent shall comply with all Federal, State & Local regulations concerning this type of service or good.

The Respondent agrees to comply with all statutes, rules, and regulations governing safe and healthful working conditions, including the Occupational Health and Safety Act of 1970, 29 U.S.C. 650 *et. seq.*, as amended, and KRS Chapter 338. The Respondent also agrees to notify the LFUCG in writing immediately upon detection of any unsafe and/or unhealthful working conditions at the job site. The Respondent agrees to indemnify, defend and hold the LFUCG harmless from all penalties, fines or other expenses arising out of the alleged violation of said laws.

2. Failure to submit ALL forms and information required in this RFP may be grounds for disqualification.
3. Addenda: All addenda, if any, shall be considered in making the proposal, and such addenda shall be made a part of this RFP. Before submitting a proposal, it is incumbent upon each proposer to be informed as to whether any addenda have been issued, and the failure to cover in the bid any such addenda may result in disqualification of that proposal.
4. Proposal Reservations: LFUCG reserves the right to reject any or all proposals, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by a Respondent in the preparation of proposals.
6. Changes/Alterations: Respondent may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the proposal, and received by LFUCG prior to the scheduled closing time for receipt of proposals, will be accepted. The proposal, when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of proposal".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from a Respondent.
8. Bribery Clause: By his/her signature on the bid, Respondent certifies that no employee of his/hers, any affiliate or Subcontractor, has bribed or

attempted to bribe an officer or employee of the LFUCG.

9. Additional Information: While not necessary, the Respondent may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the Respondent's response. Additional documentation shall not serve as a substitute for other documentation which is required by this RFP to be submitted with the proposal,
10. Ambiguity, Conflict or other Errors in RFP: If a Respondent discovers any ambiguity, conflict, discrepancy, omission or other error in the RFP, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
11. Agreement to Bid Terms: In submitting this proposal, the Respondent agrees that it has carefully examined the specifications and all provisions relating to the work to be done attached hereto and made part of this proposal. By acceptance of a Contract under this RFP, proposer states that it understands the meaning, intent and requirements of the RFP and agrees to the same. The successful Respondent shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to Respondent shall be authorized for services or expenses reasonably covered under these provisions that the proposer omits from its Proposal.
12. Cancellation: If the services to be performed hereunder by the Respondent are not performed in an acceptable manner to the LFUCG, the LFUCG may cancel this contract for cause by providing written notice to the proposer, giving at least thirty (30) days notice of the proposed cancellation and the reasons for same. During that time period, the proposer may seek to bring the performance of services hereunder to a level that is acceptable to the LFUCG, and the LFUCG may rescind the cancellation if such action is in its best interest.

A. Termination for Cause

- (1) LFUCG may terminate a contract because of the contractor's failure to perform its contractual duties
- (2) If a contractor is determined to be in default, LFUCG shall notify the contractor of the determination in writing, and may include a specified date by which the contractor shall cure the identified deficiencies. LFUCG may proceed with termination if the contractor fails to cure the deficiencies within the specified time.

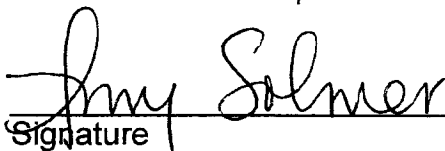
- (3) A default in performance by a contractor for which a contract may be terminated shall include, but shall not necessarily be limited to:
- (a) Failure to perform the contract according to its terms, conditions and specifications;
 - (b) Failure to make delivery within the time specified or according to a delivery schedule fixed by the contract;
 - (c) Late payment or nonpayment of bills for labor, materials, supplies, or equipment furnished in connection with a contract for construction services as evidenced by mechanics' liens filed pursuant to the provisions of KRS Chapter 376, or letters of indebtedness received from creditors by the purchasing agency;
 - (d) Failure to diligently advance the work under a contract for construction services;
 - (e) The filing of a bankruptcy petition by or against the contractor; or
 - (f) Actions that endanger the health, safety or welfare of the LFUCG or its citizens.

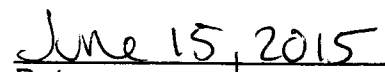
B. At Will Termination

Notwithstanding the above provisions, the LFUCG may terminate this contract at will in accordance with the law upon providing thirty (30) days written notice of that intent, Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.

13. **Assignment of Contract:** The contractor shall not assign or subcontract any portion of the Contract without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. **No Waiver:** No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this Contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.

15. Authority to do Business: The Respondent must be a duly organized and authorized to do business under the laws of Kentucky. Respondent must be in good standing and have full legal capacity to provide the services specified under this Contract. The Respondent must have all necessary right and lawful authority to enter into this Contract for the full term hereof and that proper corporate or other action has been duly taken authorizing the Respondent to enter into this Contract. The Respondent will provide LFUCG with a copy of a corporate resolution authorizing this action and a letter from an attorney confirming that the proposer is authorized to do business in the State of Kentucky if requested. All proposals must be signed by a duly authorized officer, agent or employee of the Respondent.
16. Governing Law: This Contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this Contract, the Parties agree that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division. All parties expressly consent to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to this Contract or any rights or obligations arising thereunder. Service of process may be accomplished by following the procedures prescribed by law.
17. Ability to Meet Obligations: Respondent affirmatively states that there are no actions, suits or proceedings of any kind pending against Respondent or, to the knowledge of the Respondent, threatened against the Respondent before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of Respondent to perform its obligations under this Contract, or which question the legality, validity or enforceability hereof or thereof.
18. Contractor understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Contractor is an independent contractor at all times during the performance of the services specified.
19. If any term or provision of this Contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.


Signature


Date

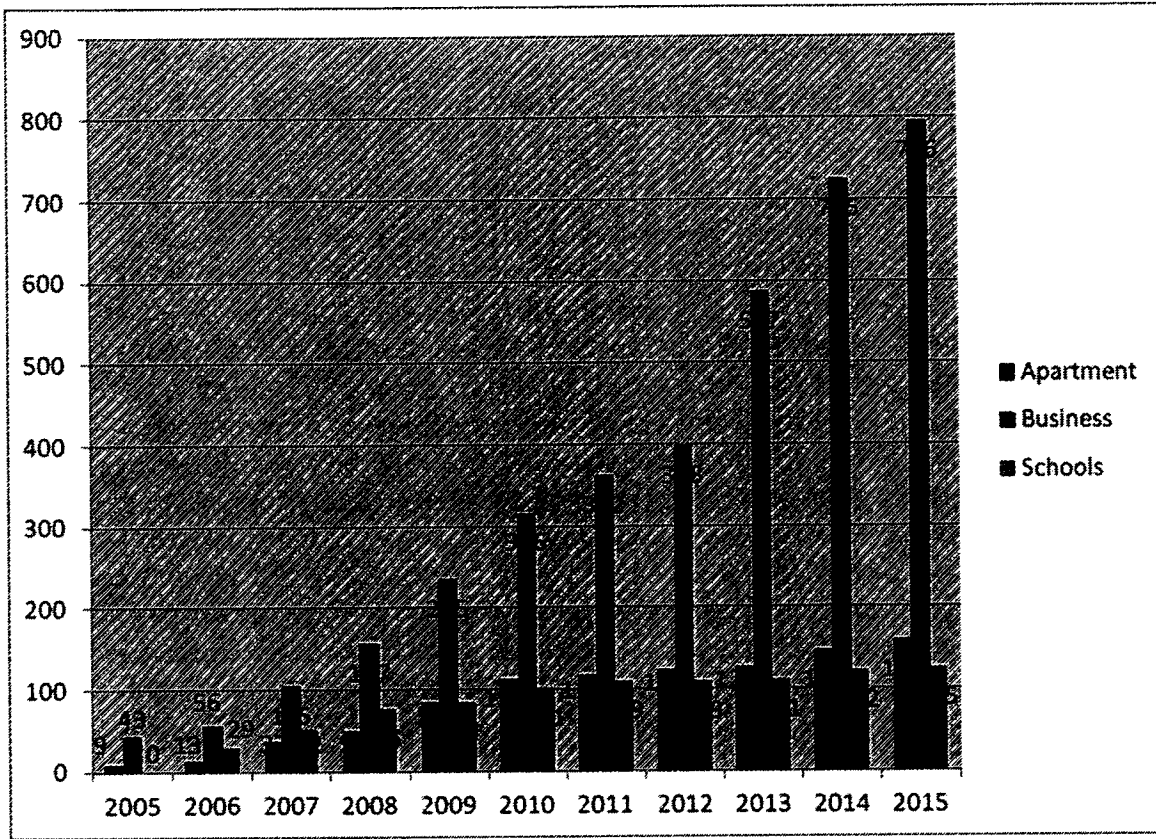
Vendor Qualifications

Programs

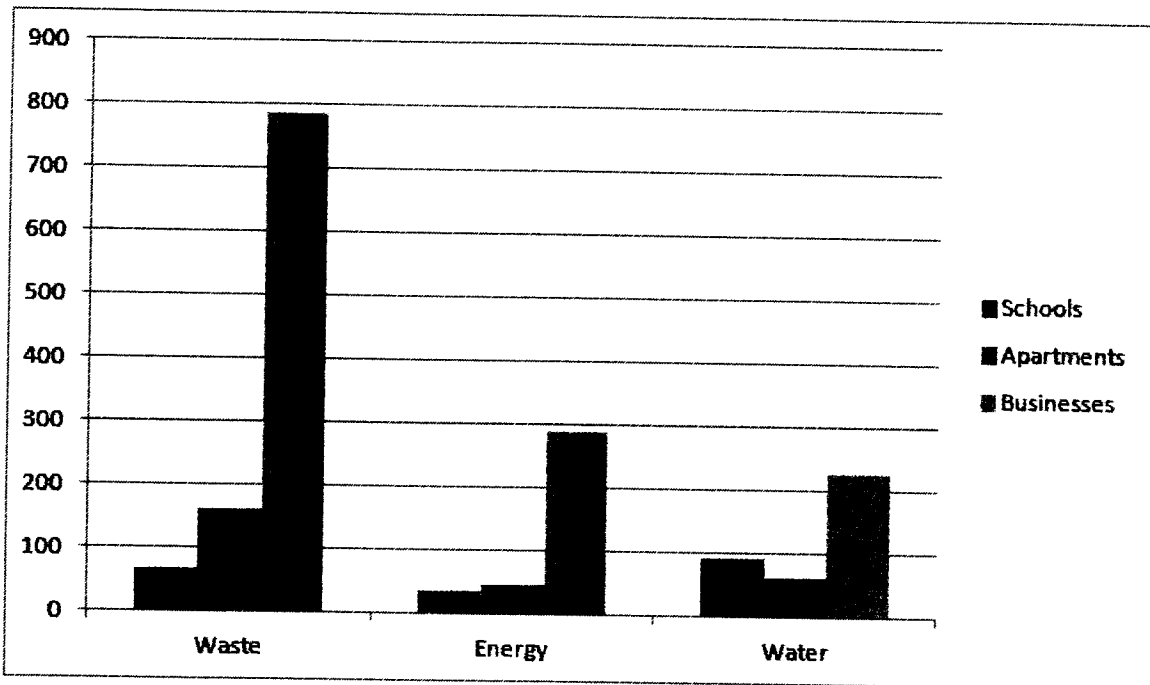
Bluegrass Greensource (formerly Bluegrass PRIDE) is an environmental non-profit that has served Central Kentucky since 2001. The organization's goal is to provide resources and information to local governments, organizations and individuals that help citizens of all ages learn to take responsibility for making our community more sustainable. While we address many environmental issues, our three main focus areas are waste reduction, water quality and energy efficiency. Greensource has developed and implemented dozens of outreach programs, some of which are described below. We have also built a very large and constantly growing network of contacts that represent the education, business and nonprofit communities in Lexington and surrounding counties. Some of the program and contact networks are described below, with emphasis on those programs that relate to the RFP. In addition to programs already in place, our constant presence in the community helps us identify needs and opportunities for sustainability programs and some of those new ideas are included as well.

LiveGreenLexington Partner Program – Contact Jennifer Myatt, LFUCG – 859/425-2807 and Lauren Monahan, LFUCG – 859/367-4948

For the past nine years, Bluegrass Greensource has managed the LiveGreenLexington Partner Program for LFUCG. This program works with businesses, schools and apartment complexes to encourage increased waste reduction, stronger awareness of water quality issues and increased energy efficiency in Lexington, Kentucky. The program currently works with **824 businesses, 125 Pre-K – 12 schools and 161 apartment complexes (over 17,770 units)**. The LiveGreenLexington Partner Program has received the Environmental Quality Commission Earth Day Award, Kentucky Association for Environmental Education's Excellence in Environmental Education Award and an award from the LFUCG Environmental Commission.



The LiveGreenLexington Partner Program allows participating businesses, apartments and schools to be recognized as Recycling, Water and Energy Partners. To participate, businesses and apartments commit to reducing their waste, increasing energy efficiency or improving the quality of water that runs off of their property. Bluegrass Greensource helps them achieve this by offering staff/resident presentations and trainings, waste audits, and numerous resources. In addition, Greensource staff act as a liaison between the Partner and LFUCG.



The LiveGreenLexington Partner program also seeks to foster a sense of environmental responsibility among tomorrow's leaders, successfully working with more than 100 pre-K through 12 schools in Fayette County. The program has 100% participation from Fayette County Public Schools and assists with recycling in all school support buildings including the bus garage, maintenance and warehouse buildings. Members of Bluegrass Greensource's education staff give schools personalized attention and assistance during the process of setting up their Live Green Lexington program and continue to work with them to establish the program. In addition, Greensource's education staff works with students throughout the school year, facilitating various Kentucky Core Academic Standards aligned waste reduction activities.

Additionally, as part of Greensource's current and previous contract with LFUCG, Greensource staff has designed and implemented a compost pilot program with more than 400 households in the Southland Drive neighborhood. They have also worked on over 200 litter cleanups in the last six years utilizing almost 1,000 volunteers, helped make public events waste and litter free and develop a Fats, Oil and Grease program geared towards restaurants and the general public.

Copies of many of the outreach materials associated with the above programs are included in the appendix of this proposal.

Community Energy Advisor – Contact: Tom Webb – 859/425-2808

Bluegrass Greensource served as LFUCG's Community Energy Advisor from 2010 through 2012, undertaking various activities and outreach initiatives to help residents and businesses reduce energy use.

Accomplishments during that time included:

- Participated in 100 outreach events focused on energy and used the opportunity to educate 5,518 people on energy efficiency
- Had 50 media hits related to energy efficiency
- Administered \$218,190 in grant funding for energy efficient retrofits to four nonprofit arts facilities
- Distributed 1,143 LED exit sign retrofit kits to 58 nonprofits and churches in Fayette County. These will result in estimated savings of \$274,320 and 3.4 million kWh.
- Facilitated three volunteer Caulk the Block weatherization events to reduce utility costs for Fayette County nonprofits.

Other applicable regional programs include:

- In 2013, Bluegrass Greensource received funding from the Kentucky Division of Water to expand the previous Bluegrass Rain Garden Alliance. This funding was intended to encourage the installation of **rain gardens** in six Central Kentucky counties. At the present time more than 20 rain gardens have been installed using funding from this grant.
- In 2013, Bluegrass Greensource received funding from the Kentucky Division of Water to assist homeowners in the **Dix River Watershed** repair or replace damaged septic systems.
- For the 12th year, Greensource has implemented its **Artistic Rain Barrel Program**. This program recruits local artists to decorate rain barrels which are then placed in highly visible areas in Central Kentucky. The barrels draw attention to how individuals can affect local water quality and empowers them to make improvements to their local waterways. As an expansion of this program, Greensource offers rain barrel making workshops throughout the year as well as selling plain rain barrels.
- **Household Hazardous Waste Month** stresses proper disposal, handling and storage of HHWs as well as use of non- (or less) hazardous alternatives. This campaign also includes distribution of free Waste Paint Hardener™.

- The **Litterbug Reporting Program** is heavily promoted during the Spring Cleanup campaign, though it is a service offered year-round. Greensource works with its eighteen counties to ensure that reported litterbugs receive a letter of warning, reminding them that litter is illegal and can be punished with a fine up to \$500. To date 5,657 litterbugs have been reported in Fayette County alone with a total of 7,306 reports when surrounding counties are added.
- **Resolution Cards:** Each holiday season, Greensource sends out postcards challenging Central Kentucky citizens to adopt environment-friendly behaviors in the new year. In addition to sending out the cards to more than 4,000 people on Greensource's mailing list, press releases on the program are sent to all media outlets in Greensource's 20 county service region and the encouraged actions are listed on Greensource's webpage. People choosing to officially participate in the program, by sending in their chosen resolutions by mail or through the website, are entered in a drawing to win prizes. Those participants who indicated they wanted Greensource to check up on their "waste reduction resolve" will receive reminder letters and support information at appropriate times throughout the year. The theme for 2014 was waste reduction.
- Inspired by Live Green Lexington, **Bluegrass Conservation Partners** works with businesses in surrounding counties to reduce waste and conserve water and energy
- **County wide school recycling programs** in Jessamine, Mercer, Anderson, Garrard, Lincoln, Boyle, Clark and Madison counties are inspired by the LiveGreenLexington Partner program
- Bluegrass Greensource has coordinated the Science Sensation area of the **Science Fair** for District 16, fielding an average of 35 booths and 2000 students
- Bluegrass Greensource assisted Kentucky American Water to develop criteria to help schools improve their **water conservation** efforts and has conducted KAW sponsored rain barrel workshops in Owen, Clark, Woodford, Scott, and Bourbon counties.

Bluegrass Greensource has worked with LFUCG on many of the campaigns described above and on more general outreach efforts. Greensource has also worked with Raven Run, McConnell Springs, The Arboretum, and Keep Lexington Beautiful through various programs. Specifically, Greensource has been involved in Lexington's Great American Cleanup, River Sweep, Reforest the Bluegrass, Arbor Day and Founder's Day activities each year since the organization's inception. Greensource has worked with the LFUCG Division of Waste Management on household hazardous waste programs- including an e-waste collection, a paint collection and on recent citywide collection events. Greensource staff also serves as members of the LFUCG Greenspace

Commission, Corridors Commission, Keep Lexington Beautiful
Commission and Tree Board.

All questions relating to the programs described above can be directed to
the organization's Executive Director, Amy Sohner, at 859/266-1572,
unless otherwise stated.

Vendor Qualifications

Staff

Staff key to this project include:

Amy Sohner, Executive Director

The Executive Director will be responsible for program management, quality control, and partnership development for all components of this contract. Amy has been instrumental in designing and overseeing the current LiveGreenLexington Program for the last 9 years.

Amy has served as the Director of Bluegrass Greensource since 2006 and was Deputy Director/Program Manger since its inception. She graduated from the University of Kentucky with a Natural Resource Conservation Management degree, and is a certified environmental educator with extensive field experience. In addition to her formal training and work experience, Amy has attended several workshops and conferences on social marketing and other public outreach and involvement methods and is a Kentucky Certified Nonformal Environmental Educator.

Resume attached.

Maxine Rudder, Deputy Director

The Deputy Director will be responsible for development of the school education program components, and will play a large role in recruiting and maintaining participating schools. She will also play a role in the overall development and expansion of the programs outlined in this proposal.

Maxine has worked with Bluegrass Greensource since August 2004 and has served as Deputy Director since 2010. As a retired teacher and administrator, Maxine's responsibilities are to develop classroom activities, design units of study and, align educational materials to Kentucky's education standards. In addition to serving on the LFUCG Corridors and Greenspace Commissions, Maxine in involved with the Kentucky Green and Healthy Schools Program, Kentucky Environmental Literacy Implementation Advisory Team, USGBC Green Schools Advocacy Team and the Kentucky Association for Environmental Education.

Resume attached.

Schuyler Warren, Bridget Abernathy and Rob Gates – Outreach Specialists

The Outreach Specialists will be responsible for carrying out work associated with the business and apartment recycling, water quality and energy efficiency programs, the zero waste program, the anti-litter campaign and the LiveGreenLexington Green Business Challenge.

Schuyler Warren is trained as a landscape architect and urban planner with experience in urban ecological systems and public outreach and involvement. He has worked on projects ranging from bicycle and pedestrian planning to local food market analyses.

Bridget Abernathy previously worked for the Kentucky Division of Forestry and other conservation-related organizations, where she assisted landowners, businesses and public agencies with stewardship, land management planning, and analysis and protection of natural resources in Kentucky.

Rob Gates has coordinated watershed management programs across a 10-county region, working with local, state and federal stakeholders to cultivate long-term strategic infrastructure development. He has extensive background in GIS, applied to a range of projects including water/wastewater planning, local food networks, and recreational trail initiatives.

Resumes attached.

Environmental Education

The Environmental Education staff will be responsible for all of the education programs described in this proposal geared toward pre-K through 12th grade. This includes maintaining relationships with each school's main contact and implementing experiential environmental education lessons related to water, waste reduction and energy efficiency. The Environmental Educators will also work with school PTA's, sporting events and after school programs to ensure that the green initiatives are integrated throughout each school campus.

Pattie Stivender, Education Coordinator

Pattie began working with BGGs in 2007 as an environmental educator and has served as Education Coordinator since 2012. Pattie has an extensive background in environmental education and is a Certified Professional Environmental Educator. As Education Coordinator Pattie's main duties are to guide five environmental educators in providing school programs and outreach activities for the BGGs service region. Pattie serves on the Kentucky Association of Environmental Education Certification Advisory Committee, coordinates the Science

Sensation portion of the 16th District Science Fair and is a member of the 16th District PTA.

Emily Casey, Environmental Educator

Emily Casey graduated from the University of Vermont with a B.S. in Early Childhood Special Education and Environmental Studies. She holds a current certification as a Professional Environmental Educator, as well as a birth-primary educator in Kentucky. Emily has been trained in the Project WILD, Aquatic WILD, Flying WILD, Learning Tree, and WET curricula. Emily spends most of her time in LFUCG's public and private Prek- Middle schools. Before Bluegrass Greensource, Emily's previous work experiences includes LFUCG Parks and Rec. Natural Areas (McConnell Springs), Breckenridge, Colorado Park and Recreation early childhood teacher, Natural Bridge State Park seasonal naturalist, educator at the Turtle Back Zoo, Early Childhood Teacher for the Orange East Supervisory Union in Bradford, VT and children's garden instructor at the Brooklyn Botanical Gardens in NYC.

Ashley Bryant-Cheney, Environmental Educator

Ashley Bryant Cheney is an Environmental Educator and the Volunteer Coordinator for Bluegrass Greensource. From Knoxville, TN, her background is in volunteer and program management at non-profit organizations including Community Shares of TN, Narrow Ridge Earth Literacy Center, and CASA of the TN Heartland. She holds a B.A. in Psychology and Cross-cultural Sociology from Carson-Newman University and a M.A. in Urban Studies and Community Development from Eastern University. Ashley is a trained in Culturally Competent Leadership and is certified in Project Aquatic WILD and Project Flying WILD. While at Bluegrass Greensource, she has developed the Green Jobs Program, Bluegrass GreenForce, and Main St. Clean Sweep.

Deb Larkin, Environmental Educator

Deb joined Bluegrass Greensource in March, 2010, as an Environmental Educator. She holds a B.S. in Horticulture from the University of Kentucky College of Agriculture. Before coming to Greensource, Deb was the Horticulturist for the Shaker Village of Pleasant Hill, near Harrodsburg, KY. During her 27 year tenure there, she researched and re-established the 19th century apple orchard, herb garden and heirloom seed industry. Her current responsibilities at Bluegrass Greensource include serving as educator for the non-traditional schools in Fayette County and as liaison with Girl Scouts – Kentucky's Wilderness Road Council.

