

§319(h) Grant # C9994861-99

**The Green River Watershed Demonstration
Project**

Subproject 2 – Final Report

Work Plan Number: 99-31

**Memorandum of Agreement Number:
M-02272796**

September 1, 2002 – August 31, 2003

**Submitted by:
Jay Nelson – Green River CREP Coordinator**

**Adair County Conservation District
Edmonson County Conservation District
Taylor County Conservation District**

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Acknowledgments

Partners of the Green River CREP:

USDA FSA
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KY Division of Conservation
The Nature Conservancy, KY
Soil/Water Conservation Districts
KY Division of Water
KY Dept. of Fish & Wildlife Res.

USDA NRCS
Kentucky General Assembly
Mammoth Cave National Park
KY Soil/Water Conservation Commission
KY Division of Forestry
KY State Nature Preserves Commission

Special Thanks:

Barren County Agriculture Extension Office for providing meeting site for CREP informational meeting.

Green County High School for hosting CREP workshop.

Dave Foster and the American Cave and Karst Museum for hosting/planning/funding a "Cave Country Agricultural Field Tour" which focused primarily on CREP for local landowners.

Dr. Gordon Weddle and Campbellsville University for allowing us to conduct a field day at Clay Hill Memorial Forest as well as the local staff of all partnering agencies for their support and assistance.

Adair County Agriculture Extension Office for hosting the CREP Informational Meeting in Adair County

Taylor County Conservation District for administration of CREP Technician.

Adair County Conservation District for administration of CREP Technician.

Edmonson County Conservation District for administration of CREP Technician.

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Executive Summary

The Green River is the most biologically diverse and rich branch of the Ohio River system. The greatest aquatic diversity occurs in a 100-mile section of unhindered river that flows from the Green River Reservoir dam through Mammoth Cave National Park (the world's longest and most diverse cave system) in south central Kentucky. This section of the Green River Watershed includes 917,197 acres in the counties of Adair, Barren, Edmonson, Green, Hart, Metcalfe, Russell, and Taylor. Data indicates that agricultural runoff contributes high levels of sediment, nutrients, pesticides, and pathogens to the Green River and Mammoth Cave System. There are currently seven species listed as endangered by the U.S. Fish and Wildlife Service in the Green River System. In addition, the project area also includes several ecosystems recognized as endangered ecosystems of the United States, including native prairies, hardwood savannas, canebrakes, and old-growth deciduous forest.

On August 29, 2001 USDA and the Commonwealth of Kentucky agreed to implement a **Conservation Reserve Enhancement Program (CREP)** on the above referenced section of the Green River to restore up to 100,000 acres. The Nature Conservancy also was a primary contributor, offering permanent easements to landowners in addition to CREP contracts.

Goals and objectives of Green River CREP and, therefore work done for this project:

- To reduce by 10% the amount of sediment, nutrients, and pesticides from agricultural sources entering the tributaries and main stem of the Green River and Mammoth Cave System through the installation of Best Management Practices (BMPs) designed for that purpose, and other conservation practices designed to improve water quality.
- To enhance habitats and populations of wildlife, including those listed as state and federal special concern, rare, threatened and endangered.
- To sustain and restore the composition, structure, and function of riparian habitat corridors associated with the Green River and tributary watersheds.
- To reconnect habitat types in order to restore the full range of ecosystem function.
- To establish buffers around sinkholes, targeting 1,000 high priority sinkholes.
- To sustain and restore non-riparian wetlands.
- To protect and restore subterranean ecosystems.
- To collect, store, and analyze data to enhance planning for sustaining the health of the watershed.
- To develop an outreach program targeting all active agricultural producers in the area.
- To utilize native species, including warm season grasses, to the greatest extent possible.

What Is CREP?

