



Mark Parkinson, Governor  
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH  
AND ENVIRONMENT

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Division of Environment

Kansas Water Pollution Control Revolving Loan Fund

**FINDING OF NO SIGNIFICANT IMPACT**

**NOV - 3 2010**

To: **All Interested Government Agencies and Public Groups**

In accordance with procedures for implementing the Kansas Water Pollution Control Revolving Loan Fund Act (K.S.A. 65-3321 to 65-3329, K.A.R. 28-16-110 to 28-16-138 effective May 29, 1989 and K.A.R. 28-16-137 effective October 26, 1989, and T-28-16-137 amended October 17, 1989, and the Kansas Environmental Review Procedure for the Kansas Water Pollution Control Revolving Loan Program dated February 2003), an environmental review has been performed on the proposed agency action below:

Project Applicant: **Glacial Hills Resource Conservation and Development Region, Inc.**

SRF Project No.: **C20 1882 01A, amended loan**  
Green Infrastructure / Non-Point Source Pollution Control Project  
Delaware River Streambank Restoration Project, **Phase 2**

Phase 1, Project Total: \$329,250  
Phase 1, Loan Amount: \$263,400  
Phase 1, Principal Forgiveness: \$263,400  
Phase 2, Project Total: \$416,250  
Phase 2, Loan Amount: \$333,000  
Phase 2, Principal Forgiveness: \$333,000

The Final Draft FFY 2010 / Initial Draft FFY 2011 Intended Use Plan scheduled a low interest Kansas Water Pollution Control Revolving Fund (KWPCRF) loan for this project.

The Glacial Hills Resource Conservation and Development Region, Inc. is a nonprofit organization that has received funding to implement green infrastructure/nonpoint source pollution control project in Atchison and Jackson counties. The second phase of this project will consist primarily of eight streambank stabilization and riparian restoration projects along the Delaware River. Preliminary project information was distributed

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through the intergovernmental review process in September of 2009. These documents provide more current and detailed project information.

### **Project Location, Description, and Purpose**

The project sites are located in the Kansas-Lower Republican River Basin in the Walnut Creek-Delaware River subwatershed (HUC 102701030110), the Town of Arrington-Delaware River subwatershed (HUC 102701030308) and the Catamount Creek-Delaware River subwatershed (HUC 102701030408). Perry Reservoir is on the Kansas 2010 303(d) Impaired Waters List for eutrophication. The Delaware River is a designated high priority TMDL watershed for bacteria impairments and is on the 2010 303(d) Impaired Waters List for aquatic life and bacteria impairments.

The primary components of the Delaware Streambank Restoration Project include the implementation of streambank stabilization and riparian restoration practices at 8 sites along the Delaware River above Perry Reservoir. The primary practices utilized include longitudinal peaked stone protection, rock vanes, bank reshaping and revegetation of the streambank and riparian area with native plant materials. Bendway weirs will be utilized at three sites.

Combinations of rock vanes and longitudinal peaked stone-toe protection will be utilized at individual sites in specified locations. Streambanks will be reshaped and vegetated with appropriate woody and herbaceous vegetation. Riparian buffers will be established at all sites with a minimum width of 66 feet. Streambank stabilization and restoration practices are designed to meet standards and specifications of the Natural Resources Conservation Service and the State Conservation Commission.

The primary environmental impacts during the construction of this project include the noise of heavy construction equipment, slight erosion of exposed soil and temporary disruption of aquatic habitat. Measures to control construction erosion and other impacts will be employed as required by the necessary permits from applicable state and federal agencies. Land, materials, fuels and other forms of energy utilized in construction will be irretrievably committed to the project.

The primary environmental benefits following construction will be reduced amounts of sediment and associated pollutants entering the Delaware River and Perry Reservoir. Streambanks and riparian areas will be vegetated with woody and herbaceous plant materials that will provide water quality filtering and wildlife habitat benefits.