Kara Sayles, Environmental Educator

Kara Sayles is an Environmental Educator and Rain Garden Project Coordinator. Her background is in Environmental Science and she holds

a B.A. with a focus on Ecological Design and Sustainable Agriculture from The Evergreen State College. Additionally she studied Environmental Technology at Bluegrass Community and Technical College. Kara has been an Environmental Educator at Bluegrass Greensource for the past seven years and recently completed the Professional Environmental Educator certification course for the state of Kentucky.

Danny Woolums, Environmental Educator

Danny Woolums works for Bluegrass Greensource as an Environmental Educator. Danny graduated from Transylvania University with a Bachelors degree in 2012 and has been working in the field since 2009. Danny has served on Transylvania University's President's Council for Sustainability, the Transylvania University Garden Association Council, the Board of Directors for Bluegrass Greenworks, and currently sits as the co-chair of the Education Committee on the Board of Directors for the Kentucky Association for Environmental Education. He is a state certified Environmental Educator and has also been certified as a workshop facilitator in 6 of the nation's leading environmental education curriculum guides. In Fayette County, he works primarily with grades K-8, but he is also responsible for two of the county's high schools.

Resumes attached

Crystal Barnes -- Communications Specialist

The Communications Specialist will be in charge of all messaging about the LiveGreenLexington Partners program and the other aspects of the contract. Examples of messaging include, video production, newsletter development and social media.

Crystal graduated from Berea College with a degree in English. There, she received extensive training in marketing, graphic design, and web development. Crystal uses that experience to promote Bluegrass Greensource's programs through media purchasing, social media campaigns, and a variety of print materials.

Vendor Qualifications: Contacts

In addition to an excellent staff, Bluegrass Greensource's extensive network of contacts is one of its greatest strengths. A network of contacts, especially in a school system, is a living, changing thing that must be constantly tended and therefore we work hard to keep it alive and growing. Over the past six years, PRIDE's staff has developed many professional relationships with teachers, administrators, support staff, managers and business owners. As one measure of the relationships we have developed, listed below are the committees on which Greensource staff serves.

- 16th District PTA Roundtable
- 16th District PTA Board of Directors
- 16th District PTA Green Team (Chair)
- Bluegrass ADD Natural Resource Advisory Committee
- Bluegrass GreenVision
- Bluegrass Forever Green
- Bluegrass Earth
- Bluegrass Tomorrow
- Bluegrass Youth Sustainability Council
- Bluegrass Food Alliance
- RecycleBowl
- Cane Run Watershed Council
- Downtown Development Authority
- Kentucky Environmental Literacy Plan Implementation Committee
- Fayette County Public Schools Sustainability Council
- Kentucky River Watershed Watch Volunteer
- LFUCG Tree Board
- LFUCG Greenspace Commission
- LFUCG Corridors Commission
- USGBC Green Schools Advocacy Team
- USGBC Mayor's Alliance
- Keep Lexington/Fayette County Beautiful Commission
- Kentucky Association for Environmental Education
- Kentucky Association of Teachers in Family and Consumer Sciences
- Kentucky Division of Conservation's Art and Writing Contest Planning Committee
- Kentucky River Basin Team
- Kentucky River Water Trail Alliance
- Kentucky Science Teachers Association
- Kentucky Stormwater Association
- Lexington Learning Cooperative
- National Energy Education Development Project review team

- North American Association of Environmental Educators
- North Limestone Community Development Corporation
- PTA Volunteer Task Force
- Sayre School's Green Council
- The Learning Center
- Town Branch Board
- Wild Ones
- Wolf Run Watershed Council
-

Project 1. LiveGreenLexington Partner Program

A. Public and Private Schools

Bluegrass Greensource began managing the LiveGreenLexington Schools Program (then known as WasteBuster) during the 2006-07 school year. Since that time, Bluegrass Greensource has developed over 1000 principal, teacher, custodian, and cafeteria manager contacts in Fayette County schools (public, private, and preschools). As of the date of this proposal, 100% of schools and support buildings (i.e. administration, maintenance, warehouses, bus garages) in the Fayette County Public School system are participating in the LiveGreenLexington Partners Program.

At Bluegrass Greensource, we believe our extensive network of contacts is one of our greatest strengths. A network of contacts, especially in a school system, is a living, changing thing that must be constantly tended. We work hard to keep it alive, well, and growing. Over the past nine years, Bluegrass Greensource has developed many professional relationships with teachers, administrators, support staff, and others.

GENERAL

1. Conduct a culminating event (annual awards ceremony) for each individual school based on the individual school's LiveGreenLexington program results.

For the past six years, Bluegrass Greensource and LFUCG have partnered with FCPS and private school representatives to conduct an annual recognition program (Appendix: Water Education 4.n.).

- a.** Bluegrass Greensource will continue recognizing schools and develop specific criteria for that recognition, including recognition for programs such as:
 - i.** Recycling Partners.
 - ii.** Water Partners.
 - iii.** Energy Partners.
 - b.** Bluegrass Greensource proposes the following improvements to that program:
 - i.** Have student/school projects displayed for viewing before the program.
 - ii.** Promote findings of waste reduction, water quality, and energy conservation projects through audio/visual media.
- #### **2. Create and maintain a webpage on the LiveGreenLexington Partner program that includes information on partner opportunities and how to become a partner, and identifies all current partners.**

- a. Bluegrass Greensource maintains a section on its own website, bggreensource.org, dedicated to a current listing of LiveGreenLexington Partners, information on the program itself, partner profiles, and other information relevant to program participants.
- b. Bluegrass Greensource will work in collaboration with LFUCG to rebrand and update the LGLP program to expand the marketing and public relations component of the program.
- c. Bluegrass Greensource will create a standalone website with its own domain, independent from both current Bluegrass Greensource and LFUCG domains, that is entirely dedicated to the program, including a member directory, profiles, videos, photos, and other materials pertinent to the successful expansion of the program. This website will be the destination for all information related to the program and will feature current, dynamic content that drives traffic to the site.
- d. Bluegrass Greensource will modify the program to create tiered levels of participation, in the manner of LEED, with promotional preference given to those businesses in the highest tiers.

3. Maintain data on the partner program and share data with LFUCG for the purpose of promoting on the city web page.

- a. Bluegrass Greensource maintains detailed records of waste and energy audit results, classroom activities, projects, and each school's participation in the LiveGreenLexington program.
- b. Bluegrass Greensource will continue to maintain these records and will submit data to LFUCG on a monthly basis or have available upon request.

4. Maintain and make available to LFUCG on a regular basis a database identifying current participants in the LiveGreenLexington program.

- a. Bluegrass Greensource currently maintains the database of all partners in an online database and LFUCG personnel have access to the database at all times. Information in the database includes:
 - i. School, Principal, and location of school.
 - ii. Teacher contact information.
 - iii. Type of LGLP School Partner.
 - iv. Number of Rosies or recycling dumpster, and location.
 - v. Activities Completed.
- b. Bluegrass Greensource will continue to provide data to LFUCG in this manner.

5. Work with LFUCG to publish the LiveGreenLexington e-newsletter for students and teachers and maintain a distribution list and distribution method.

- a.** For the past nine years, Bluegrass Greensource has maintained a comprehensive list of principals, teachers, cafeteria managers, and custodians in Fayette County Schools.
- b.** In 2011, Bluegrass Greensource was given permission by Superintendent of Fayette County Public Schools to email newsletters directly to personnel on existing distribution lists.
- c.** Bluegrass Greensource will distribute one e-newsletter every two weeks during the school year.
- d.** Bluegrass Greensource will prepare an “Opening of School” edition of the LiveGreenLexington Schools Partner Newsletter with articles such as:
 - i.** Information on how to report missed pickups.
 - ii.** Pickup schedule for Rosies and dumpsters.
 - iii.** Standard Operating Procedures (SOPs) on how to conduct a comprehensive school recycling program.
 - iv.** List of Bluegrass Greensource educators and the schools in which they work. (Appendix: General 5.d.iv.)
 - v.** Suggested timeline for completing waste reduction activities.
 - vi.** Criteria for becoming a LiveGreenLexington School Recycling Partner.

RECYCLING/WASTE REDUCTION

1. Maintain contact with and encourage environmental education efforts in each school in Fayette County (public & private) and attend faculty meetings as needed.

- a.** In the past three years Bluegrass Greensource has conducted 2,389 classroom activities.
- b.** Bluegrass Greensource will prepare “welcome back” packets for Fayette County School staff. These packets will contain items such as:
 - i.** Checklist of available waste reduction/litter activities.
 - ii.** Contact information for Bluegrass Greensource educators.
 - iii.** Promotional items such as bookmarks and notepads.
 - iv.** Alignment of activities to Kentucky Core Academic Standards and Fayette County Curriculum Maps.
- c.** Bluegrass Greensource will prepare an “Opening of School” edition of the LiveGreenLexington Schools Partner Newsletter with articles such as:
 - i.** Information on how to report missed pickups.
 - ii.** Pickup schedule for Rosies and dumpsters.
 - iii.** Standard Operating Procedures (SOPs) on how to conduct a comprehensive school recycling program.
 - iv.** List of Bluegrass Greensource educators and the schools in which they work.
 - v.** Suggested timeline for completing waste reduction activities.
 - vi.** Criteria for becoming a LiveGreenLexington School Recycling Partner.
- d.** During July and August, Bluegrass Greensource will contact via email or school visits principals, teachers, custodians, and/or cafeteria staff.
 - i.** Bluegrass Greensource will contact and schedule meetings with booster organizations/sponsors of various athletic organizations and after school groups (e.g., football, band, scouts, PTA, etc.) to discuss recycling plans and promotion
 - ii.** Bluegrass Greensource will invite school contacts to a Bluegrass Greensource open house to learn more about the educational materials Bluegrass Greensource has available to teachers and other staff.
 - iii.** Bluegrass Greensource will provide a display of LiveGreenLexington programs available in schools.
 - iv.** Bluegrass Greensource will work with existing School Sustainability Teams to establish environmental education goals.

- v. Bluegrass Greensource will plan activities for school field days, art days, and science days using an environmental theme.
- vi. Bluegrass Greensource will continue to work with private schools and preschools to meet specific recycling needs.

2. Review and revise (if necessary) all environmental and recycling curriculum at each school in Fayette County. Curriculum must meet educational guidelines set by the state. Align all waste reduction education materials used in schools with KY Department of Education Common Course Standards and Program Reviews, Next Generation Science Standards and Fayette County Public Schools curriculum maps.

- a. The Next Generation Science Standards were approved to be Kentucky Core Academic Standards for Science (Science Kentucky Core Academic Standards) by the Kentucky Board of Education at their June 5, 2013 meeting. The science standards have completed the legislative review process and are now incorporated into the Kentucky Core Academic Standards for implementation in the classroom. Bluegrass Greensource will align all curriculum materials to Kentucky Core Academic Standards.
- b. Bluegrass Greensource will align all curriculum materials to Fayette County Curriculum maps.
- c. Practical Living (the area of the curriculum that addresses consumer topics such as recycling, FOG, and composting) has not been tested since the state 2007-08 CATS assessment. It is now part of the Kentucky Department of Education Program Review for Practical Living/Career Studies. Program reviews are conducted at the district level to assess individual school performance levels in specific curriculum areas.
- d. Bluegrass Greensource will align the LiveGreenLexington Early Childhood (LGLEC) preschool section to meet Kentucky's Early Childhood Standards.
- e. In February 2012, the State Board of Education adopted the Kentucky Environmental Literacy Plan (KELP). This plan allows for additional opportunities for the implementation of environmental education in all areas of the curriculum. The Bluegrass Greensource Executive Director and Deputy Director currently serve on the KELP Implementation Advisory Team.

3. Maintain and expand a comprehensive sustainable recycling program in schools, preschool through 12th grade. This program should include at a minimum:

- a. Annual waste audits at each participating school.
- b. Comprehensive recycling plan including classrooms, lunchrooms, offices, janitorial staff, and maintenance.

- c. Special events/games recycling.
- d. Establishment of SOPs for all components of the recycling program.
- e. Coordination with LFUCG and schools for collection of materials.
- f. Assistance in identifying ways to manage wastes which are difficult to recycle (printer cartridges, batteries, electronics, etc).

a. Annual waste audits at each participating school

- i. Since 2006-07, Bluegrass Greensource has conducted more than 550 waste audits in Fayette County schools.
- ii. Bluegrass Greensource will offer a variety of waste audit options to fit individual school needs.
- iii. Bluegrass Greensource will distribute waste audit results to individual schools, the Fayette County Sustainability Council, and LFUCG as requested.
- iv. Bluegrass Greensource will showcase waste audit results during the annual recognition ceremony, highlighting schools with the greatest improvement in waste stream.
- v. Bluegrass Greensource will record a waste audit and have it available for viewing.
- vi. Bluegrass Greensource will offer creative ways for student representatives to present waste audit data in morning announcements, etc.

b. Comprehensive recycling plan including classrooms, lunchrooms, offices, janitorial staff, and maintenance.

- i. Bluegrass Greensource will update existing recycling plans (i.e., school contacts, dumpster/Rosie census).
- ii. Bluegrass Greensource will make presentations at the first quarterly meetings of cafeteria managers conducted by FCPS.
- iii. Bluegrass Greensource will participate in district sustainability team.
- iv. Bluegrass Greensource will continue working with FCPS to plan for recycling needs at new and renovated schools.

c. Special events/games recycling

Bluegrass Greensource will develop individual school plans for sporting and extracurricular events.

d. Establishment of SOPs for all components of the recycling program

Bluegrass Greensource will revise existing SOPs to address current LFUCG recycling procedures.

e. Coordination with LFUCG and schools for collection of materials

- i. Bluegrass Greensource will work with schools to identify and coordinate the best methods for classroom recycling collection.

- ii. Bluegrass Greensource will serve as a liaison between LFUCG and individual schools to deal with problems pertaining to the collection of recyclable materials.

- f. **Assistance in identifying ways to manage waste types which are difficult to recycle (printer cartridges, batteries, electronics, etc).**

- i. Bluegrass Greensource will direct schools to visit the LFUCG web page for information on alternative waste options (e.g. e-waste recycling, household hazardous waste, etc.).
 - ii. Bluegrass Greensource will revise existing SOPs on hard to recycle items.
 - iii. Bluegrass Greensource will work with the District PTA Green Team to promote e-waste recycling at the annual Recognition Ceremony.
 - iv. Bluegrass Greensource will work with the PTA to organize recycling at PTA sponsored events.

4. Identify and initiate programs that support a zero waste vision in schools.

- a. Bluegrass Greensource will work with the PTA to make teacher appreciation events zero waste.
- b. Bluegrass Greensource will recognize (via newsletters, website, etc.) classrooms that are zero waste during their annual waste audit (Appendix: Recycling Schools 4.b.).
- c. Bluegrass Greensource will work with preschools to have zero waste snacks.
- d. Bluegrass Greensource will provide displays on zero waste lunches at open houses, parent nights, PTA meetings, etc.
- e. Bluegrass Greensource will coordinate Zero Waste lunches for school staff members (Appendix: Recycling Schools 4.e.).
- f. Bluegrass Greensource will construct classroom Vermicompost bins to promote zero waste in those classrooms.
- g. Bluegrass Greensource will encourage schools to participate in a paper free day each semester.

5. Help identify new opportunities for cost savings for schools through waste reduction activities.

- a. Bluegrass Greensource will work with FCPS Sustainability Council to research how other school systems have used purchasing practices to save money.
- b. Bluegrass Greensource will encourage the creation and use of bins for collection of reusable paper, crayons, pencils and pens within the classroom.
- c. Bluegrass Greensource will design/distribute signage encouraging reuse of paper within workrooms and at copy stations.

- d. Bluegrass Greensource will encourage students and teachers to collect reusable items for art projects.
- e. Bluegrass Greensource will create a list of cost-savings techniques for classrooms for distribution through the school newsletter and at school events.

6. Continue programs that identify successful schools, classrooms, staff, etc. for rewards and recognition.

- a. Bluegrass Greensource will expand "The Golden Rosie" (a traveling award started by Bluegrass Greensource educators at Russell Cave Elementary to recognize the classroom that has the best recycling efforts for one week) to other schools (Appendix: Recycling Schools 6.a.).
 - i. Bluegrass Greensource will expand this program to other schools.
 - ii. Bluegrass Greensource will design a larger "Golden Rosie" to be presented at the recognition ceremony to the school with the best annual recycling results and the school with the most improved recycling results.
- b. For the past nine years, Bluegrass Greensource and LFUCG have partnered with FCPS and private school representatives to conduct an annual recognition program.
 - i. Bluegrass Greensource will have student/school projects displayed in the cafeteria area (or other location determined by host school) for viewing before the program.
 - ii. Bluegrass Greensource will promote the program as a Zero Waste event (i.e., compostable or reusable plates and dinnerware, compost all napkins and food waste).
 - iii. Bluegrass Greensource will recognize schools that achieve status as Recycling Partners, Water Partners, and Energy Partners.
 - iv. Bluegrass Greensource will continue to recognize schools in the following areas:
 - Zero Waste Classrooms.
 - School of the Month.
 - LiveGreenLexington Newsletters.
 - Bluegrass Greensource's Website.
 - RecycleBowl Recognition Ceremony.

7. Assist in school contests as needed such as the annual RecycleBowl aluminum beverage can recycling contest.

- a. Bluegrass Greensource will disseminate information on recycling contests to the District PTA Roundtable.
- b. Bluegrass Greensource will serve as the fiscal agent for monetary prize monies.

- c. Bluegrass Greensource will promote and publicize the contests through our contact lists.
- d. Bluegrass Greensource will participate in planning and organizing the recycling contest awards programs.

8. Coordinate with FCPS Sustainability Council, Bluegrass Youth Sustainability Council, PTAs, booster clubs and other similar organizations to promote recycling at school-related events and activities.

- a. Bluegrass Greensource will work with the PTA to organize recycling at PTA sponsored events.
- b. Bluegrass Greensource will contact and schedule meetings with booster organizations/sponsors of various athletic organizations and after school groups who use the buildings (i.e., football, band, scouts, and PTA).
- c. Bluegrass Greensource will work with student groups to:
 - i. Produce signage for collection systems.
 - ii. Make announcements requesting participation prior to events.
 - iii. Make announcements at events.
 - iv. Develop and facilitate waste reduction efforts at these events.
 - v. Encourage recycling at student group practices.

9. Work with school staff to establish yearly tangible recycling goals, i.e. goals to achieve an established percentage increase in the recycling rate.

- a. Bluegrass Greensource worked with Fayette County Public School system to develop the FCPS Sustainability Plan which addresses recycling. Bluegrass Greensource will continue to assist in its implementation.
- b. Bluegrass Greensource will use waste audit results to determine appropriate increases in recycling rate as compared to landfill bound waste rate.

WATER EDUCATION

Water education includes stormwater pollution prevention, promotion of stewardship of water resources, importance and functions of watersheds, how trees and urban forestry relate to stormwater, promoting proper ways to handle Fats, Oils and Grease (FOG) and the importance of a functional sanitary sewer system on maintaining public health. **This contract will have an increased focus on FOG education and other sanitary sewer issues.**

1. Utilize existing environmental education curricula to provide classroom activities focusing on water education in participating Fayette County schools (public, private, and home-school).

- a.** Bluegrass Greensource will prepare “welcome back” packets that emphasize water for Fayette County School staff. These packets will contain such items as:
 - i.** Checklist of available water quality activities and projects.
 - ii.** Contact information for Bluegrass Greensource educators.
 - iii.** Promotional items such as bookmarks and notepads.
 - iv.** Alignment of activities to Kentucky Core Academic Standards (Kentucky Core Academic Standards) and Fayette County Curriculum Maps.
- b.** Bluegrass Greensource will prepare a special edition of the LiveGreenLexington Schools Partner Newsletter (combine with recycling articles) with articles such as:
 - i.** A checklist of available water activities.
 - ii.** A list of Bluegrass Greensource educators and the schools they work with.
 - iii.** Suggested timeline for completing water activities, Kentucky Green and Healthy Schools Water Inventory, water projects, and culminating events.
 - iv.** A list of possible water projects.
 - v.** Criteria for becoming a LiveGreenLexington Environmental Steward (see Item 6 under school recycling).
- c.** Bluegrass Greensource will give teachers, especially those with streams on or near their schools' campus, information about Kentucky Watershed Watch, including training times and other information.
- d.** During July and August, Bluegrass Greensource will contact via email, phone, or school visits all principals, teachers, and parents with whom we hope to work.
- e.** During August and September, Bluegrass Greensource will contact STEM and other student Organizations, as well as teacher advisors, and begin building a framework for potential projects.
- f.** Bluegrass Greensource will invite school contacts to an open house to learn more about the educational materials and opportunities the LiveGreenLexington School program has available to teachers.

- g.** Bluegrass Greensource will attend beginning of school teacher meetings as allowed.
- h.** Bluegrass Greensource will create a flyer specific to each watershed and schools within that watershed. Each flyer will include the following:
 - i.** Information on the watershed.
 - ii.** Impacts on that watershed.
 - iii.** Best Management Practices to improve that watershed.
- i.** Bluegrass Greensource will provide information on FOG curriculum to middle school and high school Family and Consumer Science teachers.
- j.** Bluegrass Greensource will provide FOG displays and demonstrations at school's open house and science night events.
- k.** Bluegrass Greensource will use Watershed and Water Treatment EnviroScapes to demonstrate stormwater and sanitary sewer issues and BMPs.
- l.** Bluegrass Greensource will continue to create and offer classroom activities on HHW and alternative cleaners.
 - i.** Bluegrass Greensource will have a booth at teacher open house with recipes for alternative cleaners, examples of alternative cleaners, health hazards of traditional cleaners, etc.
 - ii.** Bluegrass Greensource will conduct activities to calculate the cost savings of using nontraditional cleaners.
 - iii.** Bluegrass Greensource will promote alternative cleaners through Family and Consumer Classrooms.
- m.** Bluegrass Greensource will provide lessons on the importance of urban forestry and how trees affect stormwater movement. These lessons will cover topics such as:
 - i.** Tree identification.
 - ii.** Tree root systems and their importance to prevent soil erosion.
 - iii.** Tree canopy importance to stream water quality.

2. Direct integration of water education across the curriculum.

- a.** Bluegrass Greensource will revise the interdisciplinary thematic unit for water education for use in summer programs/camps (Appendix: Water Education 2.a.).
- b.** Bluegrass Greensource will continue conducting watershed/nonpoint source pollution and EnviroScape demonstrations for classrooms, faculty meetings, clubs, etc. show how water education can be used for multiple disciplines.
- c.** Bluegrass Greensource will partner with FCPS Countdown to Kindergarten Program to offer water education activities during summer program events.

- d. Bluegrass Greensource will work with the YMCA, Extended School Programs, environmental clubs, and tutoring programs to conduct water education activities and projects.
- e. Bluegrass Greensource will create a list of water education activities that can be integrated into PE classes and school science, art, and field days.

3. Align all water education materials used in schools with KY Department of Education Common Course Standards and Program Reviews, Next Generation Science Standards and Fayette County Public Schools curriculum maps.

