Final Report Kentucky Nonpoint Source Education (KNSE) for Landuse Development



Grant Number: C9994861-03 **Workplan Number:** 03-10

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Submitted by:

Ritchie D. Taylor, Ph.D.



Grant Pamoor. #C777 1001 05

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Funding for this project Kentucky Nonpoint Source Education (KNSE) for Landused Development was provided in part by a grant from the U.S. Environmental Protection Agency (USEPA) through the Kentucky Division of Water, Nonpoint Source Section, to WKU as authorized by the Clean Water Act Amendments of 1987, §319(h) Nonpoint Source Implementation Grant #C9994861-03. The contents of this document do not necessarily reflect the views and policies of the USEPA, KDOW or WKU nor does the mention of trade names or commercial products constitute endorsement. This document was printed on recycled paper."

ACKNOWLEDGMENTS

The following individuals were instrumental in carrying out the goals and objectives of the Kentucky Nonpoint Source Education (KNSE) for Landuse Development workplan. The workshops were conducted by personnel from Western Kentucky University in cooperation with personnel from Murray State University. Mike Kemp, Michael Jordan, and Andy Kellie of Murray State University were instrumental in providing primary education components for each workshop, and contributing their professional knowledge and skills to make each workshop a success. Mike Kemp served as the project manager for Murray State University, helping to give direction to the KNSE project and assist in all aspects of project planning and implementation.

Completion of the KNSE objectives and goals would not have been possible without the assistance of key personnel at Western Kentucky University (WKU). Bill Basham served as the original project manager for WKU and helped to initiate the objectives of the grant. However, Mr. Basham retired prior to completion of the project. Therefore, a graduate assistant, Mareesa Hunt, assumed the role of Mr. Basham for the KNSE project. This project would not have been possible without the dedicated efforts of Ms. Hunt. Others at WKU who assisted with aspects of the project and final conference included Jerrod Nelms, Lynlee McKee, and Shaden Melky.

Lastly, a special thank you goes out to Brooke Shireman with KDOW. Ms. Shireman served as the technical director for the project and was a great source of guidance for all aspects of the project. We appreciate the opportunity to work with Ms. Shireman and KDOW in completing the KNSE project.

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Executive Summary

The purpose of the Nonpoint Source (NPS) Pollution Control project was to

develop an education/outreach workshop program, Kentucky Nonpoint Source Education

(KNSE) for Land Use Development. KNSE provided education to prompt communities

to adopt more effective approaches to land use development. These workshops provided

education on methods, tools, and models to reduce land use development impacts to

water and water quality, and other natural resources. To accomplish this purpose, nine

workshops were conducted throughout Kentucky and the following objectives completed:

• Each workshop demonstrated and made information available concerning the use

of tools and model principles for reducing nonpoint source runoff, protecting

watersheds, and managing impervious cover.

• The project developed a program local trainers can transfer to local communities.

• A forum was provided within each workshop that allowed community leaders,

officials, and stakeholders to begin to assess their natural resources, such as

drinking water sources, and begin to develop awareness of land use development

that shall reduce nonpoint source pollution.

A conference was held at Western Kentucky University titled, "Planning for a

Stormy Future", that invited all previous workshop participants and other

stakeholders. The conference featured workshops and presentations by experts in

the field of land use development and focused on tools, models, and methods of

reducing NPS impacts.

Each workshop was conducted at a site that was accessible to the public and

provided a central location within the focal city. Workshops were conducted in the cities

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of Glasgow, Elizabethtown, Murray, Madisonville, Lexington, Somerset, Paducah, Campbellsville, and Bowling Green. Workshops included education on reducing nonpoint source impacts from land use development. The education presentations provided by each workshop included an introduction to watersheds, nonpoint source pollution impacts from land use development, a stream assessment exercise, stormwater runoff calculations and exercises, and best management practices for site design and development. Following each workshop, attendants completed an evaluation form and evaluated the components of the workshop.

WKU, and subcontracting partner, Murray State University (MSU) involved the public in project development. For each locality that a workshop was held, WKU and MSU first solicited interest from the local planning commission. Each workshop addressed local experts, such as water pollution control professionals, natural resource managers, developers, engineers, and stakeholders that directly monitor and/or influence land use development. Based on this network we held nine successful workshops throughout western and central Kentucky. Additionally, the final conference was held on the campus of WKU. Lastly, WKU adhered to recommendations made by the Cabinet and advisors for public involvement.

KNSE workshops were attended by participants from construction and development companies, consulting firms, state and local government, education, non profits, and the community. A total of 132 participants were engaged through nine workshops. The final conference, "Planning for a Stormy Future", on November 9, 2006 was attended by 60 participants and included seven workshops.