The project will have no known adverse impact on rare or endangered species, sensitive ecosystems, unique environmental features, critical archeological or historic sites, parks, wetlands, groundwater quality, open space and recreation opportunities, prime farmland or air quality. No relocation of residences or other buildings will be required.

Project information was provided to the U.S. Department of Interior Fish & Wildlife Service, U.S. Army Corps of Engineers, Kansas Department of Health and Environment, Kansas Department of Wildlife & Parks, Kansas Water Office, Kansas State Historical Society, Natural Resources Conservation Service, State Department of Agriculture Division of Water Resources, State Conservation Commission, Kansas Biological Survey, Kansas Corporation Commission, and Kansas Geological Survey. No objections to the project were received from the reviewing agencies.

A public meeting and hearing were held on September 2, 2009. No opposition to the project was expressed during the public meeting or hearing.

The second phase of the project is estimated to cost \$416,250. The Glacial Hills RC&D has received a \$333,000 loan for Green Project Reserve / Nonpoint Source Pollution Control Practices through the the Kansas Water Pollution Control Revolving Fund (KWPCRF). The Glacial Hills RC&D will receive 100% principal forgiveness on the loan amount up to a maximum of 80% of the total project cost. The Glacial Hills RC&D will utilize other funding sources for the remaining 20% of the project cost and for riparian buffer establishment.

After considering both short-term and long-term environmental effects of the project, it has been determined that any short-term adverse impacts during construction will be surpassed by the long-term benefits derived from the project.

This action is taken on the basis of review of the project management plan, the environmental assessment and other supporting documentation. These are available for public review upon request. A copy of the environmental assessment document is attached. Persons wishing to comment on this Finding of No Significant Impact may submit comments to the Kansas Department of Health and Environment during this period to the attention of Kerry Wedel, Chief, Watershed Management Program.

Sincerely,

  
John W. Mitchell, Director  
Division of Environment

attachments:  
Environmental Assessment Document  
Distribution List  
Project Map

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## Environmental Assessment Document

### **A. Project Identification:**

Project Applicant: **Glacial Hills RC&D**  
Project Name: Delaware River Streambank Restoration Project  
Project No.: **C20 1882 01A, amended loan**  
Project Type: Streambank Restoration Project, **Phase 2**  
Phase 1, Project Total: \$329,250  
Phase 1, Loan Amount: \$263,400  
Phase 1, Principal Forgiveness: \$263,400  
**Phase 2, Project Total: \$416,250**  
**Phase 2, Loan Amount: \$333,000**  
**Phase 2, Principal Forgiveness: \$333,000**

### **B. Community Description:**

Location: Phase 2 of the Delaware River Streambank Restoration Project includes 8 additional sites along the Delaware River in Atchison and Jackson Counties above Perry Reservoir. The project sites are located in the Delaware Watershed (HUC 10270103) of the Kansas-Lower Republican River Basin. Four sites are located in the Catamount Creek-Delaware River subwatershed (HUC 102701030408), two sites are in the Town of Arrington-Delaware River subwatershed (HUC 102701030308), and two are in the Walnut Creek-Delaware River subwatershed (HUC 102701030110). Perry Reservoir is on the Kansas 2010 303(d) Impaired Waters List for eutrophication. The Delaware River is a designated high priority TMDL watershed for bacteria impairments and is on the 2010 303(d) Impaired Waters List for aquatic life and bacteria impairments.

Atchison County has an estimated 2008 population of 16,744 people and Jackson County has an estimated 2008 population of 13,240 people (U.S Census Bureau).

### **C. Project Description:**

Purpose: The purpose of the project is to reduce sediment and associated pollutant loadings to the Delaware River and Perry Reservoir, a major federal reservoir in Northeast Kansas providing flood control, recreation and public water supply benefits. A recent USGS study indicated that stream channel and banks are a major source of sediment to Perry Reservoir (Juracek, 2007). Streambank erosion can also contribute nutrients, such as phosphorus, which can cause water quality impairments in surface water bodies (e.g. eutrophication). The site locations for this project adjoin fields used for agricultural production. The Kansas Water Office estimates that Perry Reservoir has lost approximately 22 percent of its multipurpose pool capacity due to sedimentation. The project is coordinated with the Delaware River Watershed Restoration and Protection Strategy (WRAPS) project and the Kansas State Conservation Commission.