- a. The Next Generation Science Standards (NGSS) were approved to be Kentucky Core Academic Standards for Science (Science Kentucky Core Academic Standards) by the Kentucky Board of Education at their June 5, 2013 meeting. The science standards have completed the legislative review process and are now incorporated into the Kentucky Core Academic Standards for implementation in the classroom. All curriculum materials will be aligned to Kentucky Core Academic Standards.
- b. All curriculum materials will be aligned to Fayette County Curriculum maps.
- c. Practical Living (the area of the curriculum that addresses consumer topics such as recycling, FOG, and composting) has not been tested since the state 2007-08 CATS assessment. It is now part of the Kentucky Department of Education Program Review for Practical Living/Career Studies. Program reviews are conducted at the district level to assess individual school performance levels in specific curriculum areas.
- d. Bluegrass Greensource will align LiveGreenLexington Early Childhood (LGLEC) preschool section to meet Kentucky's Early Childhood Standards.
- e. In February 2012, the State Board of Education adopted the Kentucky Environmental Literacy Plan (KELP). This plan allows for additional opportunities for the implementation of environmental education in all areas of the curriculum. The Bluegrass Greensource Executive Director and Deputy Director currently serve on the KELP Implementation Advisory Team.

4. Work with students and teachers to conduct water quality monitoring and stormwater projects on each school campus. Promote findings through internal newsletters and PTAs.

- a. In the past three years, Bluegrass Greensource has conducted:
 - i. 3,549 Activities.
 - ii. 173 Projects.
- b. Bluegrass Greensource will provide stormwater education by planning, installing, and maintaining rain gardens as requested.

- c. Bluegrass Greensource will continue watershed and stormwater mapping projects with students.
- d. Bluegrass Greensource will participate in school stream day events.
- e. Bluegrass Greensource will work with student groups to submit articles to individual school newsletters.
- f. Bluegrass Greensource will continue assisting with programs like Kentucky Green and Healthy Schools and Trout in the Classroom.
- g. Bluegrass Greensource will raise stormwater awareness with stormdrain stencils and murals.
- h. Bluegrass Greensource will perform onsite water quality tests and macroinvertebrate ID for schools with an onsite water feature.
- i. Bluegrass Greensource will simulate water quality tests and assessments with schools that lack access to a water feature.
- j. Bluegrass Greensource will encourage schools to participate in Kentucky Water Watch Program.
- k. Bluegrass Greensource will encourage schools to display water projects at the annual school recognition ceremony.
- l. Bluegrass Greensource will continue to support the LiveGreenLexington School newsletter articles by highlighting school projects.
- m. Bluegrass Greensource will utilize its website and social media platforms for promotion.
- n. For the past six years, Bluegrass Greensource and LFUCG have partnered with FCPS and private school representatives to conduct an annual recognition program (Appendix: Water Education 4.n.).
 - i. Bluegrass Greensource will continue recognizing schools and develop specific criteria for that recognition, including recognition for programs such as:
 - Water Partners.
 - Water Projects.
 - Stormwater Sleuths (Appendix: Water Education 4.n.i.3.).
 - Jr. Stormwater Sleuths (Appendix: Water Education 4.n.i.4.).
 - ii. Bluegrass Greensource proposes the following improvements to that program:
 - Have student/school projects displayed for viewing before the program.
 - Promote findings of water quality projects through audio/visual media.

5. Promote water education programs through media outlets.

- a. Bluegrass Greensource will partner with local newspapers, broadcast networks, and radio stations to feature school projects and student involvement.

- b. Bluegrass Greensource will feature student engagement through Bluegrass Greensource social media channels, website and school newsletters.
- c. Bluegrass Greensource will encourage schools to promote water education/projects on school websites.

6. Promote school participation in the Kentucky Green and Healthy Schools Program.

- a. Bluegrass Greensource has been involved in KGHS program since its inception.
- b. Bluegrass Greensource will continue to promote this program in Fayette County Schools.
- c. Bluegrass Greensource will assist schools and provide activities that will help to complete the KGHS water inventory as requested.

7. Provide FOG training, including written materials, for school cafeteria staff and employees in English and Spanish languages.

- a. FOG training for school cafeteria staff and employees is provided by the Fayette County Health Department.
- b. Bluegrass Greensource will make a presentation on FOG to FCPS cafeteria managers at their first meeting of the school year.
- c. Bluegrass Greensource will distribute materials provided by LFUCG in both English and Spanish.
- d. Bluegrass Greensource will provide additional FOG training and education in schools by:
 - i. Working with the Foods Labs and Life Skills Classes at the middle and high school levels. These programs are 9 weeks or one semester long. Bluegrass Greensource will conduct FOG activities for grade level rotations, supplying them with materials and information when allowed.
 - ii. Bluegrass Greensource will develop activities and interactive displays for K-12 school programs such as science nights and open houses.

ENERGY

1. Work with schools to educate Fayette County students and staff on energy efficiency.

- a. Bluegrass Greensource will conduct energy awareness presentations at faculty meetings as allowed.
- b. Bluegrass Greensource will continue to promote energy reduction with displays at school programs.
- c. Bluegrass Greensource will give energy presentations at PTA meetings when allowed.
- d. Bluegrass Greensource will create a page on the Bluegrass Greensource website detailing ways to be more energy efficient in the classroom.
- e. Bluegrass Greensource will work with the Fayette County Public Schools Sustainability Council to monitor energy usage in Fayette County Public Schools.

2. Conduct educational activities and energy projects in the classroom.

- a. In the past three years Bluegrass Greensource has conducted 868 classroom activities and 81 projects.
- b. Bluegrass Greensource will continue to develop new interactive classroom activities and projects.
- c. Bluegrass Greensource will align all activities and projects to Kentucky Core Academic Standards and Fayette County Curriculum Maps.

3. Assist schools in conducting energy audits on their campuses.

- a. In the past three years, Bluegrass Greensource has conducted 60 energy audits with students.
- b. Bluegrass Greensource has school energy audit kits containing thermometers, kilowatt meter, foot candle meter, laser thermometer and directions for use of each item.
- c. Bluegrass Greensource will develop an energy audit worksheet that has measurement tools that aide in analysis of energy usage in the classroom and suggests corrective measures.

B. Apartments

Bluegrass Greensource has met with over 200 apartment complexes since the inception of the LiveGreenLexington Partner program. Under the guidance of Bluegrass Greensource, **161 apartment complexes (over 17,770 units)** have joined the program to date. Bluegrass Greensource will continue to provide assistance to these apartments in establishing or expanding recycling and waste reduction programs. Bluegrass Greensource supports apartments by providing educational material for staff (such as newsletters and fliers) and tenants (packets which include magnets, key chains, newsletters, and fliers), doing presentations for staff and tenants on recycling, and by providing assistance in handling problems with, or barriers to, recycling programs. Bluegrass Greensource staff also, when requested, assist the custodial and grounds crews of the complexes with recycling concerns, stormwater quality actions, and energy efficiency recommendations. Most of the materials provided to the apartments, including presentations, are also available in Spanish. Bluegrass Greensource staff provide a number of other per-request services, including waste audits.

GENERAL

- 1. Create and maintain a webpage on the LiveGreenLexington Partner program that includes information on partner opportunities and how to become a partner, and identifies all current partners.**
 - a. Bluegrass Greensource maintains a section on its own website bggreensource.org dedicated to a current listing of LiveGreenLexington Partners, information on the program itself, partner profiles, and other information relevant to program participants.
 - b. Bluegrass Greensource will work in collaboration with LFUCG to rebrand and update the LGLP program to expand the marketing and public relations component of the program.
 - c. Bluegrass Greensource will create a standalone website with its own domain, independent from both current Bluegrass Greensource and LFUCG domains, that is entirely dedicated to the program, including a member directory, profiles, videos, photos, and other materials pertinent to the successful expansion of the program. This website will be the destination for all information related to the program, and will feature current, dynamic content that drives traffic to the site.
 - d. Bluegrass Greensource will modify the program to create tiered levels of participation in the manner of LEED, with promotional preference given to those businesses in the highest tiers.

2. Maintain and make available to LFUCG a database on participants in the program.

a. Bluegrass Greensource currently maintains the database of all partners in an online database and LFUCG personnel have full access to the database at all times. Information in the database includes:

- i.** Owner, manager, and location information.
- ii.** Number of units.
- iii.** Type of LGLP Partner.
- iv.** Number of Rosies or recycling dumpster, and location.
- v.** FOG information distribution.
- vi.** Presentation tracking.

b. Bluegrass Greensource will continue to provide data to LFUCG in this manner.

RECYCLING / WASTE REDUCTION

1. Work with LFUCG to create newsletter content for landlords, tenants, management, etc. to be distributed electronically.

- a.** Bluegrass Greensource has worked with LFUCG in developing newsletters targeted to apartment management, landlords and tenants by writing articles and creating content during the past nine years.
- b.** Bluegrass Greensource will continue to use its existing relationships with Lexington apartment complexes to create content for newsletters, magazine articles, and case studies detailing the work apartments in the city are doing to be more sustainable, with preference going to coverage of those apartments in the highest tiers of the program.
- c.** Bluegrass Greensource staff will use its current and new relationships with apartment complexes to determine what newsletter content is necessary to increase recycling rates across the city. The newsletter will include information on waste reduction and recycling, and content will highlight innovation and achievement in recycling, water, and energy.
- d.** Cost savings will be explained and included to show other apartment complexes specific examples of how to achieve cost savings.
- e.** Apartment complexes highlighted in the newsletter will receive enough copies to hand out to employees. All apartment complexes will receive an electronic copy of the newsletter as well as a link to the newsletter on our website, to distribute via email to tenants and post on their own website.
- f.** Other services or programs provided by LFUCG Waste Management will be noted in the newsletter, such information on disposal of other items (paint, appliances, furniture, yard waste, CFLs, and HHW), as well as details about special events such as move-out day events.
- g.** As a result of its growing relationship with La Voz newspaper, Bluegrass Greensource Outreach Specialists will determine the specific recycling needs that concern the Hispanic community, and use targeted newsletters to address those needs.
- h.** Materials provided by LFUCG will be distributed to complexes targeted through the United Hispanic Association and local resources serving the Hispanic community.
- i.** Bluegrass Greensource will continue to outreach to LiveGreenLexington apartments to enhance the electronic database for an e-newsletter, so that residents can receive the newsletter and information via email.

2. Continue to promote sustainable recycling programs within apartment complexes that are currently not participating in LiveGreenLexington Partner Program.

a. Attend resident meetings and conduct presentations

- i.** Bluegrass Greensource staff will participate in GLAA Education Committee meetings to target apartment complexes not currently recycling.
- ii.** Bluegrass Greensource will participate in GLAA's Education Committee Workshop series, and will offer presentations on apartment recycling.
- iii.** Bluegrass Greensource will also attend resident meetings when possible to promote recycling programs, encourage participation as a LiveGreenLexington Partner, and make presentations when requested. Presentations will cover topics such as:
 - What is recyclable locally and examples of recyclables.
 - What is not recyclable and why it cannot be recycled locally.
 - What happens to recyclable materials after leaving the apartment complex.
 - Ways to reduce waste beyond recycling.

b. Develop educational packets

Educational packets for current and new tenants will continue to be revised and edited, as needed. Packets will include materials provided by LFUCG, such as:

- i.** Fliers with information on what is and is not recyclable in Lexington, and electronic copies.
- ii.** Magnets and key chains encouraging recycling.
- iii.** Copy of current newsletter.
- iv.** Information on how to reduce waste and HHW.
- v.** Information provided by LFUCG will be available in Spanish for those apartments with Hispanic residents.

c. Develop SOPs for the sustainable recycling program

- i.** Bluegrass Greensource has created SOPs for apartments wishing to start or expand their recycling program as part of the management of the LGLP program. In addition, Bluegrass Greensource has developed internal SOPs for communication with LFUCG on items such as dumpster conversions, recycling dumpster education plans, and Rosie orders.
- ii.** Bluegrass Greensource will continue to update existing SOPs according to the newly identified barriers and new programs that are created.
- iii.** SOP's will be made available through Bluegrass Greensource's website, when appropriate, and will include:
 - How to offer recycling at an apartment complex.

- List of what is and is not recyclable.
 - Best ways to inform or residents about the recycling program.
 - How to recycle in the management office, even when there is a change in management and/or ownership of the apartment complex.
 - How to handle large items, or disposal of other materials such as paint, tires, appliances, HHW and electronics.
- iv. Encourage participation in the LiveGreenLexington Partner program.

3. Work with relevant professional organizations such as the Greater Lexington Apartment Association, Landlords Association, management associations, etc. to identify recycling needs as well as impediments to recycling. Assist in the implementation of recycling programs in complexes.

- a. Bluegrass Greensource will continue its involvement with property management groups such as the Landlords Association to develop and expand relationships and help identify recycling needs, and will continue collaboration with new apartment management companies and organizations that work with vulnerable groups such as the Lexington Housing Authority.
- b. Bluegrass Greensource will maintain and strengthen their relationship with the Greater Lexington Apartment Association (GLAA), by continuing to serve on their Education Committee (formerly the Green Committee), and by regularly attending GLAA meetings.
 - i. Bluegrass Greensource will assist in the implementation of recycling programs in complexes and participation in GLAA's Education Committee workshop series.
 - ii. Bluegrass Greensource will continue to recognize new LiveGreenLexington Partner Apartment managers in front of their professional peers at quarterly GLAA General Membership Meetings.
- c. Bluegrass Greensource will collaborate with AHU (United Hispanic Association), La Voz, and other local resources to further reach apartments that have a high percentage of Hispanic residents. An awareness and outreach campaign for Spanish speaking residents will include:
 - i. Information and displays at local libraries, churches and civic organizations.
 - ii. Media efforts through local Hispanic radio and newspaper.

4. Identify 2 apartment complexes in which to conduct a comprehensive recycling and waste generation reduction program.

To include:

a. Special Waste Handling (HHW, electronics, bulky items, etc.)

- i.** Bluegrass Greensource will use its association with GLAA and its existing network of apartment complexes to identify and work with two current LiveGreenLexington Partner Apartments that have well-established recycling programs to offer a waste reduction education program that will include special waste handling. This program will include:
 - Educational materials for residents on how to properly dispose of this type of material, including HHW, electronics, bulky items, tires, yard waste, appliances, paint, pharmaceuticals, CFLs, furniture, and other items.
 - Coordination with management and staff on proper disposal of items and collaboration with LFUCG, Goodwill, Re-Store, and other entities on pick up service, such as a pick up day at each apartment complex to facilitate transportation for residents.
 - Trainings and educational information for maintenance crews and management on handling of special waste such as HHW, electronics, bulky items, tires, yard waste and appliances.
 - Provide copies and electronic copies of Bluegrass Greensource's HHW alternatives and electronic recycling brochures.
- ii.** Bluegrass Greensource will provide information to apartment complexes about HHW drop off locations. Bluegrass Greensource will outreach to apartment complexes and distribute information about HHW drop off site through the GLAA and the e-newsletter.

b. Large waste producing times (such as move out times for college students)

- i.** Bluegrass Greensource has coordinated Move Out Madness in multiple years for apartments located near college campuses. This event included item drop off points for residents, and items were picked up by Goodwill, Habitat for Humanity ReStore, International Book Project, God's Pantry, and LFUCG Electronic Waste Recycling.
- ii.** Bluegrass Greensource will continue to work with apartment complexes and LFUCG to offer move out waste collection events.

5. Assist LFUCG Waste Management staff in preparing and implementing education plans for apartment complexes that request a recycling dumpster.

- a. Bluegrass Greensource will meet one-on-one with apartment complexes that are interested in starting a new recycling program using a dumpster.
 - i. A sample education plan form will be given to any apartment complex interested in the commingled recycling dumpster program. (Appendix: Apartment Recycling / Waste Reduction 5.a.i.).
 - ii. Supportive educational materials (recycling signs, stickers, etc.) provided by LFUCG will be distributed to apartments requesting a recycling dumpster.
 - iii. Apartments will receive a "How to start a recycling program" flier that outlines the process for starting a new recycling program.
 - iv. Bluegrass Greensource will provide any and all necessary opportunities for apartment management and staff that are beginning or expanding their recycling program, including:
 - Presentations about recycling and waste reduction.
 - Recycling fliers- hard copy and electronic copy.
 - Assistance planning kickoff event for management and staff.
 - Information for internal apartment complex newsletters and GLAA newsletter.
 - Information for apartment complex websites and GLAA website, including logos and branding of LFUCG program.
 - v. Bluegrass Greensource will continue maintaining a database for all recycling dumpsters in Lexington with contact information.

6. Conduct follow-up visits with all participating apartment complexes and their on-site management to encourage continued participation in the program (at least one site visit a year to each complex), and provide educational materials to managers.

- a. Bluegrass Greensource staff will continue to strengthen relationships with apartment complexes, by making yearly site visits. The visits will include:
 - i. Replenishing supplies for move-in packets.
 - ii. Addressing any questions or concerns related to sustaining or expanding recycling programs.
 - iii. Providing information for distributing electronic copies of fliers to residents.

- b.** Bluegrass Greensource will provide apartment complexes with ongoing assistance and resources, and helping to market their efforts in coordination with LGUCG.
 - i.** More intensive marketing of current partners will drive apartments to seek out the program so they can be recognized along with their peers. Marketing will comprise strategies such as highlights in publications of GLAA's magazine, social media campaigns, newsletters, and other content generated by Bluegrass Greensource about the program and partners.
 - ii.** Ongoing assistance will encompass strategies such as annual updates with each member apartment complex, training sessions made available to partner management and staff, and other efforts to increase participation in recycling and waste reduction programs, and ensuring that apartment complexes are successfully and appropriately separating materials.
- c.** Staff will make contact with a representative from each LiveGreenLexington Partner Apartment within six months after establishing a recycling program. Continued contact will be maintained through emails, phone calls, and site visits to each property.

WATER

- 1. Provide FOG training, including written materials, for staff, residents and employees of apartments in English and Spanish languages. Focus specifically on apartments in neighborhoods designated as priority areas (as determined by LFUCG).**

Bluegrass Greensource will continue to provide Fats, Oils and Grease (FOG) trainings and educational materials to apartments throughout Fayette County, with added focus given to areas determined by LFUCG to be of high priority. Staff will distribute water quality information in those areas as well as FOG information. Opportunities for outreach include:

- a. Presentations targeting apartment residents that include proper FOG handling and disposal information, information on local oil recyclers, and employee trainings. Materials are available in English and Spanish.
 - b. Information will be maintained on Bluegrass Greensource's website about proper disposal of FOG.
 - c. Bluegrass Greensource will research FOG campaigns in cities similar to Lexington to strengthen local participation.
- 2. Educate apartments on LFUCG requirements for the elimination of illicit connections to the sanitary sewer and the sump pump re-direct program. (Code of Ordinance Chapter 16, Article XI)**
 - a. As part of normal outreach to apartment complexes, Bluegrass Greensource will include information on both illegal connections to the sanitary sewer and the sump pump re-direct program in any water presentations where deemed applicable.
 - b. Bluegrass Greensource will continue to offer information to apartment staff on how to identify Clearwater connections to the sanitary sewers and steps needed to eliminate such connections.
 - 3. Educate apartments on the optimal way to maintain private sanitary sewer lateral lines such as the impact that trees have to damaging the service lateral, the need to conduct preventative maintenance to the privately owned part of the system, and the importance of having clean-out caps.**
 - a. As part of normal outreach to apartment complexes, Bluegrass Greensource will include information on proper care and maintenance of privately owned sanitary sewer lateral lines where deemed applicable.
 - b. Bluegrass Greensource will continue to offer information to apartment staff about sanitary sewer lateral lines and Best Management Practices (BMPs). The trainings will cover topics such as proper preventative maintenance, how to prevent and identify tree root damage and specific information on identifying problem trees near sewer lines, and the need to have clean-out caps.

4. Conduct resident/employee trainings and education on pollution prevention and water conservation.

- a. Bluegrass Greensource has conducted apartment complex management and staff trainings on pollution prevention and water conservation through the LGLP program.
- b. Bluegrass Greensource will continue to provide these services to apartment complexes as requested, and encourage apartments to provide information on these topics to staff and residents on a regular basis.
- c. Bluegrass Greensource will work with GLAA and other relevant groups to offer water conservation and pollution prevention presentations for their residents. Presentations will focus on topics such as:
 - i. Information about water pollution and prevention, BMPs, and water conservation. This information will be available for managers to give to their tenants and include in new move in packets.
 - ii. Demonstration activity on how to read their water bill for changes and errors.
 - iii. Information on potential cost savings.
 - iv. Information targeted at their type of apartment, its location, and specific water quality issues in the area.

5. Help entities identify cost savings through water best management practices

- a. Bluegrass Greensource will continue to provide information on BMPs to all apartment complexes it has met with, including maintenance staff and ground crews.
- b. In addition, Bluegrass Greensource will continue to provide information on, and will continue to encourage participation in the city's Stormwater Incentive Grant Program. This information includes background on the program, case studies, stormwater BMPs that have been funded, and contact information for the grants manager.
- c. Bluegrass Greensource will work with LFUCG to identify high risk areas and tailor outreach to those apartment complexes on topics pertinent to them.
- d. Bluegrass Greensource will continue to work with apartment complexes to provide information on the Stormwater Incentive Grant Program.
- e. Bluegrass Greensource will continue to provide information to all apartment complexes on topics such as:
 - i. Lawn care.
 - ii. Litter abatement.
 - iii. Household hazardous waste disposal.
 - iv. Vehicle maintenance.

- v. Pet waste disposal.
- f. Bluegrass Greensource will offer trainings for apartment managers as part of becoming a LiveGreenLexington Partner. Trainings will focus on topics such as:
 - i. Information on BMPs targeted to the type of apartment complex.
 - ii. Running dish washers and washing machines only when full.
 - iii. Proper maintenance of appliances that use water.
 - iv. Limiting use of garbage disposal.
 - v. Installing and using low flow showerheads.

6. Work with maintenance crews to develop and implement Best Management Practices (BMPs) to prevent water pollution in areas such as lawn care (including managing grass clippings, leaves and other yard waste and fertilizer/pesticide application), litter abatement, pet waste, household hazardous waste disposal, vehicle maintenance, surface cleaning (including parking lots), wash water disposal and proper mulch application and storage.

- a. Bluegrass Greensource will continue to provide information on BMPs to all apartment complexes it has met with, including maintenance staff and ground crews.
- b. Bluegrass Greensource will cooperate with the GLAA to assist maintenance crews in offering information and trainings on subjects such as:
 - i. Lawn care:
 - Grass clipping and leaf mulching, yard waste disposal options, limiting the use of certain types of pesticides and fertilizers that are especially harmful to waterways.
 - ii. Litter abatement:
 - Anti-litter, anti-cigarette butt litter, litter clean-ups, Report a Litter Bug.
 - iii. Pet waste disposal.
 - iv. Household hazardous waste disposal.
 - v. Vehicle maintenance:
 - Discarded vehicle parts, including tires.
 - Motor oil and other vehicle fluid disposal.
 - vi. Surface Cleaning:
 - Parking lot cleaning techniques to prevent water pollution, timing, proper wash water disposal.
 - Cleaning techniques and products to prevent water pollution.
 - vii. Proper mulch application and storage.
 - viii. Using water efficient landscaping and water systems:

- Landscape watering and managing in-ground sprinkler systems.
- Low-maintenance tree and plant selection.
- ix. Urban forestry related to water quality:
 - How trees reduce stormwater runoff.
- x. Landscape selection and maintenance information:
 - Tree and shrub selection.
 - Planting methods.
 - Plant and tree health, pruning, and maintenance.