Introduction and Background

The starting point for the KNSE program is that nonpoint source pollution is a major contributor to water quality impairments throughout Kentucky. Within the major watersheds of Kentucky, we find that fecal contamination, pesticides, and sediment are widespread nonpoint contaminant issues (KEPPC, 2006). As we face these issues, urban areas of Kentucky continue to grow, creating other potential sources of nonpoint source pollution. Increased runoff from development and land use changes, resulting from greater impervious cover, will continue to be a challenge to sustaining water quality in our streams and rivers. The greater challenge in Kentucky is that rural counties and urban communities may share the same watershed, yet different jurisdictional boundaries, and municipal officials. Therefore, different attitudes toward growth and development may exist.

The key question for this project was: What can communities do to plan for smart growth and reduce nonpoint source pollution? Through the KNSE program we developed and implemented a series of nine (9) workshops in Western and Central Kentucky, with two locations chosen by the Kentucky Division of Water (DOW). The result was a pilot program addressing nonpoint source pollution education and land use development. Through the workshops, local leaders and officials, community representatives, developers, engineers, environmental scientists, constructions workers, regulatory officials, educators, and other stakeholders learned to communicate and address the basics of nonpoint source pollution, urban runoff, better site design for water quality protection, and watershed-friendly development. The workshops were both designed to train-the-trainer and increase awareness of government officials, community

leaders, and other stakeholders. Overall, the program focused to help communities understand how they can work more effectively to reduce the nonpoint source water quality impacts of land use development in local watersheds.

Each workshop was tailored to address real local issues. In part, the workshops were based on information available from the Nonpoint Education for Municipal Officials program, the Center for Watershed Protection, Watershed Watch, Universities, Water Utilities, and other local stakeholders. The program drew from local organizations, such as Kentucky Rural Water, that work with local communities at the sub-watershed level.

Finally, the KNSE program was concluded with a final conference, on November 9, 2006. This conference included a low impact development workshop, and presentations covering the following: city-level methods to address nonpoint source impacts of development, Kentucky best management practices for controlling runoff from construction sites, watershed guidelines for low impact, Kentucky growth readiness program, and natural infrastructure for water management. The conference concluded the major objectives of the project.

Materials and Methods

The following section describes the Materials and Methods utilized in developing and implementing the KNSE program. Materials and Methods were approved by DOW prior to implementation.

Development and Implementation of Workshop Materials

A primary task of the KNSE project was to develop presentation materials for use in the workshops. The materials were designed for use with community groups, and to provide reference materials for trainers. Materials developed for KNSE can be adopted by any organization for nonpoint source pollution education. Although the material was Kentucky specific, it was based on general nonpoint source information that is readily accessible to the public (USDA, 1986; U.S. GAO, 1990; WEF and ASCE, 1998; CWP, 1999; USEPA, 1999; DeLorme, 2006; KEPPC, 2006; Project Wet, 2006). Development of workshop materials consisted of organizing a team of advisors for guidance, gathering the needed content, developing Kentucky specific presentation materials, developing workshop manuals, approval of materials by DOW, acquiring local support, and creating partnerships with local experts and officials.

Following completion and of the workshop materials we organized and implemented nine (9) workshops in western and central Kentucky. Workshops were held in the following Kentucky cities: Glasgow, Elizabethtown, Murray, Madisonville, Lexington, Somerset, Paducah, Campbellsville, and Bowling Green. To facilitate implementation we created a brochure that described the program and the goals of the project (example for Glasgow, KY workshop). Each workshop was promoted by contacting local developers, engineers, construction companies, officials, and other

stakeholders. Brochures for each workshop were mailed to the stakeholders and registration was taken by phone and email. Additionally, we posted all workshop dates on the KNSE website (http://www.wku.edu/waterhealth/KNSE/) and all workshop opportunities were sent to the Kentucky nonpoint source email listserv by DOW personnel.

On the day of each workshop we started onsite registration at 8:00 a.m.

Therefore, we would have participants register, listing the organization they represented.

Additionally, this allowed stakeholders not registered by phone or email to attend the workshop. Additionally, we worked with the Kentucky Chapter of the American

Planning Association, the local planning commission, and the Kentucky League of Cities to have the KNSE workshops fulfill continuing education credit for the organizations.

This in turn encouraged planners, city officials, and personnel to participate.

Each workshop would begin with an overview of the material to be covered.

Next, an overview of watersheds would be presented by Mike Kemp of Murray State

University (MSU). Following this, Ritchie Taylor with WKU, would present nonpoint
source pollution and land use development, focusing on the nonpoint source water quality
impacts of land use development. Dr. Taylor would complete this section of the
workshop by having participants complete a stream assessment exercise. In the afternoon
session of each workshop, Andrew Kellie of MSU would present stormwater runoff
calculations. This section would be concluded by having each participant complete
stormwater runoff calculations. Also, the Win TR-55 (USDA, 1986) computer model
was demonstrated as a tool for stormwater calculations. Lastly, Michael Jordan of MSU
would complete each workshop with a presentation on site planning design and best

management practices. Materials covering these topics and the presentations were bound in a workshop binder. These materials are included with the submission of the final report and have previously been submitted to DOW for approval, prior to conducting the workshops. Workshop materials were given to each participant.