The primary components of the Delaware Streambank Restoration Project include the implementation of streambank stabilization and riparian restoration practices at 8 sites along the Delaware River above Perry Reservoir. The primary practices utilized include longitudinal peaked stone protection, rock vanes, bank reshaping and revegetation of the streambank and riparian area with native plant materials. Bendway weirs will be utilized on three sites.

Design Factors: Combinations of rock vanes and longitudinal peaked stone-toe protection will be utilized at all sites in specified locations. Bendway weirs will also be utilized on at the Armstrong 2, Coder 2, and Utz sites. Streambanks will be reshaped and vegetated with appropriate woody and herbaceous vegetation. Riparian buffers will be established at all sites with a minimum width of 66 feet. Streambank stabilization and restoration practices are designed to meet standards and specifications of the Natural Resources Conservation Service and the State Conservation Commission.

Financial: The second phase of this project is estimated to cost \$416,250. The Glacial Hills RC&D will receive a loan increase of \$333,000 for Green Project Reserve / Nonpoint Source Pollution Control Practices through the Kansas Water Pollution Control Revolving Fund (KWPCRF). The Glacial Hills RC&D will receive 100% principal forgiveness on the loan amount up to a maximum of 80% of the total project cost. The Glacial Hills RC&D will utilize other funding sources for the remaining 20% of the project cost and for riparian buffer establishment.

#### **D. Alternatives Considered:**

Streambank and site assessments were conducted along the Delaware River to identify potential sites for stabilization and restoration projects. A landowner workshop was conducted to solicit landowner participation. Project sites were selected based on anticipated sediment reductions and landowner interest.

#### **E. Environmental Impact Summary:**

##### Primary:

- a. Construction: Noise of heavy construction equipment and slight erosion of exposed soil can be expected during construction. The landowner will remove or relocate an existing agricultural levee at the Coder 2 site to allow for construction of the streambank stabilization and riparian restoration project.
- b. Environmental: The project will result in the establishment of permanent vegetative cover on eroding streambanks and in adjoining riparian areas, resulting in reduced sediment loading to the Delaware River and Perry Reservoir as well as providing other water quality and wildlife habitat benefits.

##### Secondary:

- a. Population: This project will not adversely impact the populations of Jackson and Atchison counties or surrounding communities. Citizens will benefit from reduced sedimentation and improved water quality in Perry Reservoir.
- b. Land Use and Trends: The project will not adversely affect land use trends in project area. Permanent vegetative cover will be established on streambanks and in riparian zones to provide water quality and wildlife habitat benefits, resulting in conversion of a relatively small amount of cropland acreage.
- c. Environmental: Temporary disruption to aquatic habitats can be expected. No known long-term adverse impacts are anticipated on rare or endangered species, sensitive ecosystems, groundwater, unique environmental features, critical archeological or historic sites, parks, wetlands, or air quality.

Mitigation Measures Necessary: Permits for the streambank projects have been obtained from the U.S Army Corps of Engineers, the Kansas Department of Agriculture - Division of Water Resources, and the Kansas Department of Health and Environment (construction stormwater), which include measures to control sediment and erosion during construction and address other environmental considerations.

Irreversible and Irretrievable Commitment of Resources: land, materials, fuels and other forms of energy utilized in construction will be irretrievably committed to the project.

**F. Measures Taken to Insure Environmental Soundness:**

Public Involvement: A public meeting and hearing were held on September 2, 2009.

Public Opposition or Opinions: No public opposition to the project was raised during the public meeting or public hearing.