CREP is an enhanced version of the USDA Conservation Reserve Program (CRP), which has been the federal government's largest, most comprehensive private lands environmental improvement program. CRP and CREP help save millions of acres of topsoil from erosion, protect surface and ground waters by reducing runoff and sedimentation, increase wildlife habitat, and improve air quality. Because the section of the Green River referenced above has been identified as such a special place, partner agencies felt that the enhanced version of the CRP would be ideal for this area. This "enhancement" is primarily financial, thus directly benefiting the producer/landowner in CREP areas (for example, some practices installed under a CREP contract can pay up to a 100% increase over standard CRP rental payments for the same practice). This is an entirely voluntary land "set aside" program, offering enhanced annual rental, cost share, and incentive payments that exceed that of CRP. In addition to the payments referenced above, landowners may elect to enter this land into a supplemental permanent conservation easement to receive additional incentive payments. CREP contracts may last from 10 to 15 years, and signup is continuous within the eight-county CREP region within Kentucky.

Subproject-2 of the Green River Watershed Demonstration Project establishes three of the water quality technician position in demonstration area and funds the positions for a period of seven (7) months, revised to five (5) months. Because Subproject-2 is concurrent with the completion of Pre-BMP monitoring under Subproject-1, the Water Quality Technicians efforts were directed toward promoting interest in the CREP program rather than on BMP implementation or easement acquisition. Particular emphasis was placed on landusers in the area of the CREP in which Pre-BMP monitoring is occurring.

Matching funds of \$18,035.00 were from BMP activities as follows: The applications were all in Fleming County, #01-035-86, BMP practice KWP-4, installed 3/23/03; #01-035-19, BMP practice #KWP-4, installed 2/5/03; and #02-035-043, BMP practice #KWP4, installed 2/7/03. These practices were demonstrated at various field days.

Introduction and Background

As stated above, this is a significant conservation program within the state of Kentucky that will have major impacts on water quality within the Green River Basin. Although this is a \$110 million program, no money has been designated within this effort for the increased workloads that will be involved with partner agencies in the field or for the monitoring involved to determine success. Because of this, 319(h) funding was sought to employ three water quality technicians within the Green River CREP region to assist with a variety of activities, ranging from public relations, environmental education, field assistance with program implementation to some potential water quality monitor assistance. Overall objectives and goals for the Green River CREP have been listed in the

"Executive Summary" section. For further information on the Green River CREP, or CREP in general, please refer to www.usda.gov, or a site will soon be complete at the Kentucky Division of Conservation web site. www.conservation.ky.gov

Materials and Methods

The CREP section of the Green River Watershed includes 917,197 acres in the counties of Adair, Barren, Edmonson, Green, Hart, Metcalfe, Russell, and Taylor. This includes several major tributaries, including, but not limited to the Little Barren River, Russell Creek, Big Pittman Creek, and Big Brush Creek. Three water quality technicians have been hired within this eight-county area to assist with the CREP program. Technicians have been assigned to work primarily in 2 counties each, with some variation allowed so that remaining counties will be covered as well. The pairings are, per tech, Taylor-Green, Russell-Adair, and Metcalfe-Edmonson, with Barren and Hart receiving assistance as needed. Land use in the entire area is primarily dominated by cropland and pastureland, with a higher percentage of forested land in the eastern portion of the region. The topography here is gently rolling, with the western half of the region nearly entirely dominated by karst topography and hydrology.

Because Subproject-2 is concurrent with the completion of Pre-BMP monitoring under Subproject-1, the WQT efforts were directed toward promoting interest in the CREP program rather than on BMP implementation or easement acquisition. Particular emphasis was placed on landusers in the area of the CREP in which Pre-BMP monitoring is occurring.

The technicians' duties within the scope of this program were highly varied, depending on the needs of the counties in which that person worked. Early duties included primarily public relations work to educate the local producers on the program. This was often done on a one-on-one basis. This evolved into working with local authorities on planning and conducting field days, local meetings, writing news articles for local papers, producing radio ads, and various other forms of public relations. This effort will continue throughout the project, but this has tended to dominate early efforts of the techs to get the program off the ground. These techs also work closely with local NRCS and FSA personnel to put these BMPs on the ground. This included a variety of work from office work such as report writing, landowner tracking, and contract work to field work such as measuring, practice guidance, and general assistance on the installation of BMPs. As more is learned about this program, technician duties are continuing to evolve to meet the needs of the program.

