

# FFY2007 Project Summaries



## Compilation of Results

Several projects funded under the FFY2007 section 319 grant cycle are still in the engineering and design phase and have yet to report substantial progress. However projects funded under the FFY2007 grant cycle have been thus far been successful in achieving the following:

- Planting 1,284 native trees in riparian areas.
- Installed 14,400 square feet of steel slag leach bed for acid mine drainage treatment.
- Completed development of project designs and plans for 4 stream restoration and 1 wetland restorations projects.
- Successfully acquired conservation easements on 424 acres of riparian areas.
- Conducted 12 public meetings to present project information to potentially affected parties.
- Completed updates on 4 project specific websites.
- Conducted 4 stream clean-ups, 3 watershed tours and installed 4 project specific interpretative signs.



## FFY07 Section 319(h) Nonpoint Source Project Summary

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**Project Number** #07(h) EPA-06  
**Project Completion** June 2010

**SubGrantee** **Greene County Sanitary Engineering Department**  
667 Dayton-Xenia Road  
Xenia, OH 45385

**Project Contact:** **Jefferey A. Hissong, P.E.**  
Greene County Sanitary Engineering Department  
667 Dayton-Xenia Road  
Xenia, OH 45385

**Grant Amount:** \$410,755  
**Local Match:** \$273,900

**Project Title:** **Hartman Wetland & Stream Restoration Project**  
**Project Location:** Greene County  
**Watershed:** North Fork Massies Creek

**Project Summary:** \$410,755 in federal section 319(h) Clean Water Act grant funding is awarded to the Greene County Sanitary Engineering Department to construct 2 acres of seasonally flooded wetland on hydric soils and to restore 1,700 linear foot of stream within the Massies Creek watershed. Natural sinuosity will be restored and riparian cover will be re-established along this currently channelized headwater tributary to Massies Creek. Long-term protection of the sites will be provided through a conservation easement. Implementation of this project will enhance the "North Fork Massie Creek Stream Restoration Project" which is funded through the Ohio EPA Water Resource Restoration Sponsorship Program (WRRSP). The WRRSP funded portion of the project will restore an additional 2,300 linear feet of stream using natural channel design. The project is being implemented consistent with recommendations included the Upper Little Miami Total Maximum Daily Load Study that was approved by US EPA in July, 2002.

Construction and restoration of the adjacent wetland areas will provide additional riparian vegetation, reconnect the stream with its natural floodplain and substantially reduce substrate embeddedness in the project areas. Restoration of the channelized stream will improve the stream's assimilative capacity as well as restore important high quality habitat features to the headwaters of Massies Creek.

**Project Deliverables:** Successful completion of this project will result in the following:

- Complete QHEI assessments upstream and down from the project area prior to and following completion of the restoration project.
- Complete a wetland delineation and ORAM assessment of wetland sites within the project area.
- Restore 2.1 acres of riparian wetlands, including a stop-log structure designed to control water elevations and replanting with 1,500 wetland plants and 400 shrubs.
- Acquire 16 acres of conservation easements within the project area.
- Restore 1,700 linear feet of headwater tributary to Massie's Creek using natural channel design that will restore riffles and pool habitat conditions. The project will also remove 8.6 acres of invasive species and replant 12.1 acres with native species as well as 1,150 native trees and shrubs within the riparian area.
- Conduct project specific public education and outreach activities.

**Environmental Results:** Successful completion of this project will result in the creation and restoration of more than 2 acres of riparian wetland areas and when considering the WRRSP funded restoration project as well, a total of 4,000 linear feet of warmwater habitat headwater stream will be restored. Additionally, 16 acres of restored areas will be protected in perpetuity with conservation easements.

**Progress to Date:**

- Completed and submitted a Quality Assurance Project Plan
- Completed all pre-construction monitoring associated with the project.
- Successfully established a project specific website. For more information please visit: [www.littlemiamiriver.org/Documents/319/Hartman.pdf](http://www.littlemiamiriver.org/Documents/319/Hartman.pdf)
- Completed restoration design documents and submitted pre-construction wetland delineation report.
- Completed easement language and appraisal report
- Completed project plans and design drawings for riparian wetlands.
- Acquired 16 acres of conservation easements.
- Executed construction contracts with constructed expected to commence January, 2009.