KNSE Website

A KNSE website (www.wku.edu/waterhealth/KNSE) was developed by WKU personnel and approved by DOW. During the initial phases of the project we will develop and implement a KNSE website. Both Western Kentucky University and Murray State University sponsored the web site. All web content was based on recommendations from the team of advisors, DOW, and local stakeholders. We constructed a user-friendly format that was accessible even to novice and expert computer users alike. The focus of the website was nonpoint source pollution and land use development. The website included links to pertinent information, presentations, workshop schedules, speaker and personnel information, nonpoint source guidance, and Kentucky specific content.

Website use was monitored by WKU personnel and consisted of a basic report of pageloads, unique visitors, returning visitors, and first time visitors. Website use was monitored for the entirety of the project.

Assessment of KNSE Program

To assess the KNSE program we monitored web site use, held a follow-up conference at WKU, and provided post workshop and conference assessments to participants. These assessments were reviewed to facilitate improvement of the workshops and understand the needs of the participants.

KNSE Final Report Grant Number: #C9994861-03

Results and Discussion

- To develop an education/outreach program that leads communities to adopt more
 effective approaches to land use development that reduces impacts to water and
 water quality, and other natural resources.
- To demonstrate and make information available concerning the use of tools and model principles for reducing nonpoint source runoff, protecting watersheds, and managing impervious cover.
- To develop a program local trainers can transfer that to local communities.

To provide a forum where community leaders, officials, and stakeholders can assess their natural resources, such as drinking water sources, and begin to develop awareness of land use development that will reduce nonpoint pollution.

KNSE Workshops

A primary objective of the KNSE project was to develop an education/outreach program that leads communities to adopt more effective approaches to land use development. Also, we wanted to develop a program that reduces impacts to water and water quality, and other natural resources. The KNSE education/outreach program was developed with oversight by DOW. Results of this development were a binder of materials that were presented in each workshop. Workshop binders were approved by DOW and given to each participant. A total of nine (9) workshops were completed, as specified in the plan of work, with a total of 132 participants. Workshops occurred at the following locations and dates. The brochures are included in Appendix 1 (brochures also included on enclosed cd):

- Glasgow, KY December 2, 2005
- Elizabethtown, KY January 6, 2006
- Murray, KY January 13, 2006
- Madisonville, KY January 27, 2006
- Lexington, KY April 7, 2006
- Somerset, KY April 28, 2006
- Paducah, KY May 5, 2006
- Campbellsville, KY July 28, 2006
- Bowling Green, KY September 29, 2006

The average number of participants per workshop was 15 (132/9 = 14.66667). The goal specified in the original proposal was 15 participants per workshop. According to the registered participants this goal was achieved.

Review of the workshop attendance sheets (Appendix 2) indicates that 56% of the participation occurred in only three locations: Paducah, Elizabethtown, and Glasgow. We conclude that these areas represent locations that are just not reaching the point of working to reduce the impacts of nonpoint source pollution from land use development. Although we had workshops in more populated areas, Bowling Green and Lexington, these areas already have major nonpoint source education programs through local stormwater entities. Likewise, in review of the attendance sheets, we found that most participants represented state environmental officials (19%), city officials (16%), consulting engineers (15%), academia (14%), environmental scientist/consultants (11%), development/construction contractors (9%), and public works/water utilities (9%). The

remainder of participants was from various categories including environmental nonprofits, state infrastructure planning, agriculture, and transportation. Numbers for participants in academia were inflated due to the workshops being hosted at community colleges or universities.

KNSE Conference

The KNSE "Planning for a Stormy Future" conference held November 9, 2006 had a total of sixty (60) participants. This conference included a low impact development workshop, and presentations covering the following: city-level methods to address nonpoint source impacts of development, Kentucky best management practices for controlling runoff from construction sites, watershed guidelines for low impact, Kentucky growth readiness program, and natural infrastructure for water management. The conference concluded the major objectives of the project. The program and attendance sheets for the conference are included in Appendix 3.

KNSE Evaluation and Assessment

Evaluation forms were completed by participants at the conclusion of each workshop and following the "Planning for a Stormy Future Conference". Evaluation forms received for the workshops showed that participants ranked the quality high. Accordingly, the overall ratings for all workshops were 35% excellent, 48% very good, 15% good, and only 2% fair (93 respondents). In no case was a workshop ranked as poor. According to the workshop evaluations the creation of a quality educational program was achieved.

Evaluations for the conference showed that most participants did not respond, either due to leaving prior to completing the form or failing to complete the evaluation.

In any case, there were only 18 evaluation forms returned. Of that total 50% rated the conference as excellent, 44% very good, and 6% good. In no case was the conference ranked fair or poor by a participant (Evaluation forms are on file at WKU).

Evaluation results indicated that the KNSE project was a success with participants. A reoccurring thought in the evaluations was that the BMP and stormwater calculations modules of the workshops should be given more time.