Results and Discussion

As the above text indicates, the focus of this program is to improve water quality through BMP installation. Due to the scope and length of this program and the other duties and focus of the technicians, there will be no "final" results in this report, but rather updates on progress made to this point. Water quality monitoring is still in "baseline" stages, so the primary tracking and assessment of success is through BMP monitoring.

Upon the writing of this report, 5,062.3 acres have been enrolled into BMP's within CREP. The dominant two BMPs being employed are Native Grass Plantings (CP-2) and Riparian Buffer (CP-22). There are 2,471.2 acres enrolled in Native Grass Plantings, and 2,435.8 acres enrolled in Riparian Buffers. The remaining acreage is in other BMPs, such as introduced grasses, filter strips, and tree plantings. With regards to discussion on distribution of BMPs enrolled by county, several patterns have emerged. Riparian buffers seem to be the more dominant practice in counties which border the main-stem Green River, as buffers there may be 1,000 feet, as opposed to 300 feet on tributaries. The native grass planting is by far most prevalent in Barren County, a heavy agriculture county, which lies within the karst plain area of the region (which is characterized by an obvious lack of surface streams).

It has also become evident that local attitudes and public relations by CREP related employees play a significant role in interest in the program from county to county. For this reason, the water quality technicians have been a tremendous asset to this program. Overall, 302 letters were sent to individual landowners within the CREP region, 259 were contacted personally by a technician, four articles/advertisements were approved and published, and four producer meetings/workshops were conducted in which CREP was interpreted and BMPs were demonstrated. A more specific breakdown, by practice and by county, can be viewed in Figure 1 on the following page of this report. In addition, specific accomplishments of each technician can be observed in Appendix A at the end of this report.

County	Contracts					Acres				
	CP1	CP2	CP3	CP21	CP22	CP1	CP2	CP3	CP21	CP22
Adair	1	1			8	4	15.9			101.4
Barren		38			14		1738.6			165.8
Edmonson	1	1		1		22.7	122.1		1	
Green		2		1	18		19.3		9.1	447.2
Hart	4	3			35	72.7	49.2			928.4
Metcalfe		4			6		84.6			45.2
Russell										
Taylor		17	2		53		441.5	45.8		747.8
Totals	6	66	2	2	134	99.4	2471.2	45.8	10.1	2435.8

CREP Region Totals:

Total Contracts: 210
Total Acres: 5,062.3

Practice Designations:

CP1 Permanent Introduced Grasses/Legumes
CP2 Permanent Native Grasses
CP3 Tree Plantings
CP21 Filter Strips
CP22 Riparian Buffer

Figure 1

Conclusions

As stated above, due to the ongoing nature of this program, there are not really many concrete conclusions that can be drawn on a large scale. One conclusion that can be drawn, however, is the extent to which the water quality technicians have helped to promote and implement CREP. These techs have been in place for a relatively short amount of time, in a program that is very complicated. Their effectiveness has already been exhibited in several forms, including outreach and public relations, program implementation, and general assistance to partner agencies. With further experience and evolution of these positions in supplemental contracts, effectiveness should continue to increase as well. There is no doubt that progress measured now by tracking BMPs should evolve into progress later that can be measured by water quality testing.

Appendix A

Three quantifiable efforts were to be measured for Subproject-2:

- 1) 360** landusers in the CREP area, not already signed up, contacted on a one-on-one basis about participation in the CREP program;
- 2) Of the above number, 50%** should be in the watersheds above the Pre-BMP monitoring locations on tributaries to the Green River, and,
- 3) Prepare or assist with 18** articles, public meetings, or field days in which the CREP is promoted to landusers.