**NPS Load Reductions Resulting from Project**

Pollutant	Estimated Loading Reduction
Nitrogen	384 pounds/year
Phosphorus	198 pounds/year
Sediments	171 tons/year



## FFY07 Section 319(h) Nonpoint Source Project Summary

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**Project Number** #07(h) EPA-08  
**Project Completion** June 2010

**SubGrantee** **The Nature Conservancy, Ohio Chapter**  
6375 Riverside Drive, Suite 50  
Dublin, OH 43017

**Project Contact:** **Anthony Sasson**  
The Nature Conservancy, Ohio Chapter  
6375 Riverside Drive, Suite 50  
Dublin, OH 43017

**Grant Amount:** \$500,000  
**Local Match:** \$334,347

**Project Title:** **Big Darby Creek Headwaters Stream Restoration**  
**Project Location:** Logan County  
**Watershed:** Big Darby Creek

**Project Summary:** \$500,000 in federal section 319(h) Clean Water Act grant funding is awarded to the Ohio Chapter of the Nature Conservancy to restore 2,600 linear feet of headwater areas of the Big Darby Creek watershed. The project will also implement floodplain and stream bank restoration and will protect and expand category 3 riparian wetlands that are currently threatened by stream head-cutting resulting from previous channelization. This project is consistent with habitat recommendations included in the approved Darby Creek TMDL Report.

The project site is on the 166 acre Fifth Third Bank Trust property and is owned by TNC. The implementation site is located between river miles 81.4 and 80.8 on the Big Darby main-stem. The designated exceptional warmwater habitat aquatic life use is impaired at the project site due to habitat and hydro-modification. A Big Darby Creek TMDL Report was completed and approved by USEPA in March 2006. Recommended TMDL restoration recommendations for this sub-watershed include habitat protection and restoration, a 95% reduction in phosphorus loadings, and a 93% reduction in sediment loadings.

**Project Deliverables:** Successful completion of this project will result in the following:

- Complete water chemistry monitoring, ICI, IBI, QHEI, and vegetative index of biotic integrity (VIBI) assessments (wetlands sites only) up and down-stream of the project site, prior to and following project implementation; conduct wetland delineation;

- Restore 3.5 acres of Category 3 riparian wetlands.
- Restore 4,600 linear feet of stream and stabilize 900 linear feet of eroding stream bank.
- Restore 14 acres of riparian area with 5,800 native trees and shrubs.
- Conduct a project specific public education and outreach program.

**Environmental Results:** Successful completion of this project will enhance ongoing efforts by The Nature Conservancy to restore 659 acres of protected area in the Big Darby Creek headwaters. All farming at the site will cease no later than the end of 2008 which will result in additional NPS load reductions beyond those anticipated as a direct result of successful implementation of this project.

#### NPS Load Reductions Resulting from Project

Pollutant	Estimated Loading Reduction
Nitrogen	1480 pounds/year
Phosphorus	738 pounds/year
Sediments	738 tons/year

#### Progress to Date:

- Completed and submitted Quality Assurance Project Plan.
- Conducted macroinvertebrate sampling at 2 sites in the project area.
- Executed design and construction contracts. Completed site survey and field assessment work.
- Developed 1 press release and a project specific website. For more information please visit: [www.nature.org/wherewework/northamerica/states/ohio/bigdarby/habitat/art20480.html](http://www.nature.org/wherewework/northamerica/states/ohio/bigdarby/habitat/art20480.html)
- Installed 4 permanent signs identifying the preserve, natural history and future section 319 funded restoration activities.
- Developed and distributed 1 project specific newsletter and conducted 2 project tours.