Coordination and Documentation with Other Agencies and Special Interest Groups: Project information was distributed to the following State and Federal agencies for review and comment:

- a. United States Department of Interior Fish & Wildlife Service
- b. United States Army Corps of Engineers
- c. US Dept of Agriculture, Natural Resources Conservation Service
- d. Kansas Department of Health and Environment
- e. Kansas Department of Wildlife & Parks
- f. Kansas Biological Survey
- g. Kansas Corporation Commission
- h. Kansas Water Office
- i. Kansas Department of Agriculture
- j. Kansas Geological Survey
- k. Kansas State Historical Society
- l. State Conservation Commission

No objections to the proposed project were received from the reviewing agencies. Comments regarding habitat related considerations were received from the Kansas Department of Wildlife and Parks and the U.S. Fish and Wildlife Service. No threatened or endangered species were identified in the general project area. A Phase II Archeological Survey was required by the Kansas State Historical Society and conducted. No historical sites were found in the project areas. Permits were required from the U.S. Army Corps of Engineers; the Kansas Department of Agriculture; Division of Water Resources and the Kansas Department of Health and Environment (construction stormwater).

**G. Positive Environmental Effects to be Realized from the Project:**

The project is designed to reduce the amount of sediment and associated pollutants entering the Delaware River and Perry Reservoir. Additional benefits include enhanced wildlife habitat in vegetated streambanks and riparian buffer areas.

**H. Reasons for Concluding No Significant Impacts:**

The Delaware Streambank Restoration Project will not adversely impact population densities and land use patterns within the surrounding communities or the State. No known adverse impacts are anticipated on floodplains, wetlands, groundwater, or environmentally sensitive areas. Minor, temporary, negative impacts associated with construction will be offset by the long-term benefits of the project.

*Carsten C. Bavelle*

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Reviewer

*22 October 2010*

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Date

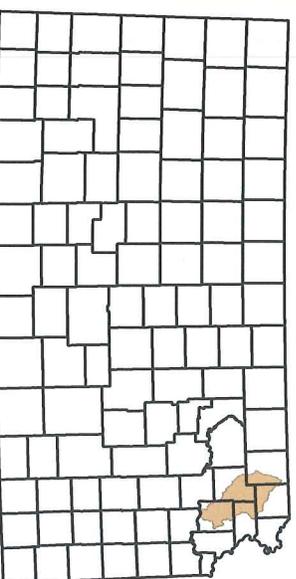
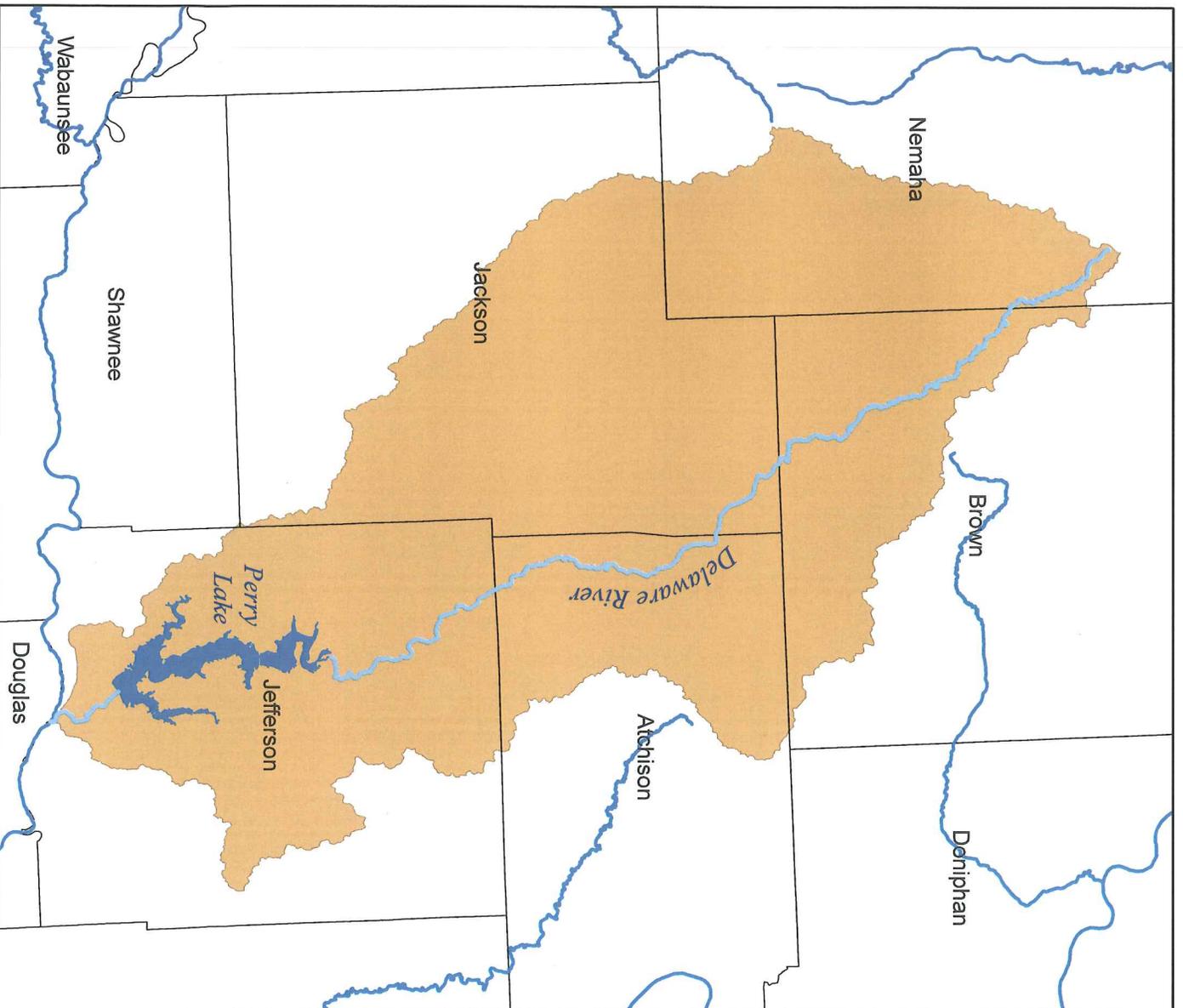
# Glacial Hills RC&D