7. Organize volunteer groups to stencil storm drains surrounding participating apartment complexes.

- a. Bluegrass Greensource currently organizes storm drain stenciling events with apartments participating in the LGLP program.
- b. Bluegrass Greensource will identify volunteer groups within current partner apartment complexes that are willing to stencil storm drains on their own apartment complex property or in nearby commercial areas or neighborhoods.
- c. Bluegrass Greensource will continue to plan and coordinate storm drain stenciling events and will encourage management, staff, and resident participation.
- d. Bluegrass Greensource will continue to utilize its current volunteer list to recruit other volunteers that are willing to assist with storm drain stenciling events.

8. Implement a “Pick up Pet Waste” campaign for apartments.

- a. Bluegrass Greensource will continue to contact apartment complexes to encourage residents to pick up their pets’ waste. Materials provided by LFUCG will also be available in Spanish. This campaign will include:
 - i. Information and fliers for current residents and for new move-in packets, including the impact to local water systems.
 - ii. Signs provided by LFUCG to prompt pet owners to pick up after pets.
- b. Bluegrass Greensource staff will also work with local pet shops and veterinary offices to display reminders of pet waste impacts to water quality in the pet food section.

9. Encourage groups (staff/residents) to participate in litter cleanups.

- a. Bluegrass Greensource currently organizes dozens of litter cleanup events per year, and encourages apartment complex participation in these events.
- b. Bluegrass Greensource will continue to identify volunteer groups within current partner apartment complexes that are willing to participate in litter cleanups.

- c. Bluegrass Greensource will continue to plan and coordinate litter cleanups that include participation from apartment complexes.
- d. Bluegrass Greensource will encourage apartment complexes to post 'Litter Free Zone' signs provided by LFUCG on their property to let residents and visitors know that they are maintaining a litter free zone.
- e. Pocket and car ashtrays will be distributed, in conjunction with LFUCG and the Keep Lexington Beautiful Commission, to apartment complexes interested in handing them out to residents.

10. Promote programs through media outlets.

- a. Bluegrass Greensource currently works with LFUCG to promote apartments participating in the LGLP program through ad buys in local media, social media promotion, newsletters, articles, and other means.
- b. As part of the effort to focus more intently on promotion of current partners and recruitment to the program through advertising, Bluegrass Greensource, with support from LFUCG, will promote through means such as:
 - i. Full page spreads in print media listing partners.
 - ii. Smaller ads focusing on partners in the upper tiers of the program.
 - iii. Radio spots driving traffic to the website or giving 30-second case studies.
 - iv. Quarterly or more frequent columns in Business Lexington.
 - v. Articles on select businesses in city residential newsletter.
 - vi. Short video profiles of partner businesses.
 - vii. Press releases and advisories.
 - viii. Regular articles for KY Forward.
 - ix. Social media.
 - x. Monthly e-newsletter to LGLP partner list.
- c. Bluegrass Greensource will continue to work with Clear Channel Radio's 'In Touch' and GTV3 to promote and recognize water education efforts in Lexington.

ENERGY

1. Assist apartments with energy audits as requested.

- a.** Bluegrass Greensource will provide resources for energy efficiency technologies, practices, incentives, and energy audits.
 - i.** These resources will be available on the Bluegrass Greensource website and the link will be shared regularly via social media, newsletter articles, and in personal communication.
 - ii.** Bluegrass Greensource will provide energy audit kits for apartment complexes to borrow, and will assist complexes in using kits and assessing information.
- b.** Energy resources available on displays at outreach events will include information such as:
 - i.** Kentucky Utilities (KU), Columbia Gas, and Blue Grass Energy incentive programs and other special program information.
 - ii.** Information about KU, Columbia Gas, and Blue Grass Energy energy audits.
 - iii.** General energy audit information from contractors.
 - iv.** Maintenance tips to lower energy use.
 - v.** A lighting display illustrating foot-candle to energy use relationship for various types of bulbs.
 - vi.** Solar and wind energy displays.
 - vii.** Efficient building models.
 - viii.** Energy audit kit information.

2. Increase Energy Partner Program participation with 25 new participants per year split among businesses and apartments.

- a.** Bluegrass Greensource currently works with over 160 apartment complexes through the LiveGreenLexington Partner program, and will increase the Energy Partner participation.
 - i.** Bluegrass Greensource will promote energy efficiency and cost savings in conjunction with water quality/efficiency and waste reduction.
 - ii.** Bluegrass Greensource will make presentations to apartment complexes that address sustainability and energy efficiency information, including:
 - Home maintenance tips to reduce energy usage, developed for apartment tenants.
 - Purchasing recommendations for appliances and lighting, developed for apartment managers.
 - Behavioral change recommendations such as using power strips, adjusting thermostats, and cleaning refrigerator coils.

- iii.** Bluegrass Greensource will continue to work with GLAA to promote the LiveGreenLexington Partner program and to recruit new partners.
 - Bluegrass Greensource will make presentations at the GLAA Education Committee meetings and General Membership meeting.
 - LiveGreenLexington Partners will be highlighted in the GLAA newsletter, and information for new partners will be available in the newsletter.
- iv.** Bluegrass Greensource will maintain and update energy efficiency information on its website, comprised of:
 - Energy audit resources.
 - Tax credit information.
 - Incentives through Kentucky Utilities, Columbia Gas, and Blue Grass Energy.
 - Energy tracking software links.
 - Demand conservation program information.
 - Information about electronic recycling for old equipment and appliances.
 - Tip sheets developed for apartment tenants.
 - Resources for additional material and education.

C. Businesses

Bluegrass Greensource has met with over 1,000 businesses since the inception of the LiveGreenLexington Partner program. Under the guidance of Bluegrass Greensource, **824 businesses** have joined the program to date. Bluegrass Greensource has provided assistance to these businesses in establishing or expanding recycling and waste reduction programs, implementing water quality improvements, and becoming more energy efficient. Bluegrass Greensource supports businesses by helping them develop their sustainability plans, providing educational materials for staff and employees (such as newsletters and fliers), conducting presentations for staff, and by providing assistance in addressing barriers to achieving their sustainability goals. Bluegrass Greensource staff also provide a number of other per-request and custom services and resources to businesses.

GENERAL

- 1. Create and maintain a webpage on the LiveGreenLexington Partner program that includes information on partner opportunities and how to become a partner, and identifies all current partners.**
 - a. Bluegrass Greensource maintains a section on its own website bfgreensource.org dedicated to a current listing of LiveGreenLexington Partners, information on the program itself, partner profiles, and other information relevant to program participants.
 - b. Bluegrass Greensource will work in collaboration with LFUCG to rebrand and update the LGLP program to expand the marketing and public relations component of the program.
 - c. Bluegrass Greensource will create a standalone website with its own domain, independent from both current Bluegrass Greensource and LFUCG domains, that is entirely dedicated to the program, including a member directory, profiles, videos, photos, and other materials pertinent to the successful expansion of the program. This website will be the destination for all information related to the program, and will feature current, dynamic content that drives traffic to the site.
 - d. Bluegrass Greensource will modify the program to create tiered levels of participation in the manner of LEED, with promotional preference given to those businesses in the highest tiers.
- 2. Maintain and make available to LFUCG a current database on participants in the program.**
 - a. Bluegrass Greensource currently maintains the database of all partners in an online database and LFUCG personnel have full access to the database at all times. Bluegrass Greensource will

continue to provide data to LFUCG in this manner. Information in the database includes:

- i.** Name of business.
 - ii.** Address of business.
 - iii.** Contact information.
 - iv.** Type(s) of LGLP partner.
 - v.** Sign up date.
 - vi.** Last contact date.
 - vii.** Information on waste and recycling programs.
 - viii.** Number of employees.
- b.** Bluegrass Greensource will continue to provide data to LFUCG in this manner.

3. Conduct Annual Go Green, Save Green Workshop.

- a.** Bluegrass Greensource has expanded this workshop annually for six years. Starting originally at the University of Kentucky Extension office, and then moving to Transylvania University campus, the workshop has been held for the past two years at the LEED-certified campus of Bluegrass Community and Technical College on Newtown Pike. Bluegrass Greensource has developed partnerships with key organizations such as the Kentucky US Green Building Council to expand programming and marketing reach.
- b.** Bluegrass Greensource will work with other organizations to expand the workshop to be more broadly appealing and to provide a more regional draw. In addition to the topics already covered each year, the workshop will add other topics that fit within the broad theme of sustainability and provide more in-depth sessions. Emphasis will be placed on finding regional speakers for sessions, and national speakers for keynotes.
- c.** LFUCG will be a presenting sponsor, through their support of Bluegrass Greensource, with other organizations such as Kentucky US Green Building Council, Kentucky EXCEL, Bluegrass Tomorrow, Kentucky Sustainable Building Council, and Bluegrass Forever Green as secondary sponsors.

RECYCLING/WASTE REDUCTION

1. Work with LFUCG to create newsletter content for landlords, management, etc. to be distributed electronically.

- a. Bluegrass Greensource has worked with LFUCG in developing quarterly newsletters targeted to businesses by writing articles and creating content during the past nine years.
- b. Bluegrass Greensource will continue to use its existing relationships with Lexington businesses to create content for newsletters, magazine articles, and case studies detailing the work businesses in the city are doing to be more sustainable, with preference going to coverage of those businesses in the highest tiers of the program.
- c. Content will highlight innovation and achievement in recycling, water, and energy.
- d. Cost savings will be explained and included to show other businesses specific examples of how to achieve cost savings, where available.
- e. Bluegrass Greensource will work with LFUCG to print copies of the newsletter, and any business/organization highlighted in the newsletter will receive enough copies to hand out to employees. All businesses will receive an electronic copy of the newsletter as well as a link to the newsletter on our website for their use.

2. Work with the Chamber of Commerce, Downtown Lexington Corporation, business associations and other business groups in developing sustainable recycling programs for their business members.

- a. **Attend association meetings and make presentations as needed.**
 - i. Bluegrass Greensource is currently a member of Commerce Lexington, Downtown Lexington Corporation, Kentucky EXCEL, and Local First Lexington. Through those memberships, Bluegrass Greensource has been able to successfully network and promote the LGLP program.
 - ii. In addition, Bluegrass Greensource has recently added a new board member from Commerce Lexington. Through this board member, we will expand our work with Commerce Lexington, particularly in promoting the LGLP program and the Green Business Challenge.
 - iii. Bluegrass Greensource will work with other business associations, such as the Southland Association and the North Limestone Business Association to offer presentations to large groups of businesses and employees at one time.

- iv. Bluegrass Greensource is partnering with the Downtown Development Authority and other partners including Town Branch Trail, Inc. to develop a Town Branch Water Walk.
- b. Develop close working relationships/personal contacts with these entities as a way to promote recycling programs and other programs.**
- i. Bluegrass Greensource will continue to build relationships with the member businesses of these organizations and strengthen the LiveGreenLexington Partner Program.
 - ii. By attending monthly, quarterly, or yearly membership and committee meetings, Bluegrass Greensource will build new relationships and improve existing relationships.
- c. Update educational packets - (tool kit for owners/managers).**
Bluegrass Greensource, as part of the overhaul of the LGLP program to include tiered levels for business recognition, will update and create new outreach materials accordingly.
- i. These materials will remain similar for certified businesses (and current partners).
 - ii. Outreach materials for the tiered certification will consist of scoresheets that will be used to evaluate businesses.
 - iii. Scoresheets and outreach materials will be revised and updated on a regular basis as Bluegrass Greensource receives feedback on them from businesses and LFUCG.
- d. Develop SOPs for the sustainable recycling programs.**
- i. Bluegrass Greensource has created SOPs for businesses wishing to start or expand their recycling programs as part of our management of the LGLP program. In addition, Bluegrass Greensource has developed internal SOPs for communication with LFUCG on items such as dumpster conversions, recycling dumpster education plans, and Rosie orders.
 - ii. Bluegrass Greensource will continue to update existing SOPs according to newly identified barriers and new programs that are created.
 - iii. These SOPs will be kept current by information collected from new and active business partners.
 - iv. SOPs will be displayed on Bluegrass Greensource's website when appropriate.
- e. Identify recycling needs and barriers and develop solutions to address them.**
- i. Bluegrass Greensource will use its existing relationships with businesses to report concerns and questions to LFUCG, identify recycling needs of businesses, and specific solutions to improve business recycling.
 - ii. Bluegrass Greensource will keep all relevant educational materials up to date to best service area businesses.

3. Continue assisting LiveGreenLexington businesses in their efforts to reduce waste, and increase their recycling rates.

Bluegrass Greensource will continue relationships with businesses through the LiveGreenLexington Partner Program. This will include assistance with the following:

- a. Missed collections.
- b. Waste reduction plans.
- c. Individual meetings with businesses.
- d. Waste audits.
- e. Resources, including recycling fliers, quarterly newsletters, decals, and bumper stickers.

4. Identify and enlist participation of local businesses in the LiveGreenLexington program, and revisit current partners to improve their recycling efforts and promote additional environmental initiatives. Give emphasis to businesses that are large producers of recyclable materials such as hospitals, hotels and commercial properties.

Bluegrass Greensource has worked diligently to expand business participation in the LGLP program over the past six years. As a result, we now have over 824 businesses that have joined the program.

- a. Given the high participation rate in the program, Bluegrass Greensource will now refocus efforts on maintaining relationships with partner businesses, providing them with ongoing assistance and resources, and helping to market their efforts in coordination with LFUCG.
 - i. Bluegrass Greensource will continue outreach to businesses as they open, from referrals, or as any other opportunities arise. Particular emphasis will be given to large producers of materials. Large producers will be encouraged to utilize dumpster recycling.
 - ii. More intensive marketing of current partners will drive businesses to seek out the program so that they are recognized along with their peers. Marketing will comprise strategies such as ads in publications (subject to LFUCG budgets), social media campaigns, the aforementioned standalone website, online video and other media, newsletters, columns, and other content generated by Bluegrass Greensource about the program and partners.
 - iii. Continued assistance will now encompass strategies such as annual updates with each member business, annual waste audits for partners willing to participate, annual lunch and learns or staff training sessions, and other ongoing, longitudinal efforts to increase participation in recycling and waste reduction programs, and ensure that

the businesses are successfully and appropriately separating materials.

- b.** Bluegrass Greensource will develop a tiered evaluation system modeled on the LEED program.
 - i.** All current partners in the program will automatically be converted to the lowest tier of the program – “Certified”.
 - ii.** New partners who join the program by filling out the current pledge card will similarly be categorized as “Certified”.
 - iii.** Bluegrass Greensource will develop a scorecard for evaluating businesses at the tiered levels.
 - iv.** Existing partners who wish to join the tiered program will undergo a more rigorous evaluation by Bluegrass Greensource staff using the scorecard.
 - v.** Admission to tiered levels of the program will require minimum points thresholds.
 - vi.** Promotional preference will go to those partners who opt to participate in the tiered program.
- c.** Bluegrass Greensource will promote the rebranded and tiered program with assistance from LFUCG.
 - i.** Promotion will consist of strategies such as:
 - Print advertising.
 - Media coverage.
 - Radio and/or TV advertising.
 - Stickers for participating businesses.
 - Posters.
 - Public event outreach.

5. Assist LFUCG Waste Management staff in preparing and implementing education plans for businesses that request a recycling dumpster.

- a.** Bluegrass Greensource will meet one-on-one with businesses that are interested in starting a new recycling program using a dumpster.
 - i.** A sample education plan form will be given to any business interested in the commingled recycling dumpster program (Appendix: Business Recycling / Waste Reduction 5.a.i.).
 - ii.** Supportive educational materials (recycling signs, stickers, etc.) provided by LFUCG will be distributed to businesses requesting a recycling dumpsters.
 - iii.** Businesses will receive information on starting and maintaining a successful recycling program.
 - iv.** Bluegrass Greensource will provide any and all necessary opportunities for employees and staff that are beginning or expanding their recycling program, including:
 - Presentations about recycling and waste reduction.

- Recycling fliers - hard copy and electronic copy.
- Assistance planning kickoff event for employees and staff.
- Information for internal business newsletters.
- Information for business website, including logos and branding of LFUCG program.

6. Design and implement an outreach effort targeting businesses in the downtown area to increase their participation in the city's recycling program.

- a. Beginning in 2013, Bluegrass Greensource focused significant attention in the downtown area. This focus resulted in meetings with a majority of downtown businesses and organizations and 168 partners from the downtown area.
- b. To continue to ensure that business needs are being met in downtown, Bluegrass Greensource will conduct Focus Groups made up of downtown leaders, business owners, managers, and employees to help understand and address ongoing barriers to successful recycling and other sustainability initiatives. The results of these focus groups will be reported to LFUCG. Bluegrass Greensource will work in collaboration with LFUCG to determine which issues can be addressed and help provide solutions.
- c. Bluegrass Greensource will continue to work with downtown organizations such as Downtown Lexington Corporation to recruit new businesses and promote the program.

WATER

- 1. Provide FOG training, including written materials, for employees of non-food service businesses in English and Spanish languages.**
 - a. Bluegrass Greensource will continue to provide FOG information specific to food service businesses through the LGLP program that augments information provided by LFUCG.
 - b. In addition, Bluegrass Greensource will continue to provide FOG training and resources to businesses outside the food service industry through events, presentations, and distribution of materials such as fliers and FOG lids.
 - c. Bluegrass Greensource will continue this outreach, with a particular emphasis on non-food service businesses through means such as employee fairs, lunch and learns, and other events.
 - d. Bluegrass Greensource will work with LFUCG to address FOG education among food trucks and mobile food operations.

- 2. Educate businesses on LFUCG requirements for the elimination of illicit connections to the sanitary sewer and the sump pump re-direct program (Code of Ordinances Chapter 16, Article XI).**
 - a. As part of normal outreach to businesses, Bluegrass Greensource will include information on both illegal connections to the sanitary sewer and the sump pump re-direct program in any water presentations where deemed applicable.
 - b. Bluegrass Greensource will include a session at the annual Go Green, Save Green workshop with information about sanitary sewer issues as they relate to businesses.

- 3. Educate businesses on the optimal way to maintain private sanitary sewer lateral lines such as the impact that trees have to damaging the service lateral, the need to conduct preventative maintenance to the privately owned part of the system, and the importance of having clean-out caps.**
 - a. As part of normal outreach to businesses, Bluegrass Greensource will include information on proper care and maintenance of privately owned sanitary sewer lateral lines where deemed applicable.
 - b. Bluegrass Greensource will include a session at the annual Go Green, Save Green workshop with information about sanitary sewer issues as they relate to businesses.

- 4. Conduct resident/employee trainings and education on pollution prevention and water conservation.**
 - a. Bluegrass Greensource has conducted employee trainings on pollution prevention and water conservation through the LGLP program.

- b. Bluegrass Greensource will continue to provide these services to businesses as requested and encourage businesses to provide information on these topics to employees on a regular basis.
- c. Bluegrass Greensource will work with LFUCG to identify high risk commercial and industrial facilities that would benefit from employee training on water quality. Bluegrass Greensource will encourage these businesses to participate voluntarily in water quality programs and presentations for their employees.
- d. As part of normal outreach to businesses, Bluegrass Greensource will continue to offer information on business water quality initiatives.
- e. Bluegrass Greensource will identify LGLP partners who joined the program prior to the water quality component and encourage them to participate as water partners, when their participation is possible.

5. Help entities identify cost savings through water best management practices.

- a. Bluegrass Greensource will continue to provide information to businesses on the cost savings inherent in sustainability initiatives, including water conservation and BMPs.
- b. Bluegrass Greensource will continue to provide this information to businesses, on topics such as water efficient interior fixtures, detecting leaks, sub-metering, efficient irrigation, and behavioral changes, among others.
- c. Information will be distributed through packets available to businesses, and through Bluegrass Greensource's website.

6. Work with maintenance crews to develop and implement Best Management Practices (BMPs) to prevent water pollution in areas such as lawn care, litter abatement, pet waste, household hazardous waste disposal, vehicle maintenance, surface cleaning (including parking lots), wash water disposal, and proper mulch application and storage.

- a. Bluegrass Greensource will continue to provide information on BMPs to all businesses it has met with, including maintenance staff and grounds crews.
- b. In addition, Bluegrass Greensource will continue to provide information on, and encourage participation in, the city's Stormwater Incentive Grant Program. This information includes background on the program, case studies, stormwater BMPs that have been funded, and contact information for the grants manager.
- c. Bluegrass Greensource will work with LFUCG to identify high risk market segments and tailor outreach to those businesses on topics pertinent to them.

- d. Bluegrass Greensource will continue to work with businesses to provide information on the Stormwater Incentive Grant Program.
- e. Bluegrass Greensource will continue to provide information to all businesses on the following subjects:
 - i. Lawn care:
 - Grass clipping and leaf mulching, yard waste disposal options, limiting the use of certain types of pesticides and fertilizers that are especially harmful to waterways.
 - ii. Litter abatement:
 - Anti-litter, anti-cigarette butt litter, litter clean-ups, Report a Litter Bug.
 - iii. Pet waste disposal.
 - iv. Household hazardous waste disposal.
 - v. Vehicle maintenance:
 - Discarded vehicle parts, including tires.
 - Motor oil and other vehicle fluid disposal.
 - vi. Surface Cleaning:
 - Parking lot cleaning techniques to prevent water pollution, timing, proper wash water disposal.
 - Cleaning techniques and products to prevent water pollution.
 - vii. Proper mulch application and storage.
 - viii. Using water efficient landscaping and water systems:
 - Landscape watering and managing in-ground sprinkler systems.
 - Low-maintenance tree and plant selection.
 - ix. Urban forestry related to water quality:
 - How trees reduce stormwater runoff.
 - x. Landscape selection and maintenance information:
 - Tree and shrub selection.
 - Planting methods.
 - Plant and tree health, pruning, and maintenance.
- f. Bluegrass Greensource will work with property management groups that maintain grounds at multiple locations to encourage the use of BMPs related to landscape management, parking lot cleaning and maintenance, and other activities.

7. Organize volunteer groups to stencil storm drains surrounding participating businesses.

- a. Bluegrass Greensource currently organizes storm drain stenciling events with businesses participating in the LGLP program.
- b. Bluegrass Greensource will identify volunteer groups within current partner businesses that are willing to stencil storm drains on their own business property or in nearby commercial areas or neighborhoods.

- c. Bluegrass Greensource will continue to plan and coordinate storm drain stenciling events and will encourage employee and resident participation.
- d. Bluegrass Greensource will also continue to utilize its current volunteer list to recruit other volunteers that are willing to assist with storm drain stenciling events.
- e. Bluegrass Greensource will work with LFUCG to identify target areas for priority stenciling.

8. Encourage businesses to participate litter cleanups.

- a. Bluegrass Greensource currently organizes dozens of litter cleanup events per year, and encourages business participation in these events.
- b. Bluegrass Greensource will continue to identify volunteer groups within current partner businesses that are willing to participate in litter cleanups.
- c. Bluegrass Greensource will continue to plan and coordinate litter cleanups that include participation from businesses.
- d. Bluegrass Greensource will continue to utilize its current volunteer list to recruit other volunteers willing to assist with litter clean ups.

9. Promote programs through media outlets.

- a. Bluegrass Greensource currently works with LFUCG to promote businesses participating in the LGLP program through ad buys in local media, social media promotion, newsletters, articles, and other means.
- b. As part of the effort to focus more intently on promotion of current partners and recruitment to the program through advertising, Bluegrass Greensource, with support from LFCUG, will promote through means such as:
 - i. Full page spreads in print media listing partners.
 - ii. Smaller ads focusing on partners in the upper tiers of the program.
 - iii. Radio spots driving traffic to the website or giving 30-second case studies.
 - iv. Quarterly or more frequent columns in Business Lexington.
 - v. Articles on select businesses in city residential newsletter.
 - vi. Short video profiles of partner businesses.
 - vii. Press releases and advisories.
 - viii. Regular articles for KY Forward.
 - ix. Social media.
 - x. Monthly e-newsletter to LGLP partner list.
- c. Bluegrass Greensource will continue to work with Clear Channel Radio's 'In Touch' and GTV3 to promote and recognize water education efforts in Lexington.