Based on the results of the evaluations from the workshops and the conference, the KNSE project was a success. Most respondents to the evaluations ranked the programs offered as excellent (35-50%) or very good (48-44%). Only 2% of all workshop respondents ranked the workshops as fair.

The purpose of the Nonpoint Source (NPS) Pollution Control project was to develop an education/outreach workshop program, Kentucky Nonpoint Source Education (KNSE) for Land Use Development. KNSE provided education to prompt communities to adopt more effective approaches to land use development. These workshops provided education on methods, tools, and models to reduce land use development impacts to water and water quality, and other natural resources. To accomplish this purpose, nine workshops were conducted throughout Kentucky and the following objectives completed:

- Each workshop demonstrated and made information available concerning the use of tools and model principles for reducing nonpoint source runoff, protecting watersheds, and managing impervious cover.
- The project developed a program local trainers can transfer to local communities.
- A forum was provided within each workshop that allowed community leaders, officials, and stakeholders to begin to assess their natural resources, such as drinking water sources, and begin to develop awareness of land use development that shall reduce nonpoint source pollution.
- A conference was held at Western Kentucky University titled, "Planning for a Stormy Future", that invited all previous workshop participants and other stakeholders. The conference featured workshops and presentations by experts in

the field of land use development and focused on tools, models, and methods of reducing NPS impacts.

Finally, the results from the project indicate that a few well spaced and located workshops would be more effective than many. Our results showed that 56% of participants were in attendance at only three workshops (Paducah, Elizabethtown, and Glasgow). It may be that additional educational opportunities and training should be offered to these areas. Likewise, planning should be done in the initial phases of nonpoint source educational programs to determine locations that are in the midst of dealing with stormwater, land use development, and nonpoint source runoff issues.

Literature Cited

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Appendices

Appendix 1

KNSE Workshop Brochures

Kentucky Nonpoint Source Education



December 2, 2005 8:00 AM (CST)

Western Kentucky University, Glasgow Campus 500 Hilltopper Way Glasgow, KY 42141





Kentucky Nonpoint Source Education (KNSE) workshops are being conducted to inform local stakeholders about better land use development practices to reduce nonpoint source pollution.

Project Goals, Objectives & Activities:

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"This work was funded in part by a grant from the U.S. Environmental Protection Agency under §319(h) of the Clean Water Act through the Kentucky Division of Water to Western Kentucky University (Grant #C9994861-03)."

PROGRAM

8:00	Registration
8:20	Welcome Bill Basham, WKU EHSRC Coordinator
8:30	Introduction to Watersheds Exercise 1: Sum of the Parts Exercise 2: Color Me a Watershed Mike Kemp, Ph.D., Murray State University
9:45	Break
10:00	Exercise 3: Watershed Delineation Exercise 4: Community Watersheds Mike Kemp, Ph.D., Murray State University
11:00	Nonpoint Source Pollution & Land Use Development Exercise 1: Stream Assessment Ritchie D. Taylor, Ph.D., Western Kentucky University
12:00	Lunch
1:00	Stormwater Runoff Calculation Andrew Kellie, Ph.D., Murray State University
2:45	Break
3:00	Site Planning Design & Best Management Practice Exercise: Land Use Model Michael Jordan, Ph.D., Murray State University
4:30	Adjourn

RSVP to Bill Basham, WKU, bill.basham@wku.edu or call 270-745-8846

DIRECTIONS TO THE WESTERN KENTUCKY UNIVERSITY GLASGOW CAMPUS

Glasgow Regional Center 500 Hilltopper Way Glasgow, KY 42141 (270) 659-6900



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Kentucky Nonpoint Source Education for Landuse Development



January 6, 2006 8:00 AM (EST)

Elizabethtown Community & Technical College Campus Central Regional Postsecondary Education Center, Room 421 610 College Street, Suite 401 Elizabethtown, KY 42701-3208

CEU Available for KAPA, APA, AICP, & Kentucky League of Cities





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2:45	Break
3:00	Site Planning Design & Best Management Practice Michael Jordan, Licensed Architect, Murray State University
4:30	Adjourn

RSVP to Bill Basham, WKU, bill.basham@wku.edu or call 270-745-8846

DIRECTIONS TO THE

ELIZABETHTOWN COMMUNITY & TECHNICAL COLLEGE CAMPUS

From points South of Elizabethtown:

- Proceed to I-65 North and take Exit 91 (first Elizabethtown exit).
- Follow signs to 31W By-pass.
- You will be routed for about a quarter mile on the Western Kentucky Parkway.
- Exit WK parkway onto 31W By-pass.

From points North of Elizabethtown:

- Take I-65 from Louisville to Exit 94.
- Turn right off Exit 94 onto Hwy 62 and proceed through Elizabethtown to 31W By-pass.
- Turn right to 31W By-pass off Hwy 62.
- Follow the instructions listed above to the WKU Office.