## **Delaware River Streambank Restoration Project Atchison and Jackson Counties, Kansas Phase 2**

Project No.: C20 1882 01A, Phase 2  
Project Type: Green Project Reserve / Nonpoint Source  
Phase 2, Project Total: \$416,250  
Phase 2, Loan Amount: \$333,000

### **Map Key**

-  Delaware River
-  River
-  Reservoir
-  Delaware Watershed  
HUC 10270103



# Glacial Hills RC&D

## Delaware River Streambank Restoration Project

Project No.: C20 1882 01A, Phase 2

Project Type: Green Project Reserve / Nonpoint Source

Loan Increase: approx. \$333,000

Armstrong 2 and Banks Sites within Atchison County



# Glacial Hills RC&D

## Delaware River Streambank Restoration Project

Project No.: C20 1882 01A, Phase 2

Project Type: Green Project Reserve / Nonpoint Source

Loan Increase: approx. \$333,000

Coder Sites 1 and 2 within Atchison County



# Glacial Hills RC&D

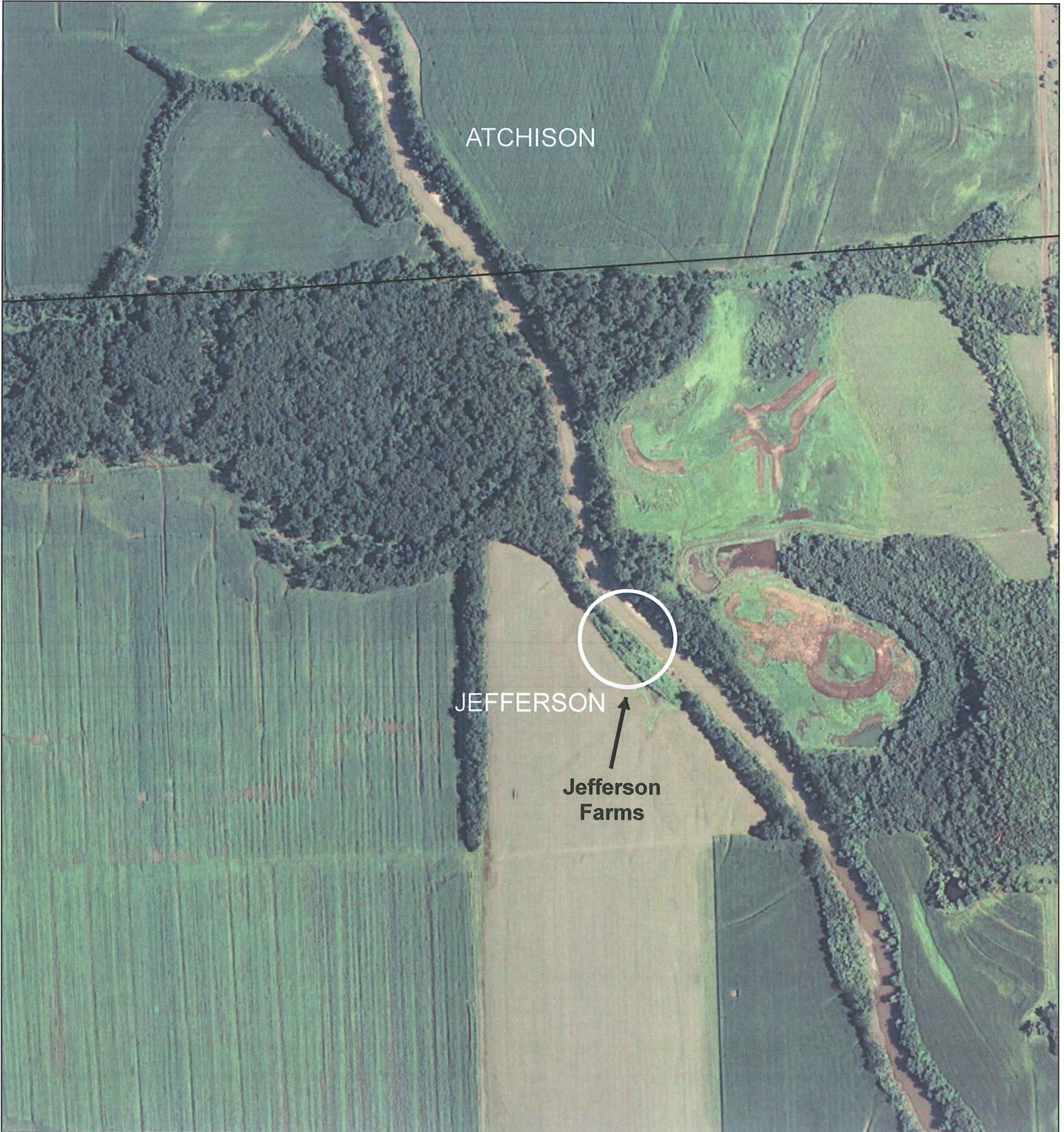
## **Delaware River Streambank Restoration Project**