**These severely eroding stream banks and adjacent riparian areas will be restored in the headwaters of Big Darby as a result of this project.**



## FFY07 Section 319(h) Nonpoint Source Project Summary

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**Project Number** #07(h) EPA-09  
**Project Completion** June 2010

**SubGrantee** **Ohio University**  
Office of Research & Sponsored Programs  
105 Research & Technology Center  
Athens, OH 45701

**Project Contact:** **Ben McCament, Watershed Coordinator**  
Ohio University  
Office of Research & Sponsored Programs  
105 Research & Technology Center  
Athens, OH 45701

**Grant Amount:** \$312,478  
**Local Match:** \$208,343

**Project Title:** **Pierce Run Acid Mine Drainage Remediation**  
**Project Location:** Vinton County  
**Watershed:** Pierce Run—Little Raccoon Creek Watershed

**Project Summary:** \$312,478 in federal section 319(h) Clean Water Act grant funding is awarded to the Ohio University, Office of Research & Sponsored Programs to construct two passive Acid Mine Drainage Treatment Systems in the Pierce Run tributary to Raccoon Creek in southeastern Ohio. The two proposed project sites are identified in the Raccoon Creek Acid Mine Drainage Abatement & Treatment Report (AMDAT) as the two largest contributors of acid loadings to Pierce Run. Completion of this project will result in the elimination of a major source of acid mine drainage into the Middle Raccoon Creek.

Completion of this project is important to reduce acid and metal loadings to Middle Raccoon Creek, which is a previously impaired stream that is responding well to previous efforts to restore the Creek. More than 23 miles of Raccoon Creek have improved to full attainment of the designated warmwater habitat aquatic life use. 9 previous abandoned mine land and acid mine drainage abatement projects have been completed in the watershed. Completion of this project will make further reductions in loadings to Raccoon Creek.

**Project Deliverables:**

- Complete comprehensive water chemistry and bio-criteria monitoring prior to and following project completion.
- Install a sediment pond, 1600 square feet of slag leach bed, open limestone channel and 6 acres of aerobic wetlands to remediate the Oreton Seep in the Pierce Run sub-watershed.
- Install 4 limestone dikes to create 20 acres of shallow wetland habitat that will provide for longer residence time and improved mixing of acidic and alkaline waters.
- Conduct project specific public education and outreach activities.

**Environmental Results:** Successful completion of this project will result in a 92% reduction in acid loadings in the Pierce Run sub-watershed of the larger Raccoon Creek watershed. This project will further improve water quality in Raccoon Creek, thereby increasing the number of miles meeting designated aquatic life use attainment.

**Progress to Date:**

- Completed and submitted Quality Assurance Project Plan
- Prepared and distributed one newsletter to creek-side landowners
- Published one project specific news article
- Established project specific website. For more information please visit: [www.raccooncreek.org](http://www.raccooncreek.org).
- Initiated pre-construction sampling.
- Final design scheduled for completion. Construction expected June, 2009.
- Conducted pre-project tour.

**NPS Load Reductions Resulting from Project**

Pollutant	Estimated Loading Reduction
Acidity	194,545 pounds/year
Iron	91,250 pounds/year
Metals	97,820 pounds/year

**Oreton Seep Proposed Treatment Diagram – Plan View**





## FFY07 Section 319(h) Nonpoint Source Project Summary

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**Project Number** #07(h) EPA-10  
**Project Completion** March 31, 2008—Grant Closed

**SubGrantee** Three Valley Conservation Trust  
5920 Morning Sun Road  
Oxford, OH 45056

**Project Contact:** Larry Frimerman  
Three Valley Conservation Trust  
5920 Morning Sun Road  
Oxford, OH 45056

**Grant Amount:** \$250,000  
**Federal Grant Expended:** \$250,000

**Project Title:** Indian Creek Riparian Corridor Restoration

**Project Location:** Butler County  
**Watershed:** Indian Creek

**Project Summary:** \$250,000 in federal section 319(h) Clean Water Act grant funding was awarded to the Three Valley Conservation Trust to acquire conservation easements on 408 acres along Indian Creek, a tributary to the lower Great Miami River. Acquired easements provide a 600-foot wide riparian corridor protecting nearly 2 miles along the mainstem of Indian Creek and 200-foot wide along 3,650 linear feet of tributaries within the project area. Successful completion of this project enhances protective strategies in place by Three Valley Conservation Trust within the Indian Creek watershed, including the prior acquisition of 500 acres of conservation easements.

Acquisition of easements within the project area will help to reduce the impacts of development that is occurring as a result of two new sub-divisions that have been constructed nearby.