ENERGY

1. Assist businesses with energy audits as requested.

- a.** Bluegrass Greensource will provide informational resources for businesses for energy efficiency technologies, practices, incentives, and energy audits.
 - i.** These resources will be available on the Bluegrass Greensource website and the link will be shared regularly via social media and in personal communication.
 - ii.** Bluegrass Greensource will provide energy audit kits for businesses to borrow, and will assist businesses in using kits and assessing information.
- b.** Energy resources available on displays at outreach events will include:
 - i.** Kentucky Utilities (KU), Columbia Gas, and Blue Grass Energy incentive programs and other special program information.
 - ii.** Information about KU, Columbia Gas, and Blue Grass Energy energy audits.
 - iii.** General energy audit information from contractors.
 - iv.** Maintenance tips to lower energy use.
 - v.** A lighting display illustrating foot-candle to energy use relationship for various types of bulbs.
 - vi.** Solar and wind energy displays.
 - vii.** Efficient building models.
 - viii.** Energy audit kit information.

2. Increase Energy Partner Program participation with 25 new participants per year split among businesses and apartments.

Bluegrass Greensource currently works with over 824 businesses through the LiveGreenLexington Partner program, and will increase the Energy Partner participation.

- a.** Bluegrass Greensource will promote energy efficiency and cost savings in conjunction with water quality/efficiency and waste reduction.
- b.** Bluegrass Greensource will make presentations to businesses that address sustainability and energy efficiency information, including:
 - i.** Home maintenance tips to reduce energy usage.
 - ii.** Purchasing recommendations for appliances and lighting.
 - iii.** Behavioral change recommendations such as using power strips, adjusting thermostats, and cleaning refrigerator coils.
- c.** Bluegrass Greensource will maintain and update energy efficiency information on its website, comprised of:
 - i.** Energy audit resources.
 - ii.** Tax credit information.

- iii.** Incentives through Kentucky Utilities, Columbia Gas and Bluegrass Energy.
- iv.** Energy tracking software links.
- v.** Demand conservation program information.
- vi.** Information about electronic recycling for old equipment and appliances.
- vii.** Tip sheets developed for businesses.
- viii.** Resources for additional material and education.

D. General Public and Residential

RECYCLING/WASTE REDUCTION

- 1. Work with LFUCG to carry out and aid in management of potential residential recycling outreach programs.**
 - a. Bluegrass Greensource will research case studies of other cities with high rates of recycling and develop new outreach programs modeled on other successful efforts in cities of similar size.
 - b. Bluegrass Greensource will assist LFUCG in developing outreach materials and designing marketing campaigns to increase awareness of and participation in city recycling programs, including curbside commingled recycling, e-waste, and yard waste.
 - c. Bluegrass Greensource will continue to present to neighborhood associations and outreach events about recycling programs.
 - d. Bluegrass Greensource will provide information to residents at community events through means such as distribution of fliers and other LFUCG-provided materials, educational presentations, and passive displays.
 - e. Bluegrass Greensource will assist with the planning and execution of recycling at public events.

- 2. Help identify barriers to increasing residential recycling rates.**
 - a. Bluegrass Greensource will utilize existing relationships with neighborhood associations, non-profit neighborhood development groups, businesses, and individuals to organize focus groups to identify barriers across neighborhoods.
 - b. Bluegrass Greensource will create a survey distributed to a random sample of Lexington residents that identifies barriers to recycling.
 - c. Bluegrass Greensource will create and manage an online survey to assess the barriers to recycling for residents.
 - d. Bluegrass Greensource will collate all findings and deliver a report on barriers to recycling to the Division of Waste Management.

- 3. Assist in general outreach efforts for ongoing residential recycling initiatives and programs.**
 - a. Bluegrass Greensource will provide assistance to LFUCG in current and ongoing residential recycling outreach efforts as requested by the Division of Waste Management.
 - b. Bluegrass Greensource will review existing materials, and make recommendations for improvements or additional content.

WATER

Bluegrass Greensource has worked with the general public for over a decade through public events, outreach programs, and workshops. Our work across Fayette County has impacted thousands of individuals across all demographics. We have partnered with other organizations in the Cane Run and Wolf Run watersheds to provide innovative and creative solutions to public outreach.

1. Participate in events and opportunities to reach the general public and provide information on daily activities that impact water quality including lawn care, rain barrels, rain gardens, pet waste, and household hazardous waste disposal.

- a. Bluegrass Greensource has conducted outreach to the general public through neighborhood association meetings, presentations, and public events.
- b. Bluegrass Greensource will continue to utilize ties with neighborhood associations, Urban County Council members, and community groups to connect with residents and teach them about their role in addressing water quality issues.
- c. Bluegrass Greensource has an ongoing, annual presence at community events such as:
 - i. GreenFest.
 - ii. Reforest the Bluegrass.
 - iii. Dog Paddle.
 - iv. Arbor Day.
 - v. Downtown Trash Bash.
 - vi. Bluegrass Birding Festival.
 - vii. Founders Day at McConnell Springs.
 - viii. Southland Street Fair.
 - ix. District Science Fair.
 - x. Countdown to Kindergarten.
 - xi. Watershed festivals and stream cleanups.
 - xii. Rain garden tours.
- d. Bluegrass Greensource has created display materials to be used at all outreach events educating the public about water quality issues. These materials will continue to be added to and revised as needed to target specific issues of concern to LFUCG.
- e. Bluegrass Greensource will maintain membership in the Wolf Run Watershed Council, the Cane Run Watershed Council, and any other water stewardship group deemed appropriate.
- f. Bluegrass Greensource has developed watershed outreach plans for the Cane Run and Wolf Run watersheds that focus on coordinated education to businesses, schools, and the general public.
- g. Bluegrass Greensource will continue to work under these plans in the Cane Run and Wolf Run watersheds.

- h.** Bluegrass Greensource will develop a similar outreach plan for the Town Branch watershed.
- i.** Bluegrass Greensource will develop urban forestry materials for the general public related to stormwater runoff and water quality.
 - i.** Riparian area tree planting.
 - ii.** Invasive species removal.
 - iii.** Native tree selection, planting, and maintenance.
 - iv.** Replacement tree selection after Emerald Ash Borer mortality.

2. Create and conduct a residential stormwater audit program to assist homeowners in identifying ways residents can reduce stormwater runoff pollution.

- a.** Bluegrass Greensource has explored the feasibility of a residential stormwater audit pilot program in collaboration with LFUCG.
- b.** Bluegrass Greensource will conduct activities such as Rain Garden Tours and Stormwater BMP Tours to educate residents about strategies to address water quality and quantity issues at their homes and in their neighborhoods.
- c.** Bluegrass Greensource will partner with one neighborhood association per year to offer, on a limited basis:
 - i.** An on-site audit of residences requesting one.
 - ii.** Recommendations for improvements including:
 - Planting shade trees.
 - Planting native herbaceous and shrub species.
 - Installing rain barrels.
 - Installing a rain garden.
 - Installing pervious pavement/reducing impervious surface.
 - Disconnecting sump pump and rain gutter downspouts.
 - Creating riparian buffers.
- d.** Provide a list of local companies participating in the LGLP program that offer the recommended services.

3. Provide educational opportunities for neighborhood associations, apartment complexes and businesses regarding riparian buffers.

- a.** Bluegrass Greensource will include information on riparian buffers in all presentations to neighborhood associations, apartment complexes, and businesses.
- b.** Bluegrass Greensource will provide information on tree planting and species selection for riparian buffers.
- c.** As part of any tour or event where opportunity allows, Bluegrass Greensource will include model riparian areas and demonstrate proper maintenance of riparian buffers.

- 4. Provide information to homeowners regarding the illicit sanitary sewer connection and sump pump re-direct programs (Code of Ordinance Chapter 16, Article XI) and the use of rain barrels and rain gardens.**
 - a. Bluegrass Greensource will continue to include information on sanitary sewer and sump pump disconnects lateral line maintenance, rain gardens, and rain barrels in all presentations to residents and neighborhood associations.
 - b. Information on illicit connections and the sump pump re-direct program will be included in display materials at community events, along with materials on rain barrels and rain gardens as an appropriate residential-scale BMP.
 - c. Bluegrass Greensource will include information on sanitary sewer connections and maintenance in organizational newsletter.

- 5. Educate the public about proper FOG disposal and sanitary sewer maintenance, specifically in neighborhoods designated as priority areas (as determined by LFUCG).**
 - a. Bluegrass Greensource has distributed over 3,000 FOG lids and FOG doorhangers to single-family residential units in priority areas near city infrastructure projects in the past two years.
 - b. In addition, Bluegrass Greensource currently distributes FOG information and lids to over 5,000 apartment units annually through property management companies.
 - c. Bluegrass Greensource will continue to distribute FOG information and other items provided by LFUCG to both single-family and multi-family residences.
 - d. Bluegrass Greensource will include information on FOG and proper sanitary sewer maintenance in presentations to neighborhood associations and community groups, and in displays at public events.
 - e. Bluegrass Greensource staff will also include information about FOG at school events that with high levels of parent attendance such as Science Night.

ENERGY EFFICIENCY

1. As opportunities arise, promote energy efficiency concurrently with water, waste and litter efforts.

- a.** Over the past six years, and three years as part of the LGLP, Bluegrass Greensource has met with the general public, has made presentations, attended public outreach events, and will continue to provide information on energy efficiency and cost savings.
- b.** Bluegrass Greensource will continue to develop relationships with partners, and will provide assistance to the general public concurrently with water, waste and litter efforts. Information that comprehensively addresses sustainability will include:
 - i.** Individual meetings with businesses.
 - ii.** Energy audits (both professional audits, and home energy audits).
 - iii.** Home maintenance tips to reduce energy usage.
 - iv.** Purchasing recommendations for appliances and lighting.
 - v.** Behavioral change recommendations such as using power strips, adjusting thermostats, cleaning refrigerator coils.
 - vi.** Resources, including recycling fliers, quarterly newsletters, decals, and bumper stickers.
- c.** Presentations will be offered to groups such as:
 - i.** Fayette County Neighborhood Council.
 - ii.** Neighborhood Associations.
 - iii.** Homeowner Associations.
 - iv.** Lexington Public Libraries.
 - v.** Commerce Lexington.
 - vi.** The Southland Association.
 - vii.** Downtown Lexington Corporation.
 - viii.** Downtown Development Authority.
 - ix.** Lexington Housing Authority.
 - x.** Community Action Council.

2. Maintain a website presence to educate Fayette County residents and organizations on energy efficiency.

- a.** Bluegrass Greensource will maintain and update energy efficiency information on its website, such as:
 - i.** Energy audit resources.
 - ii.** Tax credit information.
 - iii.** Energy tracking software links.
 - iv.** Pledge forms for behavior changes.
 - v.** Demand conservation program information.
 - vi.** Information about electronic recycling for old equipment and appliances.
 - vii.** Tip sheets for homeowners and businesses.
 - viii.** Resources for further materials and education.

- b. Energy displays and printed materials will include a link to the energy section of Bluegrass Greensource's website.
- 3. **Distribute printed materials to Fayette County residents and organizations.**

Bluegrass Greensource will offer educational material at meetings, during presentations, outreach events, and large community events such as:

 - a. Go Green, Save Green Workshop.
 - b. Greater Lexington Apartment Association General Membership Meetings.
 - c. Blue Grass Energy Annual Meeting.
 - d. Arbor Day at the Arboretum.
 - e. Reforest the Bluegrass.
 - f. Midwest Energy Star Conference.
 - g. Central Kentucky Home and Garden Show.
 - h. Neighborhood events.
- 4. **Promote availability of resources to include utility programs, energy audits, self audit kits, tax rebates and incentives, and similar mechanisms.**
 - a. Bluegrass Greensource will maintain a list of resources for energy efficiency technologies, practices, and incentives. This list will be available on the Bluegrass Greensource website and information will be shared regularly via social media and in personal communication.
 - b. Bluegrass Greensource currently maintains energy audit kits at all Lexington Public Library branches, and will continue to promote their presence and encourage check-out of those materials.
 - c. Energy resources available on displays at outreach events will include:
 - i. Kentucky Utilities (KU), Columbia Gas, and Blue Grass Energy incentive programs and other special program information.
 - ii. Information about KU, Columbia Gas, and Blue Grass Energy energy audits.
 - iii. General energy audit information from contractors.
 - iv. Maintenance tips to lower energy use.
 - v. A lighting display illustrating foot-candle to energy use relationship for various types of bulbs.
 - vi. Solar and wind energy displays.
 - vii. Efficient building models.
 - viii. Energy audit kit information.
- 5. **Identify and use other low cost and no cost opportunities to provide education on energy efficiency and to increase community awareness in this area.**

- a. Bluegrass Greensource will expand outreach efforts including displays and presentations to small and large groups on energy efficiency, and will provide information for adopting new approaches and technologies. Activities include:
 - i. Participate in community outreach events with static and hands-on displays.
 - ii. Provide links to energy efficiency resources for community members.
 - iii. Develop new educational materials to assist community members.
- b. Presentations and displays will be targeted at the following events:
 - i. Central Kentucky Home and Garden Show.
 - ii. Kentucky Nonprofit Network events.
 - iii. Staff health fairs throughout Lexington.
 - iv. Local workshops and neighborhood events.

6. Participate in implementing Lexington's Empower Lexington energy plan, designed to increase community energy efficiency. This may involve service on stakeholder groups and presentations to the Urban County Council.

- a. Bluegrass Greensource has reviewed Lexington's Empower Lexington energy plan, and will assist in promoting energy conservation in the residential, industrial/commercial/institutional, land use/food/agriculture, transportation and waste sectors.
- b. Bluegrass Greensource's Executive Director currently is co-chair of the Empower Lexington Steering Committee.

Project 2. Anti-Litter Campaign

A. Annually critique current adopt-a-spots and identify new adopt-a-spot areas as well as developing criteria for payment to non-profits for cleanup of adopt-a-spots.

- 1.** Bluegrass Greensource has worked for the past 9 years with community groups, businesses, apartments, Scout and youth groups, and neighborhood associations to increase litter awareness, litter free events, and community involvement.
- 2.** Bluegrass Greensource has worked with counties in its service area that have similar payment programs and have developed criteria for a nonprofit cleanup program, allowing us to use resources and ideas that work in Central Kentucky.
- 3.** Bluegrass Greensource has incorporated the Adopt-a-Spot program into the LiveGreenLexington Water Partner program as a way for Partners to engage in anti-litter activities and further improve water quality.
 - a.** The litter portion of the Water Partner program includes the following:
 - i.** Adopt-a-Spot participation, where business can agree to monitor and maintain an Adopt-a-Spot location by visiting the location and planning annual cleanups.
 - ii.** Posting a Litter-Free Zone sign on their property to let other businesses and patrons know that they are maintaining a litter-free zone.
 - iii.** Pocket ashtrays and car ashtrays given to businesses interested in handing them out to employees.
 - b.** Since all the Adopt-a-Spot locations are contracted out by local groups, Bluegrass Greensource will encourage businesses and community groups to make a location near their office their own Adopt-a-Spot.

B. Coordinate with LFUCG and the Keep Lexington Beautiful Commission to improve the litter reporting program, litter awareness, and cleanup events.

1. Bluegrass Greensource will continue to serve on the Keep Lexington Beautiful Commission, and will attend meetings, offering advice, coordination and assistance as it relates to the litter reporting program and cleanup events.
 - a. Bluegrass Greensource will help the Keep Lexington Beautiful Commission identify project areas.
 - b. Bluegrass Greensource will continue to assist the Keep Lexington Beautiful Commission with grants that the commission has applied for.
2. Bluegrass Greensource will continue to provide LFUCG Division of Police with litter reports received in Fayette County from the hotline.
3. Bluegrass Greensource will engage in litter free event promotion.
 - a. Bluegrass Greensource will continue to work with existing events in the city (Mayfest, Oktoberfest, Arbor Day at the Arboretum, Reforest the Bluegrass, and other LFUCG events, etc.) to develop them as 'litter-free events'.
 - b. Bluegrass Greensource has created a 'litter-free event' check-out kit, available to citizens and community groups. The kit includes:
 - i. Litter grabbers.
 - ii. Gloves.
 - iii. Recycling and landfill bound waste bags.
 - iv. 'Litter-free event' banners.
 - v. Pocket ashtrays.
 - vi. Reflective vests.
4. Bluegrass Greensource will continue to organize Great American Cleanup events with community groups and schools.

C. Provide assistance with volunteers, public education, and planning of special events such as watershed festivals, etc. Assist schools, businesses and non-profits in scheduling litter cleanups.

1. Bluegrass Greensource will continue to utilize its list of more than 200 volunteers to drive participation in and support for cleanups and anti-litter activities in Fayette County. In addition to its existing list, Bluegrass Greensource will continue to utilize its accounts with volunteer recruiting sites, such as the United Way and Volunteer Match to draw new volunteers for cleanup events.
2. Bluegrass Greensource will continue to be available to work with volunteer organizations to assist in the litter cleanup planning and be available for environmental education outreach at each event.
3. Bluegrass Greensource will have a presence at all cleanup and anti-litter events, providing public education geared toward both adults and children. This will include informational booths targeted to adults and interactive educational activities and games to inform and engage children.
4. Bluegrass Greensource will continue to assist groups in organizing litter-free events.
5. Bluegrass Greensource will continue to assist LFUCG with the planning of local watershed festivals in watersheds such as Cane Run and Wolf Run.

D. Solicit involvement of community groups and partnerships to engage in litter awareness and cleanup activities.

1. Bluegrass Greensource will continue working with neighborhood associations, homeowners associations, and other community groups to promote litter cleanups in their area and encourage participation.
2. Bluegrass Greensource will develop a recognition program for community groups in Lexington, such as youth groups, fraternities/sororities, young professionals' groups, Rotary Club, etc. that provide a minimum number of volunteers each year. These groups will be promoted in various ways including on Bluegrass Greensource's website.
3. Bluegrass Greensource will continue to maintain its relationship with LFUCG's Corridors Committee and the Greenspace Commission providing them with any necessary assistance or guidance related to litter abatement activities.
4. Bluegrass Greensource will partner with local non-profits and other community groups to identify and prioritize litter cleanup sites and plan cleanup events.

E. Incorporate litter awareness and education in school recycling curriculum.

1. Bluegrass Greensource will prepare “welcome back” packets for Fayette County School staff. These packets will contain such items as:
 - a. Checklist of available waste reduction/litter activities.
 - b. Contact information for Bluegrass Greensource educators.
 - c. Promotional items such as bookmarks and notepads.
 - d. Alignment of activities to Kentucky Core Academic Standards (Kentucky Core Academic Standards) and Fayette County Curriculum Maps.
2. In the past nine year Bluegrass Greensource has conducted:
 - a. 1,066 classroom litter activities.
 - b. 103 classroom litter projects.
 - c. 114 Great American Cleanups.
3. Bluegrass Greensource will continue to develop interactive Kentucky Core Academic Standards aligned litter activities. These activities will also be aligned to Fayette County Curriculum Maps.
4. Bluegrass Greensource will continue to conduct classroom litter projects and introduce a litter art project.
5. Bluegrass Greensource will continue to organize and assist with community and K – 12 Great American Cleanups.

Project 3. Zero-Waste Initiative

A. Work with LFUCG Waste Management staff in planning and implementing a zero waste neighborhood pilot program, including educational and outreach activities.

- 1.** Bluegrass Greensource, with assistance from LFUCG, worked with approximately 400 households in the Southland Drive area to develop a food waste collection pilot program. Bluegrass Greensource developed training presentations, informational fliers, and surveys for all the homes in the participating area.
- 2.** Bluegrass Greensource will work with LFUCG to select new areas for piloting food waste collection programs and other zero-waste initiatives.
- 3.** Using data and feedback collected during the Southland Drive pilot program, Bluegrass Greensource will develop new and updated materials for use in outreach as part of any new LFUCG food waste collection or zero-waste initiative.
- 4.** Outreach to residents in any selected pilot neighborhood will include materials such as:
 - a.** Direct mailers, created in collaboration with LFUCG, and sent by LFUCG to all residents eligible for the program that include the following information:
 - i.** Description of the program.
 - ii.** Dates of orientation workshops.
 - iii.** Contact information for LFUCG and Bluegrass Greensource.
 - iv.** Information about ordering a Rosie or Lenny.
 - v.** Link to registration and additional program information.
 - b.** Orientation workshops to be held within the neighborhood to train residents to properly participate in the program.
 - c.** Door-to-door outreach and door hangers prior to the workshop.
 - d.** Delivery of Grubbies to all participating homes in the pilot area.
 - e.** Page on Bluegrass Greensource website that includes all pertinent information about pilot for residents.
 - f.** Surveys and other means of assessing program success and barriers.

B. Research and identify BMPs for city wide waste reduction programs, including food waste collection, reduce and reuse programs, increased recycling rates, incentives programs and zero waste initiatives.

1. Bluegrass Greensource has researched BMPs for a number of zero-waste programs, particularly zero-waste events, and will continue to find examples of successful programs in communities similar to Lexington.
2. Bluegrass Greensource currently supports zero-waste events through a Zero Waste Event Guide, a Zero Waste Volunteer Guide, and a Zero Waste Team.
 - a. Bluegrass Greensource has partnered with Seedleaf to pilot zero-waste at the NoLi CDC Night Market.
 - b. Bluegrass Greensource has supported pilot zero-waste efforts at CRAVE and at the Moontower Festival.
3. Bluegrass Greensource will continue to support zero-waste events, and will actively recruit event organizers to join the zero-waste program.
4. Bluegrass Greensource will continue to seek out opportunities to expand zero-waste programs in the city by researching BMPs in other cities, case studies, and participating in national workshops and webinars.

C. Assist LFUCG Waste Management staff in developing outreach strategies for residents, businesses and other entities, which would encourage behavior change towards a zero waste goal.

1. Bluegrass Greensource will continue to normalize zero-waste initiatives through education and presence at zero-waste events, helping residents and businesses understand the nature of zero-waste programs and composting.
2. Bluegrass Greensource will continue to work with Seedleaf through their composting partners program and help recruit potential participants in the program in the course of regular outreach to businesses.

Project 4. Green Business Challenge

Bluegrass Greensource has managed the LiveGreenLexington Games (now known as the Green Business Challenge) for four seasons. During that time, Bluegrass Greensource has tested a number of different formats for the games, and is prepared to continue the Games in partnership with LFUCG and other local organizations.

A. Promote participation in the annual Green Business Challenge to Fayette County businesses and organizations such as houses of worship, schools, etc.

1. Bluegrass Greensource will continue the current management of the ICLEI-funded Green Business Challenge through October 2015.
2. Bluegrass Greensource will work to continue promotional partnerships such as the weekly leaderboard in the Lexington Herald Leader with local media organizations.
3. Bluegrass Greensource will conduct outreach through local business associations to encourage participation in the Games.