Project No.: C20 1882 01A, Phase 2

Project Type: Green Project Reserve / Nonpoint Source

Loan Increase: approx. \$333,000

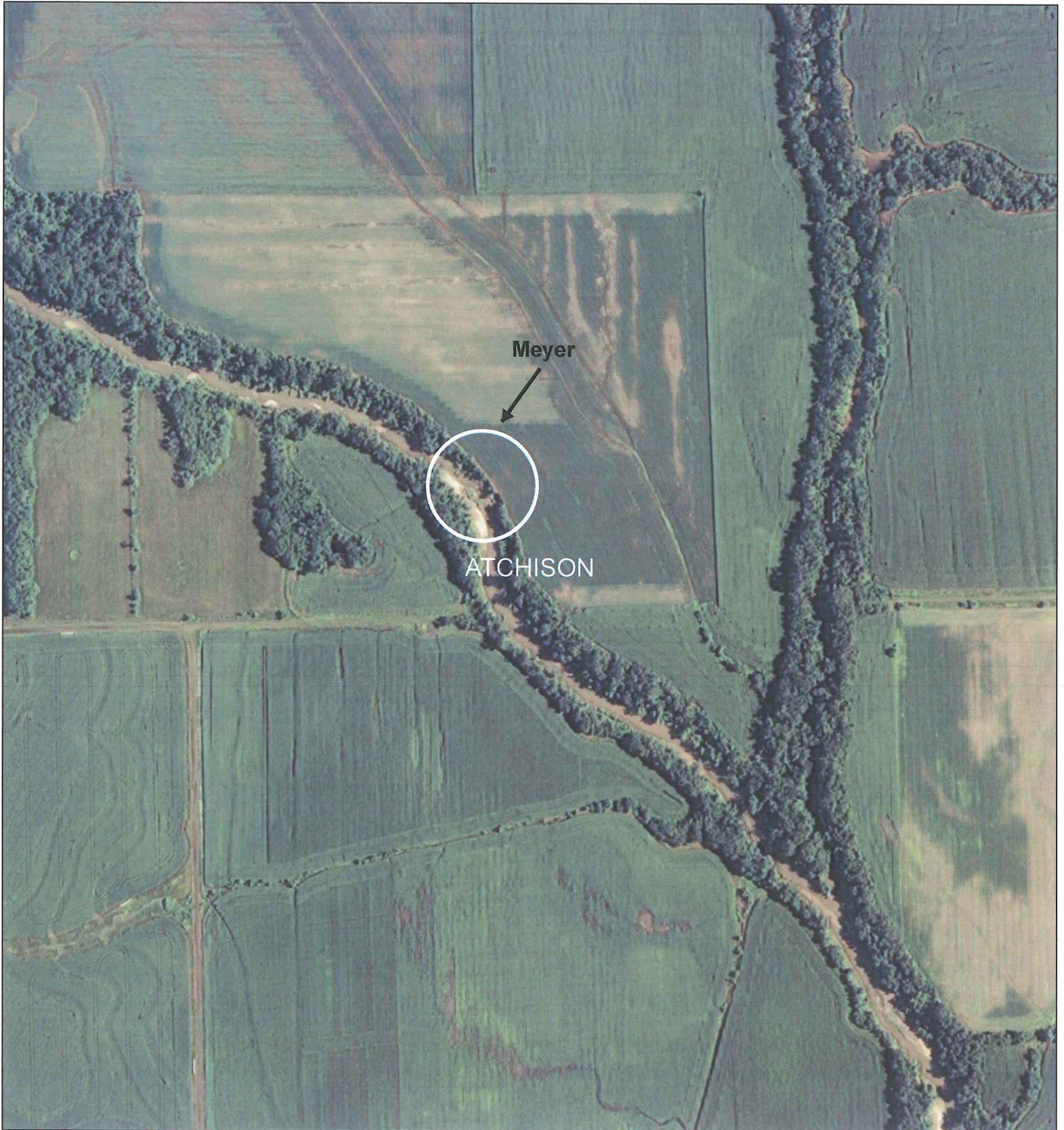
Jefferson Farms Site within Jefferson County



# Glacial Hills RC&D

## Delaware River Streambank Restoration Project

Project No.: C20 1882 01A, Phase 2  
Project Type: Green Project Reserve / Nonpoint Source  
Loan Increase: approx. \$333,000  
Meyer Site within Atchison County