### Final Project Results:

- Acquired conservation easements on 408 acres along the mainstem of Indian Creek and two headwater tributaries. The easements provide a 600-foot wide corridor stretching 9,250 linear feet along the mainstem of Indian Creek and 200-foot wide and 3,650 linear feet along two tributaries with the project site.
- Conducted project specific public education and outreach activities.

**Environmental Results:** The acquisition of conservation easements allow affected segments of Indian Creek and adjacent tributaries to access sufficient riparian floodplains to restore a more stable natural channel.



**Project Sites above are protected by conservation easements acquired by this project improving the likelihood of restoration of a stable channel and healthy riparian corridor.**



## FFY07 Section 319(h) Nonpoint Source Project Summary

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**Project Number** #07(h) EPA-13  
**Project Completion** June 2010

**SubGrantee** **The River Institute**  
2905 Klondike Road  
Delaware, OH 43015

**Project Contact:** **Dan Binder, Executive Director**  
The River Institute  
P.O. Box 1041  
Delaware, OH 43015

**Grant Amount:** \$181,600  
**Local Match:** \$122,512

**Project Title:** **Bath Creek Stream Restoration**  
**Project Location:** **Bath Township, Summit County**  
**Watershed:** **Bath Creek**

**Project Summary:** \$181,600 in federal section 319(h) Clean Water Act grant funding is awarded to restore 2,200 linear feet of Bath Creek to a fully functional stream with accessible floodplain. Bath Creek is perennial headwater tributary to the North Fork of Yellow Creek, which in turn is a tributary of the lower Cuyahoga River. The project will also restore 8 acres of floodplain wetland including a combination of invasive species management and native plantings. The proposed project will enhance ongoing protection efforts in the 404 acre Bath Nature Preserve, acquired by Bath Township in 2001. Upon completion, the restoration project site will be permanently protected with a conservation easement.

Current conditions in the project area demonstrate that Bath Creek is in attainment of its warmwater habitat designated aquatic life use however, a severely depressed QHEI score is indicative of poor habitat conditions. This project will improve habitat conditions so that the stream is consistent with designated warmwater habitat. The project is being implemented consistent with the Lower Cuyahoga TMDL Report that was approved by US EPA in September 2003.

### **Project Deliverables:**

- Complete water chemistry, biological and habitat assessments prior to and following successful completion of the project.

- Restore 2200 linear feet of sinuous stream channel, including the reconnection of the stream with a fully functional floodplain.
- Restore 8 acres of floodplain wetland which includes the elimination of 3 acres of reed canary grass and restoration of 3 acres using native species plantings.
- Permanently protect the project site by acquiring a conservation easement on the 3 acres of restored lands.
- Conduct project specific public education and outreach activities.

**Environmental Results:** In addition to improving in-stream habitat conditions and the assimilative capacity of Bath Creek, this project will improve wetland conditions on 8 acres from a Category 1 to a Category 2 (or higher) wetland.

### NPS Load Reductions Resulting from Project

Pollutant	Estimated Loading Reduction
Nitrogen	230 pounds/year
Phosphorus	114 pounds/year
Sediments	114 tons/year

### Progress to Date:

- Completed and submitted Quality Assurance Project Plan
- Initiated project planning and restoration design
- Wetland delineation report drafted.

## Representative Project Area Photos



Looking upstream at foot bridge (\*note bank height)



Looking downstream from foot bridge



Looking upstream from station 10+00 (\*note bank height)



Looking downstream from 12+00



Looking South from station 7+00



Nearby wetland habitat Bath Pond



## FFY07 Section 319(h) Nonpoint Source Project Summary

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**Project Number** #07(h) EPA-14

**Project Completion** June 2010

**SubGrantee** **Scioto River Federation**  
P.O. Box 1501  
Delaware, OH 43015

**Project Contact:** **Scott Lux, President**  
Scioto River Federation  
P.O. Box 1501  
Delaware, OH 43015

**Grant Amount:** **\$443,700**

**Local Match:** \$298,631

**Project Title:** **Powderlick Run Phase III Stream Restoration**

**Project Location:** Union County

**Watershed:** Bokes Creek

**Project Summary:** \$443,700 in federal section 319(h) Clean Water Act grant funding is awarded to the Scioto River Federation to restore 4,000 linear feet of Powderlick Run using natural channel design. Restoration efforts will result in reconnecting the stream to a functioning floodplain, replacement of substrate materials and the re-establishment of in-stream riffles, runs and pools.