Overall, 302 letters were sent to individual landowners within the CREP region. In addition, 259 were contacted personally by a technician, four articles and/or advertisements were approved and published and four producer meetings or workshops were conducted in which CREP was interpreted and BMPs were demonstrated. Approximately 60% of the landusers contacted were in the watersheds above the Pre-BMP monitoring locations on tributaries to the Green River. More benefit was seen in the one-on-one contacts.

Financial and Administrative Closeout

This appendix documents technician accomplishments and milestone status/completion, as well as budgetary information. Appendix A is separated into three sections, each documenting the above information for each of the three existing technicians in Adair, Edmonson, and Taylor Counties.

ATTACHMENT A

Section 319(h) Nonpoint Source Project Progress Report

Reporting Period: 7/01/02-8/31/03 **Grant No:** C9994861-99 **State:** Kentucky

Project Name: Green River Watershed Demonstration Project – Subproject 2

Contractor: Adair County Conservation District

Budget Period Start Date: 04/01/03 **End Date:** 06/30/04 **Total Project Cost:** \$17,444.32

Expended this Period: \$3,170.27 **Total Expenditures to Date:** \$15,025.63

Waterbody/Watershed Identification: Green River Watershed

NPS Category: Agriculture

Purpose Statement: The long-range goal of the Green River Conservation Reserve Enhancement Program (CREP) and this Watershed Demonstration Project shall be to improve or restore the Green River and its tributaries.

Adair Co. Conservation District's Milestones

Milestone	Expected	Expected	Actual	Actual
	Begin Date	End Date	Begin Date	End Date
1. Submit all draft materials (agendas, announcements, flyers, training materials, manuals, pamphlets, newsletters, news articles, etc.) to the Cabinet for review and approval.	04/03	06/04	04/03	08/03
2. Submit advanced written notice on all workshops, demonstrations, and/or field days to the Cabinet.	04/03	06/04	04/03	08/03
3. Advertise for one water quality technician position.	04/03	06/04	04/03	08/03
4. Fill water quality technician position.	04/03	06/04	04/03	08/03
5. Implement and demonstrate BMPs with matching funds.	04/03	06/04	04/03	08/03
6. Water quality technician receives training and orientation on CREP.	04/03	06/04	04/03	08/03
7. Promote and track CREP interest among landusers.	04/03	06/04	04/03	08/03
8. Track CREP participation by landusers.	04/03	06/04	04/03	08/03

9. Submit Annual Reports and/or participate in the Cabinets sponsored biennial NPS Conference.	04/03	06/04	04/03	08/03
10. Prepare Final Report	04/03	06/04	04/03	08/03
11. Submit three copies of the Final Report and submit three copies of all products produced by this project.	06/04	06/04	04/03	08/03

Status of Adair County Conservation District's Milestones

Provide a brief sentence or two explaining the progress of each milestone.

1. Notification of meeting was placed in local paper, invitations were sent to landowners who have inquired about CREP, outline of speakers and topics was developed in July 2003.
2. CREP informational meeting was held July 24, 2003. Twenty-six producers and ten agency representatives were in attendance. 08/01/03
3. Interest was solicited for the Water Quality Technician position. 11/21/02
4. WQT position to work in Adair and Russell counties was filled. 04/01/03
5. Water Quality Technician began developing contracts for the implementation of BMPs. Development of contracts for CREP was started. Currently there are eight contracts ready for implementation, and one contract pending approval. There is also one contract that has been implemented. 04/01/03- 08/31/03
6. Technician has received orientation on CREP and also on-the-job training of servicing requests. 4/01/03 – 5/14/03
7. Fifty-nine landowners were contacted in promoting the CREP and field offices were helped in maintaining the current tracking system of interested land users. 04/01/03 – 08/31/03. NRCS had previously contacted all landowners signed up for CREP by letter before the WQT technician start date of April 01, 2003. An additional thirty-nine landowners were contacted by letter 4-15-2003 –7-31-2003.
8. The Water Quality Technician assists the field office in tracking CREP participation by updating a hard copy tracking sheet. 04/01/03 – 08/31/03
9. Project was five months in duration; there was no annual report.
10. CREP coordinator was provided with information vital to the completion of the final report. 9-25-2003.
11. The Final Report was completed October 2003.