Directions for both North and South inbound:

- At the first light, turn left onto College Street Road.
- Take the second street on the right, this is directly between the Elizabethtown Community College and the Elizabethtown Technical College.
- Take the first right, this will take you into the parking lot.
- The Central Regional Post Educational Building is the building directly behind the flag pole.

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Kentucky Nonpoint Source Education for Landuse Development



January 13, 2006 8:00 AM (CST)

Murray State University
Industry & Technology Center
IT Building Room 229
Murray, KY 42071

CEU Available for KAPA, APA, AICP, & Kentucky League of Cities





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RSVP to Bill Basham, WKU, bill.basham@wku.edu or call 270-745-8846 DIRECTIONS TO THE

MURRAY STATE UNIVERSITY IT BUILDING ROOM 229



From the northeast via Bluegrass Parkway

Take Bluegrass Parkway to Western Kentucky Parkway. Continue west to I-24. Exit 25A to the Purchase Parkway. Proceed south approximately 15 miles, then exit onto Hwy 641 South Spur (sign marked Murray State University - Exit 41). Drive south to Murray. Turn right on Chestnut Street. Turn left into the parking lot just before reaching 16th Street.

From the east or west via Hwy 68/80 From I-24, take Exit 65 to Cadiz/Hopkinsville and proceed west approximately 30 miles. Turn left onto Hwy 641. Drive south to Murray.

From the east or west via I-24

Take the Purchase Parkway at Exit 25A and proceed south approximately 15 miles. Exit onto Hwy 641 (sign marked "Murray State University - Exit 41") and drive south to Murray. Turn right onto Chestnut Street and turn left into the parking lot just before reaching 16th Street.

From the east or west via I-40

Take I-40 to Hwy 641 and proceed north to Murray. Turn left onto Chestnut Street and then turn left into the parking lot just before reaching 16th Street.

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Kentucky Nonpoint Source Education for Landuse Development



January 27, 2006 8:00 AM (CST)

Murray State University Madisonville Regional Campus John H Gray Building Room 337 2000 College Dr Madisonville, KY 42431-9185

CEU Available for KAPA, APA, AICP, & Kentucky League of Cities





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RSVP to Bill Basham, WKU, bill.basham@wku.edu

or call 270-745-8846

DIRECTIONS TO THE

MADISONVILLE REGIONAL CAMPUS

JOHN H GRAY BUILDING RM 337



Traveling North on the Pennyrile Parkway

- Take the Madisonville Exit #44
- Turn left at the first stoplight on to HWY 41A
- Go 1 mile and turn right at the 4-way intersection with McDonald's and Arby's (North Main Street)
- Go 1 mile and turn left onto College Drive
- College Drive will end at Madisonville Community College

Traveling South on the Pennyrile Parkway

- Take the Madisonville Exit #44
- Turn right at the end of exit ramp onto HWY 41A
- Go 1 mile and turn right at the 4-way intersection with McDonald's and Arby's (North Main Street)
- Go 1 mile and turn left onto College Drive
- College Drive will end at Madisonville Community College

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Kentucky Nonpoint Source Education for Land Use Development



April 7, 2006 8:00 AM (EST)

Bluegrass Community & Technical College Central Kentucky Technical College – Leestown Campus 164 Opportunity Way Lexington, KY 40511-2623

CEU Available for KAPA, APA, AICP, Kentucky League of Cities & "we believe the information presented herein will count for PDU's for architects."





Kentucky Nonpoint Source Education (KNSE) workshops are being conducted to inform local stakeholders about better land use development practices to reduce nonpoint source pollution.

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- To develop an education/outreach program that leads communities to adopt more effective approaches to land use development that reduces impacts to water and water quality, and other natural resources.
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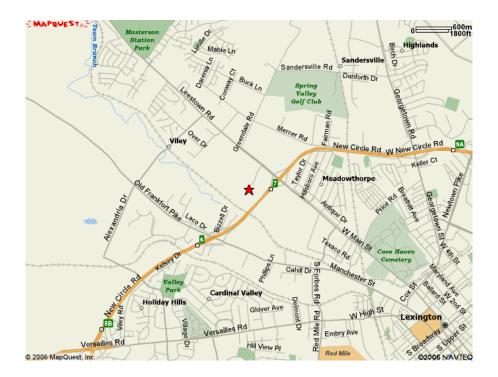
"This work was funded in part by a grant from the U.S. Environmental Protection Agency under §319(h) of the Clean Water Act through the Kentucky Division of Water to Western Kentucky University (Grant #C9994861-03)."