The designated warmwater habitat aquatic life use in Powderlick is impaired but showing considerable signs of improvement from previously completed restoration projects and increased compliance at an upstream CAFO. We anticipate this project will substantially enhance physical and biological conditions within the stream. The project is being implemented consistent with specific recommendations within the approved TMDL for the Bokes Creek watershed. Upon successful completion of restoration work, the project site will be permanently protected with conservation easements.

### **Project Deliverables:**

- Completion of water chemistry, QHEI and fish and macroinvertebrate assessment prior to and following completion of the project.
- Restore 4000 linear feet of natural stream channel including reconnecting the stream to a naturally functioning floodplain, substrate replacement and installation of various in-stream habitat conditions.

- Acquire conservation easements on the 10-acre project site upon completion of restoration activities.
- Restore floodplain and riparian zones by replanting native trees, shrubs and other plant species.
- Conduct project specific public education and outreach activities designed to inform the public and area landowners with the environmental benefits derived from the project.

**Environmental Results:** Successful completion of this project will result in the restoration of 4000 linear feet of warmwater habitat and the permanent protection of 10 acres of riparian and floodplain areas. Ohio EPA anticipates that Powderlick Run and segments of Bokes Creek downstream from Powderlick Run will exhibit measurable improvements in water quality conditions and biological community performance.

#### **NPS Load Reductions Resulting from Project**

Pollutant	Estimated Loading Reduction
Nitrogen	960 pounds/year
Phosphorus	960 pounds/year
Sediments	96 tons/year

**Progress to Date:**

- Completed and submitted Quality Assurance Project Plan
- Initiated project planning and design.
- Initiated process to acquire conservation easements for project sites.



Photos above illustrate conditions in Powderlick Run before and after restoration work that was completed with previous Section 319 grants.



## FFY07 Section 319(h) Nonpoint Source Project Summary

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**Project Number** #07(h) EPA-15  
**Project Completion** June 2010

**SubGrantee** **The River Institute**  
2905 Klondike Road  
Delaware, OH 43015

**Project Contact:** **Dan Binder, Executive Director**  
The River Institute  
P.O. Box 1041  
Delaware, OH 43015

**Grant Amount:** \$332,400  
**Local Match:** \$222,890

**Project Title:** **Clover Groff Stream Restoration**

**Project Location:** Franklin County  
**Watershed:** Big Darby Creek

**Project Summary:** \$332,400 in federal section 319(h) Clean Water Act grant funding is awarded to restore 1,850 linear feet of Clover Groff Run (currently a channelized ditch) by creating a sinuous 2,600 linear feet natural stream channel within an active forested riparian floodplain. Upon completion of the restoration, the project site will be protected as part of a city park. Implementation of this project is consistent with recommendations contained within the approved Darby TMDL. This project will restore ½ mile of designated warmwater habitat stream.

The project site is located at river mile 7.4 on Clover Groff Run—one of two headwater tributaries to Hellbranch Run which eventually flows into Big Darby Creek. The designated modified warm-water habitat aquatic life use for Clover Groff is impaired at the project site due to habitat alteration, hydro-modification and excessive nutrients. A Big Darby Creek TMDL Report was completed and approved by USEPA in March 2006. The TMDL Report states that the Hellbranch Run sub-watershed contains most of the impaired waters in the lower Big Darby Creek. Successful completion of this project will result in the restoration of this segment of Clover Groff to warmwater habitat.

**Project Deliverables:** Successful completion of this project will result in the following:

- Restore 2,600 lineal feet of perennial, headwater stream, including an 80 foot wide floodplain along the entire restored segment;
- Restore riparian area with 4,750 native tree and shrub plantings;

- Complete water chemistry sampling, fish, macro-invertebrate, and QHEI assessments as well as stream morphology monitoring. Monitoring will occur up and downstream of the project site and be completed prior to and following successful completion of the project.
- Report analyzing de-nitrification potentials up and downstream of the project site in order to compare the relative restoration impacts of an over-wide ditch (upstream of the project site) and natural channel design;
- Develop stream discharge and bed load rating curves to quantify interim stream flow and stream bed stability;
- Conduct a project specific public education and outreach program.