Prepared by:

Jason Stephens

Water Quality Technician

12-11-2003

ATTACHMENT A

Section 319(h) Nonpoint Source Project Progress Report

Reporting Period: 7/01/02-8/31/03 **Grant No:** C9994861-99 **State:** Kentucky

Project Name: Green River Watershed Demonstration Project – Subproject 2

Contractor: Edmonson County Conservation District

Budget Period Start Date: 02/01/03 **End Date:** 06/30/04 **Total Project Cost:** \$17,444.32

Expended this Period: \$ 733.50 **Total Expenditures to Date:** \$10,057.54

Waterbody/Watershed Identification: Green River Watershed

NPS Category: Agriculture

Purpose Statement: The long-range goal of the Green River Conservation Reserve Enhancement Program (CREP) and this Watershed Demonstration Project shall be to improve or restore the Green River and its tributaries.

Edmonson Co. Conservation District's Milestones

Milestone	Expected	Expected	Actual	Actual
	Begin Date	End Date	Begin Date	End Date
1. Submit all draft materials (agendas, announcements, flyers, training materials, manuals, pamphlets, newsletters, news articles, etc.) to the Cabinet for review and approval.	02/03	06/04	02/03	08/03
2. Submit advanced written notice on all workshops, demonstrations, and/or field days to the Cabinet.	02/03	06/04	02/03	08/03
3. Advertise for one water quality technician position.	02/03	06/04	02/03	08/03
4. Fill water quality technician position.	02/03	06/04	02/03	08/03
5. Implement and demonstrate BMPs with matching funds.	02/03	06/04	02/03	08/03
6. Water quality technician receives training and orientation on CREP.	02/03	06/04	02/03	08/03
7. Promote and track CREP interest among landusers.	02/03	06/04	02/03	08/03
8. Track CREP participation by landusers.	02/03	06/04	02/03	08/03

9. Submit Annual Reports and/or participate in the Cabinets sponsored biennial NPS Conference.	02/03	06/04	02/03	08/03
10. Prepare Final Report	02/03	06/04	02/03	08/03
11. Submit three copies of the Final Report and submit three copies of all products produced by this project.	06/04	06/04	02/03	08/03

Status of Edmonson County Conservation District's Milestones

1. Faxed agenda, flyers, radio ads and newspaper articles for Metcalfe County CREP meeting. Pre-printed handouts about CREP were given to each contact.
2. Faxed agenda, flyers, radio, television and newspaper articles for Metcalfe County CREP meeting. Pre-printed handouts about CREP were given to each contact. Technician has attended several workshops/field days. The events have been organized/conducted by CREP technician and/or partner agencies. Advertisement ran in local paper, local radio and TV (Metcalfe Light, Edmonton Hearld, WBKO 13 and WKNK 99.1 FM) for educational CREP Meeting August 5, 2003. Edmonson News ran ad about Cave Country field tour.
3. Advertisement ran in local papers, local radio, and TV (Metcalfe Light, Edmonton Hearld, Edmonson News, WBKO 13 and WKNK 99.1 FM) for CREP meetings and informational ads.
4. Water Quality Technician position was filled to work in Edmonson and Metcalfe 3-03-03.
5. Technician has calculated eight state cost share payments, conducted follow-up on warm season grass plantings and riparian buffer and assisted the District Conservationist with six programs.
6. Primary training was on-the-job training through office visits and field visits. Orientation was achieved through training and workshops by CREP Coordinator, DCs and other CREP staff.
7. Contacted 99 landowners in promoting the CREP and helped field offices maintain the current tracking system of interested landusers. 55 invitations were sent for Cave Country Field Tour June 5, 2003. 208 invitations were sent out for Metcalfe County Educational Meeting August 5, 2003. (Flyer attached)
8. The technician assists field office in tracking CREP participation of 14 landusers. Two landowners in Edmonson County drilled warm season grasses late, but they both have a great stand. One landowner had a failure. Last year there was about a 10% stand of warm season grasses, but this year there were daisies, thistles and other weeds. Fish & Wildlife, along with NRCS, called the practice a total failure. The warm season grasses will be redrilled next summer. Fish & Wildlife has chipped in \$1,000 to help the farmer with his loss. The rest of the practices have been very successful. (Pictures attached)
9. Since this project was only five months long, no annual report was submitted.
10. Final report materials were prepared and submitted to CREP Coordinator.
11. Three copies of final report and all products produced by this project will be submitted.