PROGRAM

8:00	Registration
8:20	Welcome
8:30	Introduction to Watersheds Exercise 1: Sum of the Parts Exercise 2: Color Me a Watershed Mike Kemp, Ph.D., Murray State University
9:45	Break
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11:00	Nonpoint Source Pollution & Land Use Development Exercise 1: Stream Assessment Ritchie D. Taylor, Ph.D., Western Kentucky University
12:00	Lunch
1:00	Stormwater Runoff Calculation Andrew Kellie, PLS, Murray State University
2:45	Break
3:00	Site Planning Design & Best Management Practice Michael Jordan, Licensed Architect, Murray State University

RSVP to Mareesa Hunt, WKU, huntmh@wku.edu or call 270-745-8846

DIRECTIONS TO THE LEESTOWN CAMPUS, 164 OPPORTUNITY WAY (304 VOTECH RD), LEXINGTON, KY



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Kentucky Nonpoint Source Education for Land Use Development



April 28, 2006 8:00 AM (EST)

The Center for Rural Development 2292 S. Hwy. 27 Somerset, KY 42501

CEU Available for KAPA, APA, AICP, Kentucky League of Cities & "we believe the information presented herein will count for PDU's for architects."





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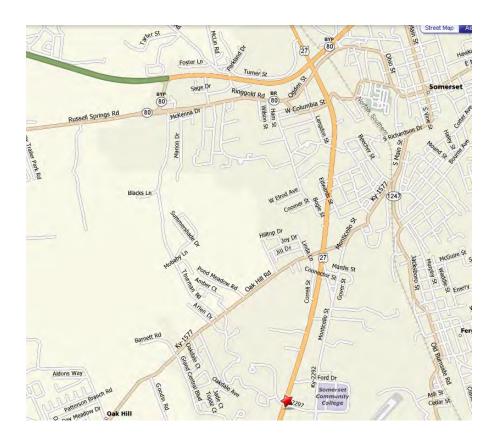
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DIRECTIONS TO THE CENTER for RURAL DEVELOPMENT, 2292 S Highway 27, SOMERSET, KY



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Kentucky Nonpoint Source Education for Land Use Development



May 5, 2006 8:00 AM (EST)

Whaler's Catch Restaurant 123 N 2nd St, Paducah, KY

CEU Available for KAPA, APA, AICP, Kentucky League of Cities & "we believe the information presented herein will count for PDU's for architects."





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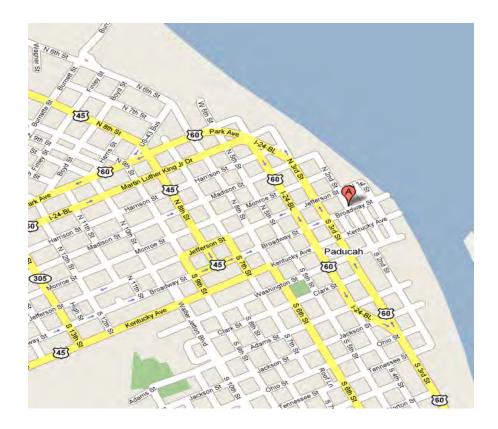
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DIRECTIONS TO THE CENTER for RURAL DEVELOPMENT, 2292 S Highway 27, SOMERSET, KY



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Kentucky Nonpoint Source Education for Land Use Development



July 28, 2006 8:00 AM (EST)

Campbellsville University
E. Bruce Heilman Student Complex, Winters Dining Hall
1 University Drive
Campbellsville, KY 42718

CEU Available for KAPA, APA, AICP, Kentucky League of Cities & "we believe the information presented herein will count for PDU's for architects."





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3:00	Site Planning Design & Best Management Practice Michael Jordan, Licensed Architect, Murray State University

Kentucky Nonpoint Source Education for Land Use Development



September 29, 2006 8:00 AM (EST)

Western Kentucky University
Science and Technology Hall, EHS Computer Labl
1906 College Heights Blvd.
Bowling Green, KY 42101

CEU Available for KAPA, APA, AICP, Kentucky League of Cities & "we believe the information presented herein will count for PDU's for architects."





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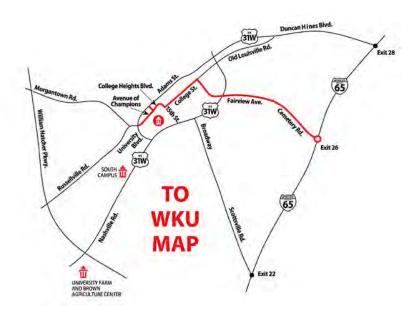
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DIRECTIONS TO: WESTERN KENTUCKY UNIVERSITY, 1906 COLLEGE HEIGHTS BLVD., STH, BOWLING GREEN, KY



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Appendix 2 Workshop Attendance Sheets