### NPS Load Reductions Resulting from Project

Pollutant	Estimated Loading Reduction
Nitrogen	394 pounds/year
Phosphorus	196 pounds/year
Sediments	196 tons/year

#### Progress to Date:

- Completed and submitted Quality Assurance Project Plan.
- Completed all pre-construction monitoring activities.
- Completed restoration design documents, including planting plans and all necessary permitting documents.
- Completed wetland delineation report.
- Conducted stream restoration workshop.
- Field trip and two papers presented at National NPS Monitoring Workshop



**Clover Groff is in very poor condition, suffering from hydromodification, habitat alteration and excessive nutrients. This project will restore the stream to a more natural and healthy condition.**



## FFY07 Section 319(h) Nonpoint Source Project Summary

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<b>Project Number</b>	<b>#07(h) EPA-16</b>
<b>Project Completion</b>	June 2010
<b>SubGrantee</b>	<b>Rural Action, Inc.</b> P.O. Box 157 Trimble, OH 45732
<b>Project Contact:</b>	<b>Mike Steinmous, Watershed Coordinator</b> Rural Action, Inc. P.O. Box 157 Trimble, OH 45732
<b>Grant Amount:</b>	<b>\$156,666</b>
<b>Local Match:</b>	<b>\$104,444</b>
<b>Project Title:</b>	<b>Shawnee Slag Leach Bed Project</b>
<b>Project Location:</b>	Perry County
<b>Watershed:</b>	Monday Creek Headwaters

**Project Summary:** \$156,666 in federal section 319(h) Clean Water Act grant funding is awarded to Rural Action, Inc. to install a steel slag leach bed treatment system at river 24.6 on Monday Creek. In an innovative blending of technologies, highly alkaline clean effluent from the Village of Shawnee wastewater treatment plant will be routed through a steel slag leach bed to produce a highly alkaline discharge into Monday Creek. The project complete the final phase of on-going acid mine drainage radiation efforts in this segment of Monday Creek. A previously installed lime doser has raised pH in the vicinity of the proposed project site to between 5 and 7. The proposed project is expected to stabilize stream alkalinity and mitigate the impacts of acid mine drainage from abandoned coal mines in the region.

The Monday Creek headwaters are in non-attainment with warm water habitat aquatic life uses primarily due to the toxic effects of acid mine drainage. Historically, Monday Creek headwaters have been designated as limited resource waters, however based on Ohio EPA 2001 water quality assessment, the stream is now capable of supporting warm water habitat. These improvements are due to the ongoing acid mine drainage remediation projects that have been completed during the past seven years.

### Project Deliverables:

- Complete flow measurements, water chemistry sampling and fish, macroinvertebrate and QHEI assessments up and downstream from the project site.
- Install a 160 feet by 90 feet steel slag leach bed containing 1200 cubic yards of limestone and 331 tons steel slag. 33 gallons per minute of treated effluent from the Village of Shawnee WWTP will provide the source for the flow through the leach bed.
- Complete project specific education and outreach activities to inform the public of the environmental benefits of the project.

**Environmental Results:** The proposed project will complete the final phase of ongoing acid mine remediation efforts in this segment of Monday Creek. A previously installed limestone doser in the headwaters has successfully raised pH in the vicinity of the proposed project site. Upon successful implementation, this project will stabilize stream alkalinity and improve water quality that will allow for the best possible recovery of aquatic life in Monday Creek.

#### NPS Load Reductions Resulting from Project

Pollutant	Estimated Loading Reduction
Acidity	122,640 pounds/year

### Progress to Date:

- Completed and submitted Quality Assurance Project Plan
- Completed pre-construction chemical and habitat monitoring at 6 sampling sites.
- Completed project design and selected contractor for project construction.
- Volunteers planted 1200 tree seedlings in project area.
- Conducted 1 watershed tour and 1 watershed clean-up.
- Completed construction of steel slag leach bed
- Developed 2 press releases and 1 newsletter.