B. Coordinate the Green Business Challenge. Coordination shall include all facets of this initiative.

1. Bluegrass Greensource will develop an advisory team of past winners and affiliated businesses to help redevelop the Games based on feedback from the Green Business Challenge and other past years.
2. Bluegrass Greensource will work with Commerce Lexington to incorporate the Games into their annual Green Business Awards.
3. Bluegrass Greensource will develop new means of interacting with Games participants through the aforementioned standalone program website.
4. Bluegrass Greensource will use the model of the GreenPSF platform to build a similar online scoring system for the games.
5. Bluegrass Greensource will host regular events that cover different Games topics and offer points for attendance.
6. Bluegrass Greensource will regularly update Games participants with current standings and information on ways to earn points.
7. Bluegrass Greensource will evaluate all participants to determine winners.

C. Provide training to participants in relevant areas such as completing scorecards, using energy tracking software, recycling, composting, green purchasing, water, litter, available resources, and best management practices. Also, provide sector specific training as necessary.

1. Bluegrass Greensource will encourage active participation in educational events for all LiveGreenLexington Games participants.
2. Bluegrass Greensource will offer presentations and trainings for individual organizations within the framework of the Games to help them earn points.
3. Bluegrass Greensource will regularly promote specific activities to encourage completion of those activities.
4. Bluegrass Greensource will encourage past winners to become primary sponsors and organizers of the Games with Bluegrass Greensource.

D. Evaluate results and determine contest winners

Bluegrass Greensource will use fair and consistent criteria to determine winners of Games.

E. Plan and host an awards recognition ceremony to recognize all participants and to honor participants that have done the most to improve the environment/reduce their environmental footprint.

1. Bluegrass Greensource has hosted four awards ceremonies, all at different locations in the community.
2. Bluegrass Greensource will continue to plan awards ceremonies to recognize winners and work to incorporate an awards ceremony into existing Commerce Lexington awards ceremonies if possible.
3. The award ceremony will also promote the new year of competition, in hopes of garnering more participants.

F. Review contest annually and suggest ways to improve the contest and increase the number of participants.

1. Bluegrass Greensource will encourage participants to offer evaluations of the program. The results of these evaluations will be used to continually improve and develop the program.
2. Bluegrass Greensource will continue to make changes to the Games as needed based on feedback from participants, partners, and LFUCG.
3. Bluegrass Greensource will maintain relationships with other participating cities in ICLEI's Green Business Challenge to continue to improve the program based on their input and innovations.

Bluegrass Greensource Budget for RFP# 23-2015

Project 1 LiveGreenLexington Partner Program			
	Hours	Rate	Total
Outreach Staff	7256	\$ 60	\$ 435,360
Project Management	452	\$ 70	\$ 31,640
Travel			\$ 5,750
Supplies	NA	NA	\$ 6,425
	Subtotal for Project 1		\$ 479,175

Project 2 Anti-Litter Program			
	Hours	Rate	Total
Outreach Staff	915	\$ 60	\$ 54,900
Project Management	120	\$ 70	\$ 8,400
Travel	NA	NA	\$ 500
Supplies	NA	NA	\$ 1,000
	Subtotal for Project 2		\$ 64,800

Project 3 Zero Waste			
	Hours	Rate	Total
Outreach Staff	525	\$ 60	\$ 31,500
Project Management	50	\$ 70	\$ 3,500
Travel	NA	NA	\$ 500
Supplies	NA	NA	\$ 500
	Subtotal for Project 3		\$ 36,000

Project 4 Green Business Challenge			
	Hours	Rate	Total
Outreach Staff	225	\$ 60	\$ 13,500
Project Management	32	\$ 70	\$ 2,240
Travel	NA	NA	\$ 250
Supplies	NA	NA	\$ 4,010
	Subtotal for Project 4		\$ 20,000
Total for Projects 1-4			\$ 599,975

Detail of Project 1 - LiveGreenLexington Partners

LGLP - Recycling			
	Hours	Rate	Total
Outreach Staff	3560	\$ 60	\$ 213,600
Project Management	150	\$ 70	\$ 10,500
Travel	NA	NA	\$ 2,500
Supplies	NA	NA	\$ 2,500
	Subtotal for Recycling		\$ 229,100

LGLP- Water			
	Hours	Rate	Total
Outreach Staff	2956	\$ 60	\$ 177,360
Project Management	185	\$ 70	\$ 12,950
Travel	NA	NA	\$ 2,500
Supplies	NA	NA	\$ 2,525
	Subtotal for Water		\$ 195,335

LGLP - FOG			
	Hours	Rate	Total
Outreach Staff	340	\$ 60	\$ 20,400
Project Management	50	\$ 70	\$ 3,500
Travel	NA	NA	\$ 250
Supplies	NA	NA	\$ 400
	Subtotal for FOG		\$ 24,550

LGLP - Energy			
	Hours	Rate	Total
Outreach Staff	400	\$ 60	\$ 24,000
Project Management	67	\$ 70	\$ 4,690
Travel	NA	NA	\$ 500
Supplies	NA	NA	\$ 1,000
	Subtotal for Energy		\$ 30,190
Total for Project 1 - LiveGreenLexington Partners			\$ 479,175

Amy Liberty Sohner

Experience

Executive Director

2006 to present Bluegrass Greensource Lexington, KY
(formally Bluegrass PRIDE)

- Establish strategic direction and plan execution of annual and long-range plans
- Develop program budget and oversee fiscal responsibility of organization
- Manage yearly budget in excess of \$1 million
- Develop, implement and promote programs related to Bluegrass Greensource's mission
- Plan, organize, direct, coordinate and evaluate the day-to-day activities
- Supervise up to 18 staff and multiple interns
- Pursue partnerships that aid BGGGS in working towards its mission
- Management of grants and contracts from federal, state and private sources
- Awards to Bluegrass Greensource:
 - Bluegrass Tomorrow Vision Award, 2014
 - LFUCG Environmental Commission Environmental Award, 2014
 - The Garden Club of KY Enrichment Award, 2013
 - Kentucky Association of Environmental Educators President's Award, 2011
 - KNN Innovative Nonprofit Award, 2010
 - Commerce Lexington Green Business Award, 2010
 - Kentucky League of Cities Enterprise City Award (with LFUCG), 2010
 - Environmental Quality Commission Earth Day Award, 2009
 - LFUCG Environmental Commission Environmental Award, 2007
 - Kentucky Association of Environmental Educators, Excellence in Education award, 2008

Program Manager/Deputy Director

2002 to 2006 Bluegrass Greensource Lexington, KY

- Develop, implement and promote programs to improve water quality, solid waste management and environmental education in Central Kentucky.
- Establish partnerships with organizations in Central Kentucky with similar goals.
- Represent BGGGS at community meetings and events in the 20 county service area.
- Administer Education and Community Grants and assist in their selection.
- Supervise part time staff, volunteers and interns.
- Organize community events and environmental education outreach activities.

Amy Liberty Sohner

Interim Conservation Education Program Leader

2001-2002 Kentucky Department of Frankfort, KY
Fish and Wildlife Resources

- Designed educational programming and interpretive displays for the Salato Wildlife Education Center.
- Conducted outreach programs for Kentucky schools and other nature centers on wildlife habitat and birds of prey.
- Led interpretive tours of the seven live animal exhibits and the three habitat areas within the education center.
- Created a walking tour for the center as well as volunteer information packets.

Education

1999 University of Kentucky Lexington, KY

- Bachelor of Science, Natural Resource Conservation and Management: Science Option
Emphasis: Resource Ecology and Wildlife Biology

1995-1996 Napier University Edinburgh, Scotland

- One-year study-abroad program

Conferences

- **Presenter:** Governor's Conference on the Environment, Lexington, KY (2006)
- **Presenter:** Non-Point source Tele-Conference, Lexington, KY (2004)
- **Presenter:** North American Association of Environmental Education, Anchorage, AK (2003)
- **Presenter:** Kentucky Science Teacher Association, Lexington, KY (2003)
- Non-Point Source and Stormwater Pollution Education Programs, Chicago, IL (2005)
- Non-Point Source Pollution Conference, Chicago, IL (2002)
- Kentucky Association of Environmental Education (2002-2007)

Affiliations

- Empower Lexington, 2009 to present, Co-chair 2012- present
- Keep Lexington Beautiful, 2009-present, Vice Chair, 2009-2012
- Bluegrass Tomorrow Board Member, 2010 to present
- Kentucky Environmental Literacy Team, 2008 to present
- Bluegrass Partnership for a Green Community, Steering Committee
- Licking River Basin Team, 2002 to present
- Kentucky River Basin Team, 2004 to present
- Kentucky Association of Environmental Education Board Member, 2004 to 2006, Vice President, 2005-2006
- Kentucky River Watershed Watch Steering Committee, 2004--2007
- Lexington Fayette Urban County Government Environmental Commission, 2003 -- 2005

P.O. Box 22782 859-321-2034
Lexington, KY 40522 amy@bgGreensource.org

- North American
Association of
Environmental Education, 2002 to present

Amy Liberty Sohner

Certifications

- Leadership Lexington Graduate (2012)
- Certified Non-formal Environmental Educator (2005)
- Certificate of Training in Fundamentals of Erosion Protection and Sediment Control (2004)
- Project Wet, Certified Facilitator (2002)
- Project Wild, Certified Facilitator (2003)
- Project Wild Aquatic, Certified Facilitator (2003)
- Project Learning Tree, Certified Facilitator (2003)
- Certified Backyard Wildlife Habitat Gardener (2001)

Maxine Rudder

4301 Hardeville Road
Lexington, Ky 40515
860-530-8834
maxine@bluegrassgreensource.com

Overview

Updated resume for years of service at Bluegrass Greensource

Education

AA in Science from Sut Bennett Junior College, London, Ky (1970)

BS in Biology with a Minor in Chemistry from Eastern Kentucky University, Richmond, Ky (1972)

High School Lifetime certification for Biology and Chemistry, Eastern Kentucky University, Richmond, Ky (1975)

M.A. Ed in Biological Science Education, Eastern Kentucky University, Richmond, Ky (1979)

Rank I from Eastern Kentucky University, Richmond, Ky (1993)

- ▶ Member Phi Theta Kappa
- ▶ Endorsement for Secondary School Principal, 7-12
- ▶ Endorsement for Supervision of Instruction, K-12
- ▶ Approval for Teaching Gifted Education

Experience

Deputy Director (2010 - Present)

Bluegrass Greensource (835 National Avenue, Lexington, Ky 40502)

- ▶ Supervise the LiveGreen Lexington Partners Program
- ▶ Supervise development of curriculum materials for the Kentucky Chapter of the Nature Conservancy
- ▶ Supervise development of curriculum materials for the Toyota Motor Manufacturing Company in Georgetown, Ky
- ▶ Member of Kentucky Association for Environmental Education
- ▶ Member of the Ky Green and Healthy Schools Advisory Committee
- ▶ Member of the Project Learning Tree, Project WET, and Project WILD Steering Committees for Kentucky
- ▶ Facilitator for Project WILD, Project Learning Tree, Project WET, Flying WILD, and Population Connections
- ▶ Member of the US Green Building Council's Green Schools Advocacy Team
- ▶ Member of the Kentucky Environmental Literacy Plan's Implementation Advisory Team
- ▶ Member of the Kentucky Environmental Education Council's Master Plan III Task Force
- ▶ Coordinate the activities of the Bluegrass Greensource County Liaisons
- ▶ Member of the Lexington-Fayette Urban County Government's Greenspace Commission

- Member of the Lexington-Fayette Urban County Government's Corridors Commission
- Responsible for developing new environmental education partnerships and programs
- Responsible for reporting/invoicing on all grants and contracts

Education Director (2004 to 2010)

Bluegrass PRIDE (name changed to Bluegrass Greensource)

- Develop curriculum
- Organize education programs
- Member of Lexington Learning Cooperative
- Developed PIP (Pride in the Parks) Activity book
- Designed educational unit of waste reduction
- Alignment and presentation of educational activities for outreach events
- Organize fieldtrips
- Organize activities for Cub Scouts, Boy Scouts, and Girl Scouts
- Developed the solid waste inventory for the Kentucky Green and Healthy Schools Program
- Developed the Environmental Education program for Toyota Motor Manufacturing of Kentucky

Adjunct Faculty Member (2005-2007)

Bluegrass Community and Technical College (formerly Lexington Community College), Cooper Drive
Lexington, Ky

- Introduction to Biology instructor
- Human Ecology instructor
- Anatomy and Physiology I instructor
- Anatomy and Physiology II instructor

Adjunct Faculty Member (1990-2005)

Somerset Community College, Laurel County Campus, London, Ky

- Same courses as listed above

Adjunct Faculty Member (2002-2004)

Eastern Kentucky University, Richmond, Ky

- Human Anatomy instructor

Director (2000-2004)

Bentley Alternative School, London, Ky

Teacher (1976-2000)

Laurel County Board of Education, London, Ky

- London Junior High
- Laurel County Junior High
- South Laurel High School

2014

- ▶ **Management skills**
 - ▶ **Good communication skills**
 - ▶ **Works well in a team setting**
 - ▶ **Organized**
 - ▶ **Self motivated**
-

Schuyler Warren

264 Castlewood Dr., Lexington, KY 40505 • 859.629.1209 • jetglue@gmail.com

Education

Master of Landscape Architecture

Master of Community and Regional Planning

Certificate in Ecological Design

University of Oregon, Eugene, OR

December 2011

Bachelor of Arts in Chemistry, minor in Mathematics

University of Kentucky, Lexington, KY

May 2001

Experience

Outreach Specialist – Bluegrass Greensource

Lexington, KY

January 2013 – present

- Provide consulting and assistance to businesses developing sustainability plans
- Develop employee training and education materials on recycling, water quality, energy efficiency, and litter
- Deliver presentations to management and employees on sustainability best practices
- Research and write newsletter articles to promote businesses engaged in green efforts
- Provide material support for businesses implementing recycling programs
- Create sustainability signage and outreach materials for public events
- Perform waste audits for businesses, from small shops to large manufacturing facilities
- Developed zero-waste event manual and volunteer-driven zero-waste event program
- Implemented data-tracking program for business waste-reduction activities
- Coordinate educational activities around 319-designated impaired urban streams
- Implemented local design competition to re-imagine storm drain iconography

Adjunct Instructor – Department of Landscape Architecture

University of Kentucky, Lexington, KY

August 2012 – December 2012

Co-taught fourth-year undergraduate studio focused on urban design issues.

Graduate Research Fellow – Nico Larco, Principal Investigator

University of Oregon, Eugene, OR

April 2010 – December 2011

Performed research, analysis, and writing for two grant-funded studies on bicyclist activity in suburban environments and assessment of typical GIS network representations.

Intern – City of Eugene Transportation Planning

Eugene, OR

June 2011 – October 2011

Performed research for update to Transportation System Plan. Updated bicycle counting program. Organized the first-ever Ciclovia event in Eugene. Worked with multiple city agencies, private business, volunteers, and event participants.

Experience - continued

Researcher – Community Planning Workshop

University of Oregon, Eugene, OR

January 2010 – June 2010

Worked with interdisciplinary team to perform market analysis of the local food economy of Lane County, Oregon under an Economic Development Agency grant. Final report included proposals for economic development opportunities in the supply chain of locally produced foods. Won 2011 AICP Student Project Award for Applied Research.

Intern – Lane Council of Governments

Eugene, OR

June 2009 – October 2009

Used ArcGIS software to perform analysis of pedestrian networks and create maps for 5-year NIH-funded study of the correlation between the form of the pedestrian environment and food availability and the food environment with childhood obesity.

Graduate Teaching Fellow

University of Oregon, Eugene, OR

October 2008 – March 2010

- *History of Landscape Architecture*
- *Digital Media*
- *Land Analysis*

Data and Technology Specialist – Whole Foods Market

Portland, OR

April 2002 – September 2006

Managed 60,000 item database for point of sale, inventory, and fiscal reporting usage. Maintained store systems. Provided technical support and training for over 150 employees.

Skills

Public speaking and presentation

Facilitation of collaborative work and multi-disciplinary teams

Design: AutoCAD and Sketchup

Spatial Analysis: ArcGIS

Graphics: Adobe Photoshop, Illustrator, and Indesign

Productivity: Outlook, Word, Excel, Powerpoint, and Publisher

Platforms: Mac and Windows

Activities

Board Member – Town Branch Trail, Inc.

Serve as board member of organization dedicated to creating bicycle and pedestrian trail along a historic waterway in the heart of Lexington, Kentucky

Board Member – Castlewood Neighborhood Association

Treasurer – provided assistance in writing neighborhood sustainability grant

Member – Wolf Run Watershed Council

Member – Cane Run Watershed Council

Member – American Society of Landscape Architects

Member – American Planning Association

BRIDGET ABERNATHY

208 East Bell Court Lexington, KY 40508
859.327.7257 • bridgetabernathy33@gmail.com

PROFESSIONAL SUMMARY

16 years of experience promoting conservation and sustainability in Kentucky through community outreach and assistance, conservation/natural resource assessment, management, implementation and monitoring, research, developing and coordinating public programs, and collaborating with other conservation organizations throughout the region.

EXPERIENCE

Outreach Specialist, Bluegrass Greensource, Lexington, Kentucky (February 2015 – present)

- Administer the LiveGreenLexington Partner program. Work with businesses, apartments, and community members on sustainability planning, recruiting new partners to the program, and providing assistance to help contribute toward more sustainable practices in the region.
- Manage the Kentucky Division of Water's 319 Septic Repair program to improve water quality in the Dix River Watershed. Oversee cost-share assistance and conduct workshops.
- Promote programs, write articles and newsletters, organize workshops, festivals and events, assist with grant writing, develop and maintain partnerships, and collaborate with cooperators.
- Coordinate the Urban Forest Initiative Education and Outreach committee.

Forester, Stewardship Program, Kentucky Division of Forestry, North Central Region, Frankfort, Kentucky (November 2002 – present)

- Provided stewardship assistance to Inner and Outer Bluegrass Region private landowners through consultation, land assessment, implementation, monitoring of land management activities, and urban forestry support.
- Developed and wrote management plans and technical reports for landowners, special project areas, parks, city and state-owned property. Analyzed and organized property data for management plans, including information on ownership, property boundaries, focus areas, designation of plan implementation areas, and monitoring of activities in a seven-county area of the Bluegrass Region.
- Cooperated with other city, county, state, and federal agencies and organizations to help communities acquire information, cost-share funds, and special designations for various conservation, management, and protection practices.
- Cultivated relationships with the public and local partners to create environmental awareness, coordinated and promoted public educational and outreach events, field days, demonstration areas, hikes, and led volunteer groups.
- Collaborated with other state and federal agencies, city governments, non-profit organizations, universities and local businesses on conservation-related projects, research and monitoring, landowner education programs, workshops, and meetings.
- Contributed to newsletters and annual reports, edited in-house writing for publications and educational materials, managed program databases, prepared and gave presentations, maintained records, and assisted staff with related programs.

Forestry Program Specialist, Kentucky Division of Forestry, Kentucky Interagency Coordination Center/Daniel Boone National Forest, Winchester, Kentucky (October 2001 – November 2002)

- Served as liaison between the Kentucky Division of Forestry and the U.S. Forest Service on fire-related programs.
- Coordinated and conducted interagency training sessions, provided support to Daniel Boone National Forest, managed databases and prepared program grant materials.

Forestry Specialist, Mountain Association for Community Economic Development (MACED), Berea, Kentucky (April 2000 – September 2001)

- Worked with the public to promote stewardship and natural resource conservation.
- Organized public outreach efforts and meetings for the Kentucky Woodland Owners Association.

- Prepared reports and conference papers and wrote grant proposals.
- Established contacts and relationships with landowners, state and federal agencies, organizations and individuals working on natural resource issues in the region.

Research Consultant, Resource Data, and Housing and Community Insight, Asheville, North Carolina (June 1999 – March 2000)

- Collected and analyzed ecological and historical data for the Cane Creek watershed restoration study in Buncombe County, North Carolina.
- Utilized GIS to locate and target landowners in the Cane Creek watershed.
- Conducted interviews with private landowners in the study area, analyzed data and wrote portions of the technical report for the study.
- Carried out community development research in a four-county area in western North Carolina, statistically analyzed data and prepared materials for publications.

Forestry Research Technician, University of Kentucky Department of Forestry, Lexington, Kentucky (November 1998 – June 1999)

- Worked cooperatively with the U.S. Forest Service on prescribed burn implementation and research, data compilation and analysis for publications.
- Coordinated and carried out field work for research on old-growth forest dynamics, analyzed field samples and data, and interpreted data for publications.
- Conducted, interpreted and transcribed interviews with private landowners in Kentucky related to the root causes of arson and forest fires on private and public land in Kentucky.
- Maintained scientific databases and supervised student workers assisting with projects.

Inventory Forester, Robinson Forest, University of Kentucky Department of Forestry, Clayhole, Kentucky (May 1998 - October 1998)

- Assisted in the establishment of field procedures for the Continuous Forest Inventory project on the University of Kentucky's 14,000 acre research forest.
- Directed and supervised field crew in data collection.
- Utilized Trimble GPS equipment to locate and establish 269 permanent inventory plots, gathered inventory data using scientific forestry methods, and analyzed field data.

Research and Laboratory Assistant, University of Kentucky Department of Forestry, Lexington, Kentucky (January 1996 - December 1997)

- Carried out field monitoring, classified and photographed soil invertebrates, and analyzed field data for research in collaboration with *Appalachia-Science in the Public Interest*.
- Gathered and analyzed ecological data for the Red River Gorge's rock shelters.
- Adapted and carried out soil laboratory analysis for Kisatchi National Forest and Mammoth Cave National Park.

PROFESSIONAL MEMBERSHIPS AND BOARDS

- National Network of Forest Practitioners
- Lexington Tree Board Member
- Urban Forest Initiative
- Lexington Friends Preschool Board Member

CERTIFICATES AND SKILLS

- Comprehensive knowledge and focus on Kentucky's Bluegrass Region on conservation related programs, management practices, strategies, and challenges.
 - Experience with the initiation, implementation, and monitoring of state and federal inter-agency cost-share programs.
- Strong written and oral communication skills, ability to work collaboratively with a diversity of individuals and groups, motivated independent worker, and good organizational skills.
- First aid and CPR certified.

EDUCATION

University of Kentucky, Lexington, Kentucky
 B.S. in Forestry 1998, Minor in Agriculture 1998

Robert Gates
132 North Broadway Park
Lexington, KY 40505
C (502) 229-1503
rgates611@gmail.com

WORK EXPERIENCE

Outreach Specialist

Bluegrass Greensource; Lexington, KY

Part of a three member team responsible for fostering the promotion of energy efficiency and sustainability within the Lexington and the surrounding region. Primary duties include working with businesses and apartments to implement recycling, water quality and energy efficiency programs and encourage participation in the LiveGreenLexington Green Business Challenge. Additional duties include collaborative efforts for the planning and implementation of zero waste programs, and anti-litter campaigns as well as the general promotion of public awareness regarding sustainable efforts throughout the city and neighboring area.

Water Management Coordinator/Project Specialist

Barren River Area Development District; Bowling Green, KY

Aug. 2012 – June 2015

Was responsible for long term planning and project development for 50+ water and wastewater utility systems within a 10-county region. Collaboration with state and local officials, municipalities, and utility systems throughout project planning and implementation phases including preparing funding proposals and project administration. Responsible for data collection, maintenance, and integration into statewide planning database. Head of Regional Water Management Council including organization of quarterly meetings to address water and wastewater related issues within the region.

Tasked with implementation of the Kentucky Agricultural Development Information System (KADIS) initiative within 10- county region. Collaboration with various public and private entities in the collection, maintenance and integration of agricultural resource data into state-wide database, leading to an interactive web-based mapping tool with a wide range of applications to promote agricultural initiatives and sustainable economic development within the state.