KNSE Final Report Grant Number: #C9994861-03

KNSE Final Report Grant Number: #C9994861-03

Glasgow, KY Workshop

			Registration Sheet	et		
П		Title	Address	City, Zip	Phone	EW9]
	WKU	Student				any davidson@wauedu
	WKU	Shotent				oshua wheat@wku.edu
	MKU	Shoeri				soot dean@wku.edu
	KY DOW		14 Rolly Rd	Frankfort, KY 40501		ee Colon@ky.gov
		and the second of the second			502-564-3410 ext.	
	KYDOW	Urban Environmental Tech II	14 Relly Rd	Frankfort, KY 40801	563	rooke shiremen@ky.gov
ľ	WKU	Student				steven.foley@wku.edu
ľ	City of Richmond				859-623-1000	proberts@richmond.ky.us
ı.	WKU	Student				cathy.wester@wku.edu
•	American Engineers	Staff Engineer		Glasgow	270-651-7220	charbison@ae.cc
١.	Scott & Murphy, Inc.	Engineer	P.O. Box 2520	Bowing Green	270-781-9944 x143	270-781-9944 x143 GCorner@scottandmurchy.com
98	City of Hillniew (Bullett Co)	Public Works Director		Hillview, KY	502-957-2841	
LHam	Harry City of Hillnew (Bullett Co.)			Hillview, KY	502-957-2841	
ľ	Kentucky Transportation Cabinet	District Environmental Coordinator	PO Box 780	Somerset, KY	606-677-4017	Cathi Blair@ky.gov
	Bluegrass ADO	Regional Planner	699 Perimeter Dr.	Lexington, KY 40503		alread@boadd.org
•	Third Rock Consultants	10	2514 Regency Road, Suite 104	Lexington, KY 40503	859-977-2000	soulook@hirdrookonsuitants.com
B P	ne P. P. Division of Geographic Information. Remote Sensing and GIS Analyst	Remote Sensing and GIS Analyst	1025 Capital Center Drive - Suite 101 Frankfort KY 40601	Frankfort KY 40601	502-573-1450 ext 34	502-573-1450 ext. 3452Demetrio.Zouraraks@ky.gov
ľ	Alliance Corporation	Safety Director	116 East College, Box 1480	Glasgow, KY 42141	270-651-8648	watkins@eliancecorporation.com
					859-224-4476 ext.	
	H.W. Lochner, Eng. & Planners	Planner	1040 Monarch St., Ste. 300	Lexington, KY 40513	224	ngabraith@hwlochner.com
	Rockastle County Conservation D	Rocksastle County Conservation Di Roundstone Watershed Coordinator	Rt. 4, Box 374A	Mount Vernon, KY 40456	806-256-2525	
	ENSAFE			Bowing Green	270-783-0662	
l	BNSAFE				270-783-0662	
	Green & Tradewater River Basins CKY. Div. of Water	KY. Div. of Water	1508 Western St.	Bowing Green, KY 42104	270-746-7475	dalen reynolds@ky.gov

Kentucky Nonpoint Source Education Workshop Attendance Sheet

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Compbells wille water 270.465-7011
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Campbellsville, KY 42718 270-789-1891
Comphellaille 14 4278 22-789.3133
Campbellswille Ky 4278 270-787-3133
CAMPB:116316-16 2907898182
CAMPBELISHILE, KY42718 270 789-6861.

Kentucky Nonpoint Source Education Workshop Attendance Sheet

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Kentucky Nonpoint Source Education Workshop

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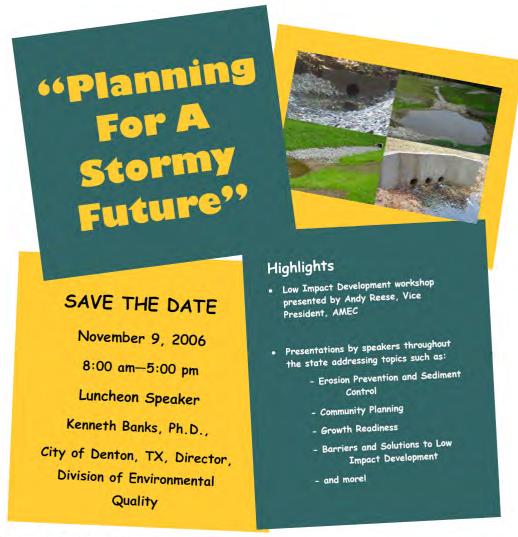
Kentucky Nonpoint Source Education Workshop Attendance Sheet

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Appendix 3 Conference Brochure, Program, and Attendance Sheets



Western Kentucky University 1906 College Heights Blvd Bowling Green, KY 42101

Kentucky Museum and WKU Visitors Center Kentucky Room 2nd Floor

Contact person: Mareesa Hunt 270.779.1978 or huntmh@wku.edu

Time: 8:00 am—5:00 pm Date: November 9, 2006

Registration—FREE

Grant Number: #C9994861-03

CONFERENCE INFORMATION

Conference Fee

Conference is FREE for all participants.

The Kentucky Museum & WKU Visitors Center Location

Bowling Green, KY 42101-1082 http://www.wku.edu/Library/museum/ 1906 College Heights Blvd. 11082 Western Kentucky University

Contact Information

For additional conference information visit www.wku.edu/waterhealth/KNSE, or contact Marcesa Hunt at huntmh@wku.edu or call (270) 779-1978.