The Shawnee steel slag leach bed completed during 2008 provides an alkaline “super-charge” for freshly treated clean effluent from the Village of Shawnee’s wastewater treatment plant. Completion of this project will improve and stabilize water quality conditions in the headwaters of Monday Creek and mitigate the impacts of acid mine drainage (AMD) in the area.



## FFY07 Section 319(h) Nonpoint Source Project Summary

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**Project Number** #07(h) EPA-18  
**Project Completion** June 2010

**SubGrantee** Western Reserve Land Conservancy  
P.O. Box 314  
Novelty, OH 44072

**Project Contact:** Chris Szell  
Western Reserve Land Conservancy  
P.O. Box 314  
Novelty, OH 44072

**Grant Amount:** \$292,000  
**Local Match:** \$194,667

**Project Title:** East Branch Rocky River Riparian Preservation & Restoration Project

**Project Location:** Summit and Medina Counties  
**Watershed:** Rocky River

**Project Summary:** \$292,000 in federal section 319(h) Clean Water Act grant funding is awarded to the Western Reserve Land Conservancy to acquire conservation easements on 132 acres of high quality riparian areas and to restore 1 acre of degraded riparian area along a coldwater habitat stream segment. The project area is located within the Hinckley Reservation of the Cleveland Metroparks System and currently supports cold-water adapted biotic community that includes the most prolific self-sustaining population of brook trout in the state. The acquisition of easements in this area will protect existing water quality from future development pressures, reduce stream bank erosion and help to maintain the cool water temperatures needed to sustain the coldwater aquatic community found in the stream.

This project will enhance ongoing efforts by the Western Reserve Conservancy to protect upper reaches of the East Branch of the Rocky River in northeastern Ohio.

### Project Deliverables:

- Complete water chemistry and biological monitoring and assessment prior to and following completion of the project.
- Complete annual demographic assessment of brook trout within the watershed.
- Remove 1 acre of non-native and invasive species and restore riparian areas with 50 foot wide plantings of native trees and shrubs along 800 linear feet of coldwater habitat stream.

- Acquire conservation easements on 135 acres of riparian and 5 acres of wetland areas. The project will protect in perpetuity approximately 4500 linear feet of stream in the project areas.

**Environmental Results:** Successful completion of this project will result in the permanent protection of 135 acres of riparian and 5 acres of wetland areas along a coldwater habitat stream. The project will also restore functional forested riparian zones in lower reaches of the stream, thereby further protecting one of the highest quality coldwater aquatic communities in the state.

**Progress to Date:**

- Completed restoration design documents
- Acquired 66 acres of conservation easement on riparian areas.
- Removed nearly 1 acre of non-native, invasive species from project site.
- Completed and distributed 1 brochure, conducted one field day and created a project specific website.
- Planted 84 trees in riparian areas.
- Conducted 1 project specific public meeting

For more information please go to:

[www.myrockyriver.org](http://www.myrockyriver.org)

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## FFY07 Section 319(h) Nonpoint Source Project Summary

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**Project Number** #07(h) EPA-21

**Project Completion** June 2010

**SubGrantee** Friends of the Lower Muskingum River

348 Muskingum Drive  
Marietta, OH 45750

**Project Contact:** Kristyn Robinson

Friends of the Lower Muskingum River  
348 Muskingum Drive  
Marietta, OH 45750

**Grant Amount:** \$138,779

**Local Match:** \$ 94,100

**Project Title:** Nitrate Reduction in Drinking Water in the Lower Muskingum River

**Project Location:** Washington County

**Watershed:** Muskingum River

**Project Summary:** \$138,779 in federal section 319(h) Clean Water Act grant funding is awarded to the Friends of the Lower Muskingum River to implement source water protection practices on 500 acres in four public drinking water supply areas. The project specifically proposes to implement best management practices to reduce nitrates within the one-year and five-year time of travel zones in four public water supply well fields.

The project also will acquire 17.25 acres of conservation easements to protect existing water quality in the Lower Muskingum River. The acquisition of easements will be focused on parcels that have substantial river frontage, healthy riparian corridors and degraded sites that have high potential for effective restoration.