Worked with Rivers, Trails and Conservation Assistance Program to develop the Green River Blueway Water Trail Plan to coordinate and guide river oriented development and tourism efforts along 300 + mile Green River corridor. Working with state and federal agencies to conduct evaluations and perform data analysis to assess current facilities and recreational areas and determine possible growth opportunities.

GIS/GPS Specialist

Barren River Area Development District; Bowling Green, KY

Jan. 2011 – Aug. 2012

Performed various GIS tasks relating to community and economic development within 10-county region. Responsibilities included extensive field work and data collection using Trimble GPS equipment, data integration and management within regional geodatabase, utilization of spatial analysis and geoprocessing techniques in planning processes, and production of end user maps utilized in grant administration and policy decision making.

Student Lab Consultant

WKU Student Technology; Bowling Green, KY

Sept. 2009 – Dec. 2010

In charge of the management and oversight of multiple student computer labs throughout Western Kentucky University's campus. Assisted students with computer related issues involving troubleshooting various software programs such as Microsoft Office Suite.

Assistant to Campus Sustainability Coordinator

WKU Office of Sustainability; Bowling Green, KY

Sept. 2008 – May. 2009

Assisted the Sustainability Coordinator with the planning and implementation of the 2009 Campus Sustainability Day at WKU. Helped plan sessions and organize presenters and logistics of the event. Aided in promotion of event through social media and maintenance of event webpage.

ADDITIONAL EXPERIENCE

KIIS Study Abroad - Ecuador

Summer 2010

Traveled to various locations throughout Ecuador to act a translator and provide free dental care to civilians from various urban and rural communities. Also worked with local students to promote sustainable development and education in Amazonian indigenous communities.

EDUCATION

Western Kentucky University, Bowling Green, KY 42101. September 2007- December 2010

GPA 3.52

Major – Geography – Environment and Sustainable Development

Minor – Geographic Information Systems (GIS), Spanish

SKILLS AND PROFESSIONAL ORGANIZATIONS

Computer proficiency: Microsoft Office Suite; GIS: ESRI ArcGIS Desktop 10.x, ArcPad, Trimble GPS, ArcGIS Online; Statistical Analysis software (SPSS, Excel, Access).

Certified Kentucky Community Development Block Grant Administrator, Association of American Geographers, American Planners Association, Kentucky Association of Mapping Professionals, American Geophysical Union, Kentucky Rural Water Association, Barren River Food Systems Alliance, Bowling Green Young Professional Society.

PROFESSIONAL REFERENCES

Rodney Kirtley

Executive Director, Barren River Area Development District
Barren River Area Development District
177 Graham Ave.
Bowling Green, KY 42101
(270) 781-2381
rodney.kirtley@bradd.org

Gene Becker

Associate Director, Barren River Area Development District
Barren River Area Development District
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Bowling Green, KY 42101
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gene@bradd.org

Dr. John All

Associate Professor, Department of Geography & Geology
1906 College Heights Blvd 31066
Bowling Green, KY 42101-1066
(270) 745-3253
john.all@wku.edu

Pattie Stivender

3813 Forest Green Dr.
Lexington, KY 40517
(859)321-3298

Education

CERTIFIED ENVIRONMENTAL EDUCATOR – Frankfort, KY
Kentucky Environmental Education Council, 2010

EASTERN KENTUCKY UNIVERSITY – Richmond, KY
Pre Occupational Therapy, 1987 - 1989

CARROLL COUNTY HIGH SCHOOL – CARROLLTON, KY
HIGH SCHOOL DIPLOMA, 1985

Awards

2011 YMCA Child Development Volunteer of the Year

Work Experience

BLUEGRASS GREENSOURCE—LEXINGTON, KY
Education Coordinator, August 2012 to present

Duties - Oversee education staff. Plan and align school curriculum and activities. Plan and schedule outreach events. Serve on the Kentucky Environmental Education Council Certification Advisory Committee and FCPS Sustainability Council.

BLUEGRASS PRIDE – LEXINGTON, KY
Environmental Educator, July 2007 to Aug. 2012

Duties – Plan and schedule programs with schools and community event coordinators. Main programs currently involved in - WasteBuster Program, Gainesway Pond Project, Millcreek Stream Restoration.

FAYETTE COUNTY PUBLIC SCHOOLS – Lexington, KY
Activity Director for CAPS, August 2004 to June 2007

Duties - Director of after school program. Plan activities for CAPS, oversee staff, work with parents and students to develop a creative, active after school program.

Summer Camp Director – Oversee all aspects of summer camp. Registration, activities, food service, oversee staff, field trips.

Pattie Stivender

Languages

Place your text here. Delete this text and heading if you don't need them.

Accreditation

Place your text here. Delete this text and heading if you don't need them.

Patents and Publications

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Interests and Activities

Place your text here. Delete this text and heading if you don't need them.

Hobbies

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Computer Skills

Place your text here. Delete this text and heading if you don't need them.

Licenses and Certificates

Place your text here. Delete this text and heading if you don't need them.

Emily Casey

(201)-213-9138 • emily@bggreensource.org
440 Plainview Rd. Lexington, KY 40517

EDUCATION

University of Vermont, Burlington, VT

Graduated May 2011

Bachelors of Science: Early Childhood Special Education

Major Concentration in Environmental Studies

Dean's List of Distinguished Students

WORK EXPERIENCE

Bluegrass Greensource, Lexington, KY

October '14-Present

Environmental Educator

- Provide in-class environmental education to students ranging from PreK-12th grade
- Responsible for establishing and maintaining teacher contacts and for scheduling activities compliant with grant requirements
- Conduct outreach events for children and adults during evenings and weekends upon request

McConnell Springs Nature Park, Lexington, KY

June '14-September '14

Program Assistant, Div. of Parks & Recreation

- Led various nature-themed programs around the park, such as interpretive walks and wetland studies
- Actively removed invasive plant species and managed native flora

Mountain Top Children's Museum

November '13- March '14

Exhibit Attendee & Program Facilitator

- Maintained and staffed museum exhibits during normal business hours
- Led various science themed programs, such as "Kids Night Out" for children ages 3yr-12yrs

Breckenridge Recreation Center, Breckenridge, CO

November '13- March '14

Youth Instructor

- Responsible for facilitating various after school and parent drop-off programs
- Lead teacher for children ages 2mo-6 years old

Ice Castles LLC, Colorado

Winters '12/13-'13/14

Ticket booth manager

- Demonstrated excellent customer service skills, while selling tickets for ongoing event

Natural Bridge State Resort Park, Slade, KY

June '13-October '13

Seasonal Naturalist

- Designed and implemented recreation programming to State Park visitors
- Managed flora and fauna in and around the state park

Steamboat Mountain Resort, Steamboat Springs, CO

November '12-April '13

Childcare Teacher

- Responsible for managing daycare classrooms for children ages 6mo-6 yrs
- Taught skiing to students in the Kids Vacation Center

The Turtle Back Zoo, West Orange, NJ

June '12-November '12

Zoo Camp Instructor

- Actively implemented zoo camp curriculum to a variety of age groups
- Cared for education animals

Early Childhood Program, Bradford, VT

July '11-June '12

Early Childhood Special Educator

- Performed individual student accommodations, differentiated instruction, successful classroom management and lessons concurrent with local and national standards

Okemo Mountain Resort, Ludlow, VT

Winter '11-'12

Early Childhood Special Educator

- Performed individual student accommodations, differentiated instruction, successful classroom management and lessons concurrent with local and national standards

Brooklyn Botanical Gardens, Brooklyn, NY

Summer '11

Children's Garden Instructor

- Responsible for creating and implementing curriculum relating to gardening practices, food systems and the natural world to different preschool classes throughout the summer

AWARDS & CERTIFICATIONS

Kentucky Environmental Educator Certification

Kentucky Teacher Certification

Project WET, WILD and Learning Tree Workshop Facilitator

CPR and AED Certified

Wilderness First Aid Certified

Leave No Trace Certified Presidential Award & Scholarship for Outstanding Citizen of the Year

Steamboat Ski Resort's Employee of the Month

Ashley E. Bryant Cheney

515 Lone Oak Dr.
Lexington, KY 40503
(865) 684-9106

EDUCATION

Eastern University, August 2008 - May 2010

MA – Urban Studies: Community Development Concentration
G.P.A. – 3.95/4.0

Masters Thesis: "Garden Where?: Review and Evaluation of a Garden-to-Table Curriculum ."

Carson-Newman University, August 2004 - May 2008

BA – Applied Psychology/Cross-Cultural Sociology
G.P.A. – 4.0/4.0 (Bonner Scholar, Summa cum Laude)

EXPERIENCE AND EMPLOYMENT

Bluegrass Greensource

Environmental Educator/ Volunteer Coordinator November 2014-Present
Green Jobs Program Coordinator, VISTA November 2013-November 2014
Responsibilities include: K-12 environmental education, aligning educational activities to the NGSS, acting as a point of contact for teachers on environmental issues, developing and managing a volunteer program, volunteer initial and continuing training

CASA of the Tennessee Heartland

Advocate Coordinator, Anderson County July 2010-June 2013
Responsibilities included: volunteer supervision and management, volunteer screening, volunteer initial and continuing training, volunteer retention, program management, case management

Narrow Ridge Earth Literacy Center

Planning and Development Committee January 2008-Present
Board of Directors (Treasurer, Executive Committee) January 2009-December 2014
Programs Committee/Outreach Committee January 2008-December 2013
Responsibilities included: developing and planning environmental education programs, developing agendas, creating reports for board meetings, conducting internal audits, recruiting volunteers and program participants, researching/writing grants, planning fundraising events, coordinating public relations and social media

Smithwood Baptist Church

Community Service Organizer, Internship October 2006-April 2008
Responsibilities included: organizing community service activities with local and regional non-profit organizations, organizing community service trips, mediating between church leaders and youth group

TRAINING

Culturally Competent Leadership

For small nonprofits to develop volunteer diversity and manage a culturally diverse volunteer base

Stewards of Children by Darkness to Light

Delivered to organizations providing direct services to children for the prevention of child abuse

Everyone Ready Volunteer Management Series

Quarterly training for volunteer supervisors on a variety of topics pertaining to volunteer management

AWARDS

2008 Carson-Newman University Environmental Stewardship Award

Awarded to graduating student who has show outstanding commitment to environmental justice

2010 Bonner Alumni Award: Celebrating Lifelong Service

Awarded to Bonner Alumni at the 20th anniversary of the Bonner Foundation for continued commitment to community service and social justice

Deborah Larkin

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Danville, KY 40422
859-516-1775
deb@bggreensource.org

Professional Experience

- March 2010 – June 2015 Bluegrass Greensource, Lexington, KY: Part-time Environmental Educator through June, 2010; Full-time Seasonal Environmental Educator through June, 2011; Full-time Environmental Educator through June, 2015.
- 2007-2009 Herb Consultant/sales person at Flower Power, Lexington, KY
- 1997-2009 Proprietor of The Stillroom, offering wholesale herb plants, dried herbs, essential oils and educational workshops/presentations on 21st century herbals, aromatherapy and heirloom plants, Danville, KY
- 1977-2003 Herbalist/Horticulturist for Shaker Village of Pleasant Hill, Harrodsburg, KY. I researched and re-established the 19th Century Medicinal Herb Garden, Apple Orchard and Seed Industry at the museum. Responsibilities included managing the garden and orchard, conducting an annual heirloom produce fair, set-up and interpretation of related museum exhibits, supervision of staff, and leading tours and workshops.

Education

B.S. in Horticulture, University of KY College of Agriculture, 1975

International Certification in Aromatherapy, Pacific Institute of Aromatherapy, San Rafael, CA, 1997

KARA M. SAYLES

275 Sherman Ave • Lexington, Kentucky 40502
Cellular: (859) 269-8362 • E-mail: Kara@bgGreensource.org

SUMMARY OF QUALIFICATIONS

- Extensive knowledge in sustainable practices and education.
- Comprehensive experience in designing, land management, rain gardens, and living machine designs.
- Understanding of Sustainable Agricultural Practices.
- Well-developed verbal and written communication skills.
- Experienced with computers.
- Highly analytical, resourceful, creative, motivated, and organized; able to complete tasks in a timely manner and meet or exceed objectives.
- Able to work well independently or as part of a team.
- Strong problem-solving skills.

EDUCATION

EVERGREEN STATE COLLEGE Olympia, Washington
Bachelor of Arts in Ecological Design and Sustainable Agriculture, 2005

LEXINGTON COMMUNITY COLLEGE Lexington, Kentucky
Environmental Technology, 1999

WORK EXPERIENCE

2008 to 2015 Bluegrass Greensource Lexington, Kentucky
Environmental Educator—Responsible for teaching a variety of environmental lessons and serving as the Rain Garden Project Coordinator.

2008 to 2007 Red Hat Creative Services Nicholasville, Kentucky
Project Manager—Responsible for event planning and marketing certain key projects for a home based business.

2003 to 2004 EVERGREENS ORGANIC FARM Olympia, Washington
Student Worker—Responsible for producing poultry; designing outdoor buildings; and propagating greenhouses.

2002 to 2003 SOUND BUILDERS RESOURCE Olympia, Washington
Sales Associate— Responsible for collaborating with non-profit organizations, such as Grub and Habitat for Humanity; operating forklifts and flatbeds; and selling materials.

Volunteer

- PTA and Classroom Helper, 2015
- Community Garden, Coordinator, 2004
- Kentucky Watershed Watch, 1999

Danny Ray Woolums Jr.

(859)913-0418

dannyr.woolumsjr@gmail.com

Education

Bachelor of Arts in Philosophy, Transylvania University, Lexington, KY
Political Science and Spanish Minors

August 2013

Relevant Experience

Environmental Educator, Bluegrass Greensource, Lexington, KY
February 2015 – Present

- Guide students and educators through activities inside and outside the classroom surrounding various environmental topics (eg: waste reduction, energy conservation, water quality, etc.)
- Facilitate workshops for staff members based around national environmental education curricula
- Lead workshops for community members on topics as needed (eg: How to create and install a rain barrel)
- Perform outreach to business members and apartment managers on ways to increase their sustainable practices

Member, Board of Directors, Kentucky Association for Environmental Education, Lexington, KY
September 2014 – Present

- As Co-Chair of Education Committee, determine and develop necessary programs for expanding environmental literacy across the state. Additionally, secure funding for any programs necessary by grant-writing.
- Collaborate with fellow board members to strategize goals and objectives for the upcoming year.

Learning Coach, The Sphinx Academy, Lexington, KY
January 2014 – December 2014

- Develop lesson plans and assignments for students taking courses taught by myself.
- Revise student papers/assignments before submission to other instructors.
- Partner with other Learning Coaches and Director of Education to find/develop new programs for students.
- Create week-long day-camps geared for middle and high school students and facilitate activities.

Waste and Recycling Coordinator, Transylvania University, Lexington, KY
August 2010 - May 2012

- Managed alternative waste services (Ink Cartridge, Battery and Electronic Recycling; Terracycle) offered through school sustainability office.
- Programmed across campus to ensure that students were aware of waste services on campus
- Assisted Director of Sustainability when necessary. Tasks included data collection/research, poster/sign making, and any additional functions as needed.

Secretary, Board of Directors, Bluegrass Greenworks, Inc., Lexington, KY
February 2010 - August 2012

- As secretary, recorded minutes of all meetings and distributed to members via email after meetings had ended.
- Collaborated with fellow board members on development of annual Green Expo.

Relevant Certifications

Kentucky State Certified Environmental Educator, May 2015

Project WILD Facilitator, June 2014

Project Flying WILD Facilitator, June 2014

Project Underground Facilitator, June 2014

Leopold Education Facilitator, June 2014

Project Learning Tree K-8 and Secondary Modules Facilitator, June 2014

Project WET 2.0 Facilitator, June 2012

Crystal Collett Barnes

101 Malta Ct • Nicholasville, KY 40356 • (606) 802-4545 • crystal.collett.barnes@gmail.com • crystalbarnes.wordpress.com

Education:

Berea College
Bachelor of Arts
English with a
Concentration in Writing

Dean's List
6 Consecutive Semesters

Cumulative GPA
3.51

• • •

References:

Douglas Widner
Web Communications
Manager,
Berea College
859-985-3028

Denise Myers
Energy Solutions
Manager,
Blue Grass Energy
859-621-9801

Jessica Holly
Design Coordinator,
Eastern Kentucky
University
859-200-7702

Related Work Experience

Bluegrass Greensource: *Communications Specialist* 2015-Present

- **Game Changer:** Developed and implemented strategic social media and marketing methodology.
- **Network Builder:** Established relationships with media and non-profit organizations in twenty counties.
- **Creative:** Designed all web and print marketing material for the organization.
- **Economical:** Negotiated and secured best possible rate advertising contracts with broadcast and print media.
- **Visionary:** Doubled average daily social media engagement and increased total social media followers.

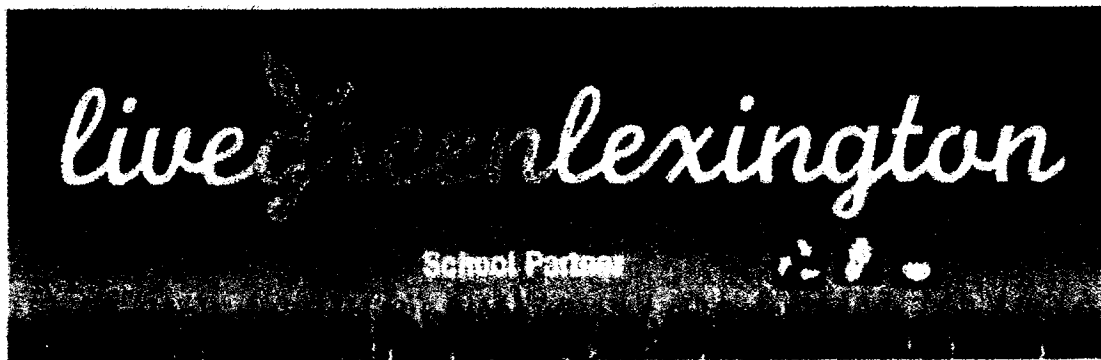
Blue Grass Energy: *Executive Coordinator* 2014-2015

- **Communicator:** Prepared executive and staff communications.
- **Focused:** Reduced departmental expenses 28% by streamlining processes and task mastering.
- **Organizer:** Arranged all company travel, board correspondence, and maintained appropriate records.
- **Responsible:** Performed all notary duties for the cooperative.
- **Relationship Builder:** Created and fostered relationships with hotel management. Established a long-term, multi-location agreement with hotel chain to lock in long-term pricing and availability.
- **Multi-Talented:** Composed and edited all in-house video production.

Berea College: *Web Development, Marketing Manager* 2009-2013

- **Creator:** Developed a multi-media web content management training manual for use by faculty and staff.
- **Trainer:** Trained students, faculty, and staff in web development and web communications.
- **Manager:** Developed and implemented a daily work schedule.
- **Analyzer:** Reviewed and investigated website traffic and analytics and adjusted methods accordingly.
- **Customer Oriented:** Served as liaison between collegiate departments to address and improve concerns and technical issues.
- **Innovator:** Converted a 20,000+ page website across content management systems.
- **Writer:** Authored and edited the student-run blog "Life in the Bubble."
- **Productive:** Designed brochures, letters, and advertising that resulted in increased college admission applications.
- **Designer:** Prepared videos and articles for placement on website.
- **Problem Solver:** Resolved technical website issues. Restructured website to improve usability.
- **Narrator:** Corresponded with prospective students and families. Drafted and edited copy for the college website.

-
- Adobe Creative Suite
 - Video Production
 - Principle Photography
 - Social Media
 - Graphic Design
 - Microsoft Office Suite
 - Content Management
 - Web Development & Management
 - Google Analytics
-



Meet Your LiveGreenLexington School Partner Environmental Educator!



Bluegrass Greensource Environmental Educators provide programming on all things "green" in 19 central Kentucky counties in partnership with schools and local government. Our Educators are available for classroom instruction, after school programs, environmental camps and community events.

Through the LiveGreenLexington program BGGGS educators assist Lexington schools in the areas of waste reduction, energy conservation, and water quality. The LiveGreenLexington School Partner Program is available to all public and private schools in Fayette County and is funded by the Lexington-Fayette Urban County Government (LFUCG).



Emily Casey recently joined the Bluegrass Greensource team as an Environmental Educator working primarily with elementary and middle school students. She holds a B.S. In Education and Environmental Studies from the University of Vermont. Emily is originally from New Jersey and has spent time living throughout New England and Colorado. Emily spends her free time exploring Lexington (GO CATS!) and "playing" outdoors around the beautiful Bluegrass Region she now calls home.

Ashley Bryant Cheney is an elementary and middle school educator for Bluegrass Greensource. From Knoxville, TN, her background is in volunteer and program management at various non-profit organizations. She has a B.A. in Psychology and Cross-cultural Sociology from Carson-Newman University and a M.A. in Urban Studies and Community Development from Eastern University. Ashley loves hiking with her husband, Matt, and her dog, Nina. She can also be found discovering creative ways to reuse "trash" and turning various discarded objects into craft projects.

Deborah Larkin joined Bluegrass Greensource in March, 2010, as an Environmental Educator. Deb holds a B.S. in Horticulture from the University of Kentucky College of Agriculture. Before coming to Greensource, she was the Horticulturist for the Shaker Village of Pleasant Hill, near Harrodsburg, KY. During her 27 year tenure there, she researched and re-established the 19th century apple orchard, herb garden and heirloom seed industry. Her current responsibilities at Bluegrass Greensource include serving as educator for schools in Fayette County, as liaison with Girl Scouts - Kentucky's Wilderness Road Council, and as outreach educator for Clark, Boyle, Garrard and Lincoln counties.

Kara Sayles is an environmental educator and rain garden project coordinator for Bluegrass Greensource. Her background is in Environmental Science and she holds a B.A. with a focus on Ecological Design and Sustainable Agriculture from The Evergreen State College. Kara chose to become an environmental educator because some of her fondest childhood memories are from observing tadpole ponds near her home: "Seeing a small tadpole transform into an adult frog was not only amazing but it sparked this lifelong desire to learn about nature."

Pattie Stivender is the Education Coordinator working with pre K - 12 schools and also coordinates community outreach activities. Pattie attended Eastern Kentucky University where she majored in Occupational Therapy. Pattie developed a passion for nurturing the environment as a young child watching television! The Crying Indian PSA developed by Keep America Beautiful opened her eyes to the negative impact that humans can have on the earth. Litter cleanups are one of her favorite activities. Contact Pattie with questions about environmental education in area schools or to schedule an event in Fayette County.

Kacie Tackett recently joined Bluegrass Greensource as an environmental educator who works primarily with elementary school students. Kacie graduated from Berea College with a double major in Biology and Studio Art. She earned her master's degree in Biological Science from Eastern Kentucky University. Kacie's background is in field botany and forest ecology. She enjoys spending her free time hiking, exploring, and being a continual student of natural history. Her passion is inspiring curiosity and enthusiasm for the natural world.

Click here for a list of [schools and educators](#).

The LiveGreenLexington School Partner Program is funded by the Lexington-Fayette Urban County Government and managed by Bluegrass Greensource. For more information, please visit: www.livegreenlexington.com



Appendix: General 5.d.iv.