PREPARED by:

Amy M. Branstetter
Water Quality Technician (CREP)
Edmonson County Conservation District

Date: 7/31/03

ATTACHMENT A

Section 319(h) Nonpoint Source Project Progress Report

Reporting Period: 7/1/02 - 8/31/03 **Grant No:** C9994861-99 **State:** Kentucky

Project Name: Green River Watershed Demonstration Project – Subproject 2

Contractor: Taylor County Conservation District

Budget Period Start Date: 08/01/02 **End Date:** 06/30/04 **Total Project Cost:** \$17,444.32

Expended this Period: \$ 5,047.61 **Expenditures to Date:** \$19,981.82

Waterbody/Watershed Identification: Green River Watershed

NPS Category: Agriculture

Purpose Statement: The long-range goal of the Green River Conservation Reserve Enhancement Program (CREP) and this Watershed Demonstration Project shall be to improve or restore the Green River and its tributaries.

Taylor Co. Conservation District's Milestones

Milestone	Expected	Expected	Actual	Actual
	Begin Date	End Date	Begin Date	End Date
1. Submit all draft materials (agendas, announcements, flyers, training materials, manuals, pamphlets, newsletters, news articles, etc.) to the Cabinet for review and approval.	Duration	Duration	11/02	03/03
2. Submit advanced written notice on all workshops, demonstrations, and/or field days to the Cabinet.	Duration	Duration	11/02	03/03
3. Advertise for one water quality technician position.	08/02	09/02	08/02	08/02
4. Fill water quality technician position.	08/02	03/03	09/02	09/02
5. Implement and demonstrate BMPs with matching funds.	08/02	03/03	09/02	03/03
6. Water quality technician receives training and orientation on CREP.	08/02	09/02	09/02	09/02
7. Promote and track CREP interest among landusers.	08/02	03/03	09/02	03/03
8. Track CREP participation by landusers.	08/02	03/03	09/02	03/03

9. Submit Annual Reports and/or participate in the Cabinets sponsored biennial NPS Conference.	Duration	Duration	03/03	03/03
10. Prepare Final Report	03/03	04/03	10/03	10/03
11. Submit three copies of the Final Report and submit three copies of all products produced by this project.	04/03	04/03	10/03	10/03

Status of Taylor County Conservation District's Milestones
Provide a brief sentence or two explaining the progress of each milestone.

1. News article for Tree Planting Workshop was submitted for approval.
(Printed in Central Kentucky News Journal on Monday, November 18, 2002)
2. Submitted notice for Tree Planting Workshop to Cabinet. A workshop was held in Taylor County on November 20, 2002 with approximately 50 people in attendance. A second workshop was held in Green County on March 3, 2003 with approximately 60 people attending.
3. Interest in the Water Quality Technician position was solicited.
4. WQT position filled for work in Taylor and Green Counties.
5. Contracts for implementation of BMPs were developed. In Taylor County, the Water Quality Tech assisted with the development of twenty-six contracts on 402.9 acres. Follow-up visits were conducted on native grass plantings. 153.9 acres of warm season grasses, 140.1 acres of riparian buffers were installed.
6. Technician has received orientation on CREP and also on-the-job training of servicing requests.
7. Fifty-one landowners were contacted in promoting the CREP and the Water Quality Technician helped field offices maintain the current tracking system of interested landusers.
8. The Water Quality Tech assists the field office in tracking CREP participation by updating established database.
9. No progress to report at this time.
10. The Water Quality Tech assisted in preparation of this Final Report September/October, 2003.
11. The Final Report was completed October 2003.