Registration

organization, address, phone number and email address) to huntmh@wku.edu. You may also register by phone at (270) 779-You may email your registration information (Name, title,

DEADLINE FOR REGISTRATION **NOVEMBER 6, 2006**

More Information

more information on speakers and course descriptions. You may visit our website at www.wku.edu/waterhealth/KNSE for

"This work was funded in part by a grant from the U.S. Environmental Protection Agency under §319(h) of the Clean Water Act through the Kentucky Division of Water to Western Kentucky University (Grant #C9994861-03)."

8:00 AM 8:30 AM CONFERENCE SCHEDULE

Registration

9:00 - 11:45 AM Low Impact Development Workshop Andy Reese, VP, AMEC Morning Concurrent Sessions 9:00 - 9:45 AM Barry Kew, Asst. Prof. Landscape Architecture Watershed Guidelines: Communicating a Path for Taking Action Dodd Galbreath, TN Dept. of Agriculture Water, Everyone's Responsibility Tim Slattery, City of Bowling Green University of Kentucky 11:00 - 11:45 AM Natural Infrastructure for Water 10:00 - 10:45 AM

12:00 - 1:00 PM

of Environmental Quality Kenneth Banks, Ph.D., City of Denton, TX, Dir., Div

(This is a repeat of the morning's workshop) 1:15 - 4:00 PM Low Impact Development Workshop Andy Reese, VP, AMEC Afternoon Concurrent Sessions
1:15 - 2:00 PM Kentucky Growth Readiness Program
TBA TX, Dir., Div. of Environmental Quality for Water Supply Protection Kenneth Banks, Ph.D., City of Denton, Environmentally Sensitive Areas: Using a Watershed-Scale Regulatory Mechanism 3:15 - 4:00 PM Kentucky Best Management Practices for Controlling Erosion, Sediment, and Pollutant Runoff From Construction Sites: 2:15 -3:00 PM Barry Tonning, Tetra Tech Planning and Technical Specifications

Closing

4:30 PM

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Planning For a Stormy Future Attendance Sheet

Western Kentucky University, KY Museum, 1906 College Heights Blvd., Bowling Green, KY 42101

November 9, 2006 8:00 AM - 5:00 PM

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Name	Organization	Title
1 Wanner, Murray	City of Radcliff	Planner
2 Richardson, Danny	City of Radcliff	Building Inspector
3 Roth, Charles	Division of Water	Environmental Inspector III
Reynolds, Dale	Division of Water	Green & Tradewater River Basins Coordinat
4 Glabraith, Michael	H.W. Lochner, Inc. Engineers & Planners	Planner
5 Brackett, Vicki	Hardin County Engineering Department	County Engineer
6 Perry, Julie	City of Madisonville	Staff Engineer
7 Jackson, Bill	City of Madisonville	City Engineer
8 Cox, Will	City of Madisonville	Ward 6 Councilperson
9 Winstead, Bob	City of Madisonville	Ward 3 Councilperson
10 Simmons, Bob	City of Madisonville	Ward 5 Councilperson
11 Farris, Dennis	City of Madisonville	Transportation Supt
ા, Kalyan	WKU	Student
13 Lewis, Jamar R.	WKU	Student
14 Schepers PE, SE, Joseph G.	City of Owensboro	City Engineer, PE, SE
15 Brasher PE, Mark	City of Owensboro	Assistant City Engineer PE
16 Taylor, Ritchie	WKU	Assistant Professor
	WKU	Heat Unit Coordinator
sa	WKU	Student
	MSU	Associate Professor
	WKU	Assistant Professor
21 Miller, Tony	Third Rock Consultants, Inc	Biologist
22 Skaggs, Charles	Cornette Engineering Services, Inc.	
23 Elrod, Robert	Warren Co Stormwater Mgmt	Stormwater Engineer
	Louisville Metro Planning & Design Services	Planner I, Neighborhood Planning
naitanya	WKU	Student
Nagy, Steve	WKU	Associate Professor
27 Shireman, Brooke	KYDOW	Urban Environmental Tech II, NPS Section
28 Wester, Cathy	WKU	Student
29 Gossage, Kevin	WKU	Student
30 Sunderman, Anne	KY Waterways Alliance	
31 Watkins, James	Alliance Corporation	Safety Director
32 Brown, Harold	City of Radcliff	Public Works Director
33 Sherrill, Adam	WKU	Student
34 Twyman, Carol	WKU	Student
Twyman, Arin	WKU	Student
	WKU	Student
37 Flickner, Jason	KY Waterways Alliance	Water Resources Program Director
38 Johnson, Michael	Contec Construction Products	Sales Engineer

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									Phoenix Environmental Engineers, Inc	WKU	WKU	WKU	WKU	Hopkinsville-Christian Co Planning Commiss Code Enforcement Officer	Paul Lynes, LLC	City of Franklin/Public Works	KY EPPC - DOW	Rockcastle Co. Conservation Service/The Na Roundstone Watershed Coordinator	Oldham County Sewer		KY Dept of Fish & Wildlife Resources
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