# Glacial Hills RC&D

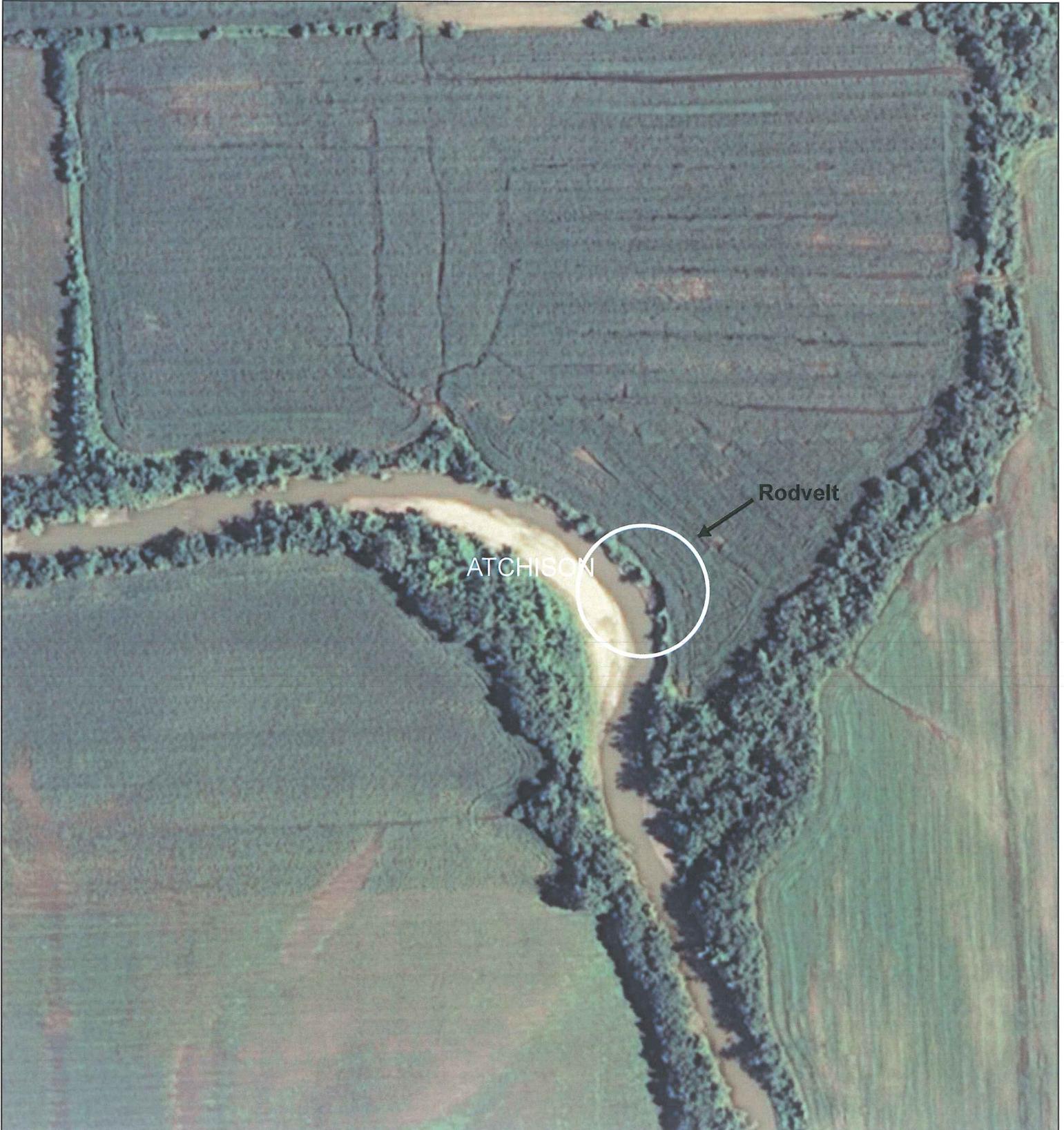
## **Delaware River Streambank Restoration Project**

Project No.: C20 1882 01A, Phase 2

Project Type: Green Project Reserve / Nonpoint Source

Loan Increase: approx. \$333,000

Rodvelt Site within Atchison County



# Glacial Hills RC&D

## **Delaware River Streambank Restoration Project**

Project No.: C20 1882 01A, Phase 2  
Project Type: Green Project Reserve / Nonpoint Source  
Loan Increase: approx. \$333,000  
Utz Site within Atchison County