PREPARED by:

Kathy A. Hodges, District Conservationist
Name, Title

12-11-03
Date

BUDGET INFORMATION

Detailed Budget – Based on 7.2 Months

	Federal <u>319(h)</u>Funds	Non-Federal Matching Funds	Total
Salary	\$27,080.00		\$27,080.00
Travel	\$4,320.00		\$4,320.00
BMPs		\$20,933.33	\$20,933.33
Total	\$31,400	\$20,933.33	\$52,333.33

Budget Narrative:

Personnel – Annual salary for 3 WQTs is 25,000. This subproject funds three (3 WQTs) for 60% FTE (7.2 months). Personnel cost includes fringe benefits for the 3 WQTs of 18%, or \$5,652.

Travel – Travel funds in the amount of \$4,320 (from 319(h)) is budgeted for the three WQTs for 2002 for efforts related to promotion of the CREP program.

Other –State Cost share BMPs will provide \$20,933.33 as non-federal match.

The local conservation districts will employ three Green River Watershed CREP Water Quality Technicians that will be an employee of the conservation district and will provide technical assistance, public education. All 319(h) eligible activities outlined in the plan of work will be charged to this project. The federally funded portion of this project will be used for the Water Quality Technicians' salaries and travel. This project will provide for 7.2 months of funding for the three WQTs .

Travel expenses include funds for WQTs to reach farms and sites that are requesting technical assistance and evaluation. There will also be travel expenses by local conservation district staff in promoting NPS efforts in the community.

SOURCE OF NON-FEDERAL MATCHING FUNDS

Non-federal matching funds will be provided by the Kentucky Soil Erosion and Water Quality Control Cost Share Program on a statewide basis to cover personnel and travel. (Matching funds will be documented in accordance with the Utilization of State Cost-Share (c/s) Funds for Match as Part of a Section 319(h) Project document provided by the Division of Water.)

Actual Expenditures for Revised Time of 5 Months

Categories	Federal 319(h)Funds	Non-Federal Matching Funds	Budget Total	Total Spent
Salary	\$27,080.00		\$27,080.00	\$23,363.91
Travel	\$4,320.00		\$4,320.00	\$3,675.09
BMPs		\$20,933.33	\$20,933.33	\$18,035.00
Totals	\$31,400.00	\$20,933.33	\$52,333.33	\$45,074.00

Revised Budget Narrative:

Personnel – Annual salary for 3 WQTs is 25,000 each. This subproject funds three (3 WQTs) for FTE (5.0 months). Personnel cost includes fringe benefits for the 3 WQTs for \$5,652. This revision from 7.5 months to 5.0 months was approved by Kentucky Division of Water.

Travel – Travel funds in the amount of \$4,320 (from 319(h)) are budgeted for the 3 WQTs for efforts related to promotion of the CREP program.

Actual Expenditures - The salary portion spent for the three technicians was \$23,363.91, the travel amount was \$3,675.09 and the matching amount was \$18,035.00. The total amount spent for the three Water Quality Technicians was \$45,074.00 with a total of \$4,361.00 in federal funds remaining unspent.

Source of Matching Funds - Matching funds of \$18,035.00 were from BMP activities as follows: The applications were all in Fleming County, #01-035-86, BMP practice KWP-4, installed 3/23/03; #01-035-19, BMP practice #KWP-4, installed 2/5/03; and #02-035-043, BMP practice #KWP4, installed 2/7/03. These practices were demonstrated at various field days.