To schedule a lesson or for more information about LGL school programs contact:
Bluegrass Greensource
(859)266-1572
pattie@bggreensource.org



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ZERO-WASTE CLASSROOM

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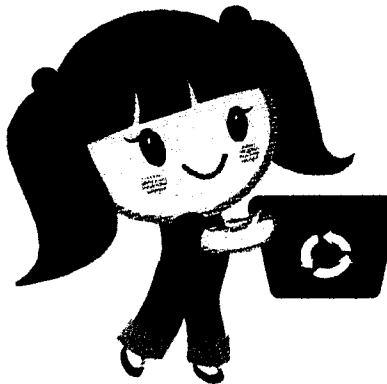
Ms. ****'s

*** GRADE CLASSROOM

IN RECOGNITION OF
THEIR CLASSROOM

RECYCLING EFFORTS FOR THE

2014-2015 SCHOOL YEAR



Appendix: School Recycling 4.e.



WASTE FREE LUNCHES

TIPS FOR TEACHERS and STUDENTS

It has been estimated that on average a teacher or a student using a disposable lunch generates **67 pounds** of waste per school year. That equates to **18,760 pounds** of lunch waste for just one average-size elementary school.

An example of a waste-free lunch includes:

- sandwiches and other main dishes, fresh fruits and, fresh vegetables, and treats in reusable lunch containers (i.e., Tupperware, Gladware, etc.)
- cloth napkins
- stainless-steel or sturdy plastic (non-disposable) forks and spoons
- reusable drink containers (i.e., water bottle or thermos)
- reusable lunchboxes
- no discarded food

You can save money too! Foods bought in bulk or in larger packages are often cheaper. The packaging is left at home for reuse or recycling. Food waste also decreases because with a reusable lunch container, uneaten food can be re-packed or dumping it, packaging and all, into the school trash can.

A Disposable Lunch

1 egg salad sandwich	\$1.25
1 individual yogurt	\$0.85
1 individual granola bar	\$0.45
1 apple	\$0.30
1 package of carrots w/ dip	\$0.65
3 plastic bags	\$0.12
1 juice pouch	\$0.35
1 plastic spoon	\$0.04

A Waste Free Lunch

1 egg salad sandwich	\$1.25
1 serving of yogurt	\$0.50
1 serving of granola	\$0.35
1 apple	\$0.30
1 serving of carrots w/dip	\$0.25
water	\$0.00
cloth napkin	\$0.00
stainless steel spoon	\$0.00

1 paper napkin	\$0.01	packaging	\$0.00
Total	\$4.02	Total	\$2.65

That's a \$246.60 savings per school year per person!

Tips for Reducing Your Workload

- If you don't do so already, try packing lunches the night before and keeping them in the refrigerator overnight.
- If packing for a child, make them responsible for adding the ice pack and placing their own lunchbox near the door or in the car.
- Share with older students how to make nutritious, waste-free lunches and then encourage them to make their own lunches.
- Students of all ages can take responsibility for putting recyclables in the recycle bin.

Tips for Reducing Student Food Waste

- Make a list and have your students (with your help) make a list of foods they are interested in having in their lunches to share with their provider. This can help avoid uneaten food in the trash cans at school. Encourage students to take lunch leftovers home. Looking at leftover lunches is a great way to get information about student lunch preferences. Find out why certain foods have been uneaten. Did the student not like it? Was she not hungry enough to eat everything in the lunchbox? Was there a birthday celebration at school that day? Did she share someone else's lunch instead? Maintain a dialogue without criticizing. Consider making a list of foods that each student likes to eat for lunch and update it regularly with input from your students. You may find that she prefers romaine lettuce to red leaf lettuce. By making this simple change, she might start eating salads more regularly. Providing a dip for carrot and celery sticks might make eating them more fun.
- Cut up fruits and vegetables. Children often take 1 or 2 bites out of an uncut apple or banana and throw the rest away. To avoid this, have students pack cut-up fruits and vegetables in a reusable container. The student can take a few bites and save the rest for later.
- Encourage the use of drinks in reusable containers. Children cannot reseal juice boxes, cans, or pouches. Often they drink half (or less) and throw the rest away. For the most cost savings, buy drinks in larger containers and send to school in a reusable container. (Recycle the large bottle at home.) Students need plenty of water, so consider encouraging them to choose water as their beverage of choice.
- Encourage students to help plan, prepare and pack their own lunches. They're more likely to eat a meal that they've helped prepare. Involvement in meal preparation also teaches them where their food comes from, and it provides them with the confidence and skills they will need to prepare food for themselves later in life.

For more tips on waste reduction visit the reduce your wasteline section of www.greensource.org


This information was taken from <http://www.wastefreelunches.org/parents.html> and was excerpted from *The Laptop Lunch User's Guide: Fresh Ideas for Making Wholesome, Earth-friendly Lunches Your Children Will Love*. Copyright 2002, Morning Run Press. Additional information came from Economic Research Service, US Department of Agriculture, "Estimating and Addressing America's Food Losses," 1997.

Appendix: School Recycling 6.a.





Lexington schools have the opportunity to compete in two recycling contests this fall!

 *Keep America Beautiful's* recycling competition is back. Compete against other schools in your state and nationwide to see who recycles the most. There are lots of ways to get involved, tools and resources to get you started, and the chance to be crowned the 2014 National Champion! Click [here](#) to learn more about the two Recycle-Bowl competitions and get started.



LOCAL RECYCLE-BOWL

The first contest is the *Keep America Beautiful (KAB) Local Aluminum Beverage Can Recycling Contest* which is now in its ninth year. This competition is for aluminum beverage cans only. The contest runs Oct. 20 - Nov. 15, 2014. Cans collected by the school off-site and on-site count toward contest totals.

Schools may take aluminum beverage cans to participating buy-back centers: *Wise Recycling* located at 203 Lisle Industrial Avenue or *Baker Iron and Metal* located at 540 Rockcastle Avenue and 1558 Old Frankfort Pike. If requested at time of registration, schools can hold one on-site drop-off day on Wednesday, Nov. 12, 2014. LFUCG Waste Management staff will pickup and transport bags of cans to a buy-back center. A minimum of 10 bags is required for pickup. Each bag must be labeled with the school name.

The top schools in each size category that collect and recycle the highest number of aluminum cans per capita and the six schools that collect the highest total number of aluminum cans will receive a monetary award.

NATIONAL RECYCLE- BOWL

Appendix: School Recycling 6.b.

The second contest is the *Keep America Beautiful (KAB) Recycle-Bowl National Competition*. This contest gives schools that are recycling additional items such as plastic bottles, cardboard, and paper products another chance to win by competing against other Kentucky schools through the Recycle-Bowl National Competition. The school in Kentucky that collects the most recyclable material per student will receive national recognition.


Both contests will run from October 20 through November 15, 2014. Schools can compete in either competition but we encourage schools to participate in both the local contest and the national contest! To complete the online registration form for both contests at the same time, simply go to www.lexingtonky.gov/recyclebowl and click on REGISTER HERE and complete the one page form. **It only takes a minute to register but registration for both the local and national contests closes on Monday, October 13, 2014 so please don't delay.** Details and rules for both the local contest and the national contest can also be found at www.lexingtonky.gov/recyclebowl.

If you have questions please contact Jada Griggs at 859-425-2343 or at jgriggs@lexingtonky.gov.

The LiveGreenLexington School Partner Program is funded by the Lexington-Fayette Urban County Government and managed by Bluegrass Greensource. For more information, please visit: www.livegreenlexington.com

To schedule a lesson or for more information about LGL school programs contact:
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Bluegrass Youth Sustainability Council Earth Day Celebration
and
LiveGreenLexington School Partner Recognition Ceremony

Celebrate Earth Day at the 2014-15 LGL School Partner
Recognition Ceremony

Wednesday, April 22, 2015
5:00 - 6:30 PM
The Kentucky Theater
214 East Main St. Lexington

Please join us as we recognize Fayette County schools for their efforts in sustainability. Schools will be recognized for outstanding efforts in waste reduction, water quality and conservation, and energy conservation.

Over 80 public and private schools will be recognized this year. Check this [list](#) to see what your school earned this year!

Educators are encouraged to bring students that have had an impact on their school's sustainability.

Please RSVP (school name, number of people attending) with [Pattie Stivender, pattie@bggreenSource.org](mailto:pattie@bggreenSource.org).

Appendix: School Recycling 7.b.



The LiveGreenLexington School Partner Program is funded by the Lexington-Fayette Urban County Government and managed by Bluegrass GreenSource. For more information, please visit: www.livegreenlexington.com

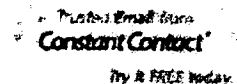
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pattie@bggreensource.org



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Appendix: Water Education Schools 2.a.

Water Camp

Four day camp rotation

Activities based on a group of approximately 20 campers in 4th and 5th grades.

Day 1: Properties of Water and Water Cycle

Day 2: Watersheds

Day 3: Water Quality

Day 4: Water conservation

Day 1: Properties of Water and Water Cycle

Is There Water on Zork? (WET)

What's the Solution? (WET)

The Incredible Journey (WET)

Blue Traveler (Conserve Water)

Parachute into a State of Matter

Day 2: Watersheds

Topo maps - compass reading

Watershed mapping

Blue River (WET)

Watershed in a Pan

8-4-1, One For All (WET)

Day 3: Water Quality

Poison Pump (WET)

Enviroscape

Pollution Parachute

Macroinvertebrate Mayhem (WET)

Nonpoint Source Challenge Course

Day 4: Water Conservation

Something for Everyone (Population Connection)

A Drop in the Bucket (WET) focus activity

Reaching Your Limits (WET)

Sum of the Parts (WET) water quality

Pass the Jug (Conserve Water)

Super Bowl Surge (WET)

Money Down the Drain (WET)

Additional activities

Fish Prints

More or Less (Population Connection)

Appendix: Water Education Schools 2.a.

Activity Descriptions

Is There Water on Zork? (WET)

Students describe the unique characteristics of water and design investigations to distinguish water from other clear liquids.

What's the Solution? (WET)

While investigating the dissolving power of water, students solve a crime

The Incredible Journey (WET)

With a roll of a cube, students simulate the movement of water within the water cycle.

Blue Traveler (WET Conserve Water)

With a roll of a cube, students simulate the movement of water within a built environment.

Parachute into a State of Matter

Using a parachute students simulate different states of water - molecules change from a solid to a liquid and to a gas based on the level of energy.

Topo maps - compass reading

Introductory lesson on reading a topo map and how to use an orienteering compass

Watershed mapping

Using a topo map of the school or camp grounds students determine the flow of water and determine the watershed the grounds are located in.

Blue River (WET)

Students participate in a whole-body exercise to simulate the movement of water through a river and its watershed.

Watershed in a Pan

Students make a model of a watershed in a pan

8-4-1, One For All (WET)

Representing eight different water users, students must safely carry one water container "downstream" and must navigate through four simulated water management challenges to reach the next community of water users on the same "river".

Poison Pump (WET)

Appendix: Water Education Schools 2.a.

Through a series of clues, students solve a mystery to discover that water can also produce negative effects for people.

Enviroscape

Tabletop model of a section of a watershed that shows how point source and nonpoint source pollution enter waterways.

Pollution Parachute

Simulation of nonpoint source water pollution traveling through watersheds and river basins using a large parachute.

Macroinvertebrate Mayhem (WET)

Students play a game of tag to simulate the effects of environmental stressors on macroinvertebrate populations.

Nonpoint Source Challenge Course

A teamwork activity using bullrings that focuses on nonpoint source pollution in water.

Something for Everyone (Population Connection)

Students draw renewable resources from a common pool while learning about carrying capacity and short-term strategies that will preserve a long-term supply of the resource.

A Drop in the Bucket (WET) focus activity

By estimating and calculating the percentage of available freshwater on Earth, students understand that this resource must be used and managed carefully.

Reaching Your Limits (WET)

By playing a game of limbo, students gain a better understanding of the effort involved in meeting drinking-water quality standards-especially when water quality declines

Sum of the Parts (WET) water conservation

Students demonstrate how everyone contributes to pollution of a river as it flows through a watershed and recognize that through individual and group action, the amount of pollution can be reduced. Adapt to focus on water usage and water conservation.

Pass the Jug (Conserve Water)

Students simulate and analyze different water rights policies to learn how water availability and people's proximity to the resource influence how water is allocated.

Appendix: Water Education Schools 2.a.

Super Bowl Surge (WET)

Students learn how wastewater systems can be overwhelmed at particular times. They then brainstorm ways to solve the problem of increased demands on a community's wastewater treatment plant.

Money Down the Drain (WET)

Through observation and simple calculations, students learn that a dripping faucet wastes a valuable resource.

Adaptation for Sum of the Parts

Place a strip of blue paper between the river borders drawn on each plot of land. As each development consumes water move each plot of land in towards the middle to show a shrinking water supply.

Pass the Jug

Good follow up to Sum of the Parts to help students understand water rights and allocation. Have them make a plan for the area they developed in Sum of the Parts.

Bluegrass Youth Sustainability Council
3rd Annual **Earth Day Celebration**

One Planet. One Experiment.
April 28, 2014 @ 5:00 pm
Sustainability Fair 4:00-5:00 pm



 PARTNER

Live Green Lexington School Partner

The **Live Green Lexington School Partner Program** is a joint program between Lexington-Fayette Urban County Government and Bluegrass Greensource. Public schools, private schools and preschools are eligible to participate in this free program. Bluegrass Greensource educators help schools start or expand recycling programs, improve water quality and conservation, and become more energy efficient.

Bluegrass Greensource is a 501(c)3 organization that provides environmental resources and information to schools, community groups, local governments and citizens in Central Kentucky.

Recycling Partner

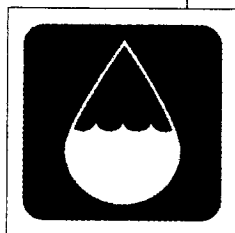
- Form a recycling team
- School wide recycling
- Custodial and Cafeteria staff participate in recycling



Master Recycler Certificate

- Assist in the transition from Rosie recycling bins to co-mingled recycling dumpsters
- Assist with waste audit/dumpster dive
- Nominated by school staff or administrators for exceptional recycling efforts.

Water Partner

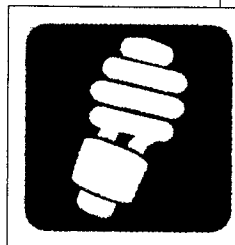


- Participate in stormwater and water quality classroom activities
- Conduct stormwater projects such as:
 - Storm drain stenciling
 - Rain gardens/rain barrels
 - Stormwater mapping
 - Water quality testing
 - Stormwater Sleuth designation
 - Kentucky Green and Healthy Schools Water Inventory
 - Trout in the Classroom

Energy Partner

**Bronze (complete steps 1-2), Silver (complete steps 1-3),
Gold (complete steps 1-4)**

- Form E=USE² student energy team
- Conducted student-led, hands-on energy and sustainability assessments of their school
- Conducted monthly energy audit patrols
- Distributed light switch face plate & door awareness stickers to each school room
- Produced an energy awareness video
- Participated in Live Green Lexington Games
- Participated in Step 5: STEM and Our Environment in partnership with UK College of Education
- Designed and implemented school energy and sustainability improvement projects
- Participated in KY Green & Healthy Schools and KY NEED Youth Awards for Energy Achievement
- Produced an energy awareness poster
- Developed a year-end portfolio on energy conservation and sustainability initiatives



Kentucky American Water Excellence in Water Education Award



KENTUCKY
AMERICAN WATER

The KY American Water Excellence in Water Education Award program allows schools to earn points by raising awareness or implementing initiatives that impact water quality or conservation. The **top three FCPS schools** to earn the most points in the KAW Excellence in Water Education Award this year will receive a **\$500 reward**. Projects and lessons that can be applied towards the award are Bluegrass Greensource water activities, a campus rain garden, water conservation awareness, Trout in the Classroom, KGHS Water Inventory or classroom lessons that address issues such as erosion, water pollution, watershed or the water cycle.

—Winners will be announced this evening.—

The Bluegrass Youth Sustainability Council



The Bluegrass Youth Sustainability Council is a project-based organization composed of a cross-section of environmentally passionate students representing the below schools. Mentored by Tresine Logsdon and local organizations with a passion for sustainability, the BGYSC meets monthly to discuss collaborative outreach projects, short-term and long-term goals, partnership prospects and leadership and post-secondary opportunities in all areas of sustainability including energy management, outdoor classrooms, waste management, water quality and air quality.

- Bryan Station High School
- Henry Clay High School
- Lafayette High School
- Lexington Catholic High School
- Lexington Christian Academy
- Paul Laurence Dunbar High School
- Sayre Upper School
- Tates Creek High School

Appendix: Water Education Schools 4.n.

Welcome

Luke, Transylvania Student Sustainability Council President
Class of 2014

Bluegrass Youth Sustainability Council Mission and Vision

Marie Armbruster, BYSC '13-'14 Student Facilitator
Lafayette High School Class of 2014

Bluegrass Youth Sustainability Council Video

Keynote Speaker and Performance

Ben Sollee

Live Green Lexington

Susan Plueger, LFUCG Commissioner of
Environmental Quality

KY Department of Agriculture

Kiley Parker, Value Added Plant Production

BYSC Partnerships & Projects

Lisa Cole, BYSC Committee Chair
Sayre Upper School Class of 2014

Kentucky American Water

Excellence in Water Education Awards

Live Green Lexington Partner Programs

Read by Emma Anderson, BYSC Committee Chair
Tates Creek High School Class of 2014

Bluegrass Greensource – Amy Sohner, Executive Director

Fayette County Public Schools– Tresine Logsdon, Curriculum
Coordinator

KY Green & Healthy Schools– Elizabeth Schmitz, Executive
Director

KY National Energy Education Development Project– Karen
Reagor, Executive Director

Closing

Ben Swanson, BYSC Committee Chair
Henry Clay High School Class of 2014

Appendix: Water Education Schools 4.n.

NEED Project and the Youth Awards Program for Energy Achievement.



The KY NEED (National Energy Education Development) Youth Awards Program recognizes student leadership, encourages students to evaluate their knowledge of energy, and provides ideas and programs that may be exchanged with other schools in the KY NEED program following a 5-step protocol to design and implement energy projects for their school and documented by creating a KY NEED Youth Awards portfolio.

KY Green & Healthy Schools



Kentucky Green & Healthy Schools (KGHS) is a project-based, student-centered program that empowers students and staff to move their school toward becoming more environmentally sustainable through a team of students, teachers and school administrators working to improve the school facilities in 9 different categories: Energy, Green Spaces, Solid Waste, Water Quality, Indoor Air Quality, Hazardous Chemicals, Health & Safety, Transportation and Instructional Leadership.

Ben Sollee, Keynote Speaker and Performer

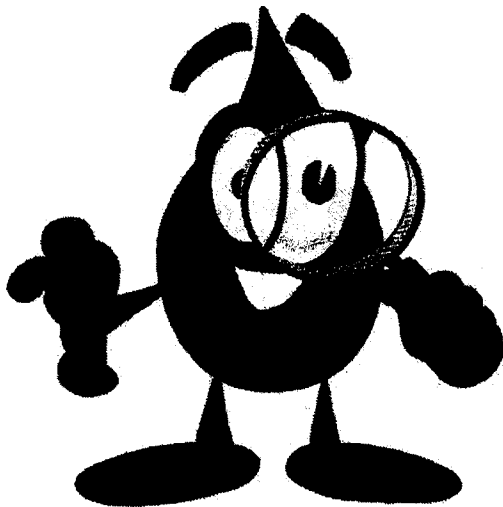


Known for his thrilling cello playing that incorporates never-tried-before techniques, Lexington native Ben Sollee shares himself completely with his audience, whether it be by personal lyrics or his commitment to the environment. In 2012, Sollee self-released his fourth album, *Half-Made Man*, a revealing, deeply moving album that explores a man trying to figure himself out, just as we all are. Sollee first gained major notice with his 2008 debut, *Learning To Bend*, hailed by NPR's Morning Edition as "Top Ten Great Unknown Albums" of the year. All Things Considered dubbed his debut "an inspired collection of acoustic, folk, and jazz-flavored songs, filled with hope and the earnest belief that the world is good." Between touring and releasing an album, Ben has performed at TEDx San Diego and composed performances for 2 feature-length films and 2 original ballets. Ben loves many things. KY students sits at the top of that list.



BLUEGRASS
GREENSOURCE

is a
Stormwater Sleuth!



Ask me...

- How can we all save water?
- Where should litter be placed?
- How can dirty or polluted water hurt people or animals?

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Education Coordinator
Bluegrass Greensource

Sponsored by LFUCG's Department of Environmental Quality and LFUCG's Division of Water Quality

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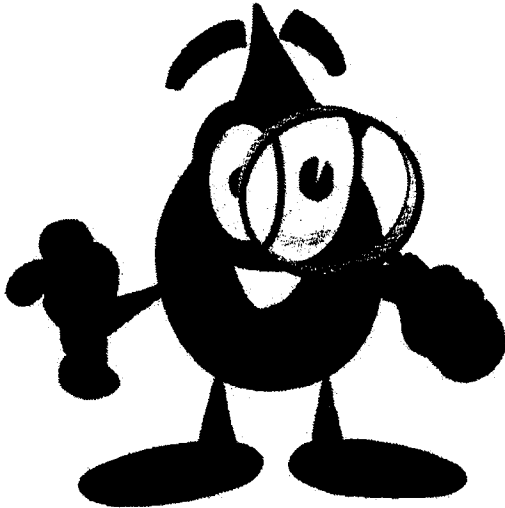
is a Junior Stormwater Sleuth!



BLUEGRASS
GREENSOURCE

Ask me...

- How can we all save water?
- Where should litter be placed?
- How can dirty or polluted water hurt people or animals?



livegreenlexington

Pattie Stivender

Education Coordinator
Bluegrass Greensource

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RECYCLING EDUCATION PLAN- APARTMENTS

livegreenlexington



Contact Person _____

Phone Number _____

Address _____

Completed By _____

Meeting Notes

ACTIONS TO TAKE:	<input type="checkbox"/> APPROVED	<input type="checkbox"/> DISAPPROVED
-------------------------	-----------------------------------	--------------------------------------

Action	(To Be) Completed:	By BGGG	By Management	At Later Date/ Ongoing	N/A	(If by BGGG Staff) Date
<u>Presentation</u> to apartment management team and available staff about Lexington's Recycling Program		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Recycling fliers <u>handed out</u> to management team and tenants about Lexington's Recycling Program		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Recycling fliers <u>emailed</u> to management team and tenants about Lexington's Recycling Program		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Recycling <u>containers</u> placed in <u>common areas and mail room</u> to capture material		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Recycling fliers or <u>signs posted</u> near all recycling containers or in common rooms		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Materials given to all <u>new apartment complex employees or tenants</u> about recycling and dumpster information		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

RECYCLING EDUCATION PLAN- BUSINESSES

Contact Person _____

Phone Number _____

Address _____

Completed By _____

Meeting Notes

ACTIONS TO TAKE:	<input type="checkbox"/> APPROVED	<input type="checkbox"/> DISAPPROVED
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Action	(To Be) Completed:	By BGGGS	By Management	At Later Date/ Ongoing	N/A	(If by BGGGS Staff) Date
Presentation to management team and available staff about Lexington's Recycling Program	□	□	□	□	□	_____
Recycling fliers handed out to management team and available staff about Lexington's Recycling Program	□	□	□	□	□	_____
Recycling fliers emailed to management team about Lexington's Recycling Program	□	□	□	□	□	_____
Recycling containers placed in common areas and break rooms to capture material	□	□	□	□	□	_____
Recycling fliers or signs posted near all recycling containers or in common rooms	□	□	□	□	□	_____
Materials given to all new employees or tenants about recycling and dumpster information	□	□	□	□	□	_____