Completion of this project will enhance ongoing efforts of the Friends of the Lower Muskingum to improve conditions within the Lower Muskingum River in Washington County. The project is being implemented consistent with recommendations included in the state endorsed watershed action plan that has been developed for the Lower Muskingum.

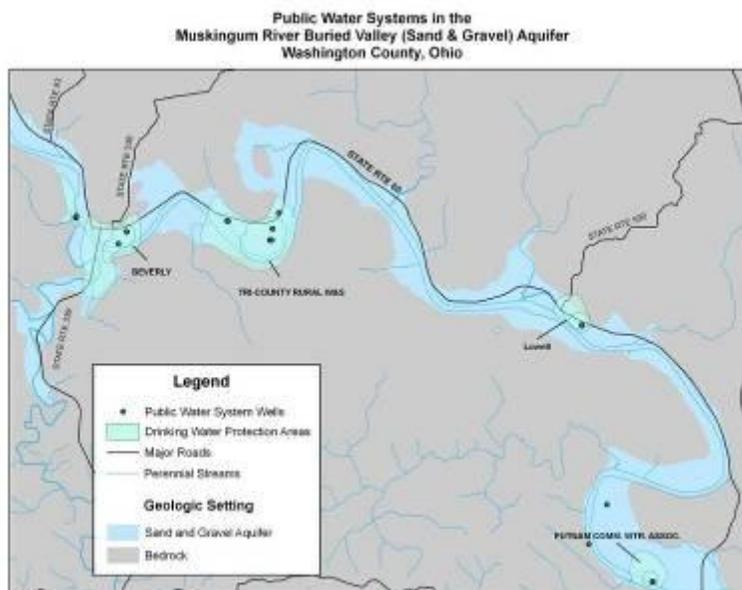
## Project Deliverables:

- Nitrate monitoring in raw and treated public drinking water from selected test wells.
- Complete and implement nutrient management plans on 350 acres.
- Implement nitrogen reduction practices on two golf courses within the project area.
- Plant 28 acres of native prairie grasses in two public well fields in the project area.
- Acquire 17.25 acres of riparian area conservation easements.
- Plant 400 acres of cover crops within the project area.
- Conduct project specific public education and outreach activities.

**Environmental Results:** The goal of the project is to implement management practices and nutrient reduction practices to reduce nitrate in public drinking water supplies and to protect high quality riparian areas within Washington County.

## Progress to Date:

- Completed and submitted a Quality Assurance Project Plan
- Completed pre-construction monitoring at 17 sites
- Conducted 10 public meetings
- Completed 3 stream clean-ups
- Designed project display board and one newsletter.
- Drafted boilerplate language for conservation easements.
- Contacted agricultural producers in the wellhead protection area to describe and offer crop cost-share.





## FFY07 Section 319(h) Nonpoint Source Project Summary

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**Project Number:** #07(h) EPA-22  
**Project Completion:** Grant funding was declined by project sponsor.

**SubGrantee** Grand River Partners, Inc.  
c/o Lake Erie College  
391 West Washington Street  
Painesville, OH 44077

**Project Contact:** Eddie Dnegg  
Grand River Partners, Inc.  
c/o Lake Erie College  
391 West Washington Street  
Painesville, OH 44077

**Grant Amount:** \$250,000  
**Local Match:** \$181,660

**Project Title:** Protection of High Quality Riparian and Wetland Areas within the Lower Grand River Watershed

**Project Location:** Lake and Ashtabula Counties  
**Watershed:** Grand River

**Project Summary:** \$250,000 in federal section 319(h) Clean Water Act grant funding is awarded to the Grand River Partners to acquire conservation easements on 300 acres of high quality riparian and wetland areas within the Grand River watershed. This project will enhance ongoing efforts by the Grand River Partners to protect the state designated Grand Wild & Scenic River in northeast Ohio. To date, the Partners have successfully protected more than 27,000 acres within the Grand River watershed.

The project area includes a portion of the Grand River that is designated as both outstanding state waters and as a wild and scenic river. Easement acquisition will be focused on lower reaches of the river where segments are in either full attainment or partial attainment of Exceptional Warmwater Habitat aquatic life uses. Protecting high quality waters through conservation easements and other controlled land use practices is an important component of Ohio's overall strategy to address and/or prevent nonpoint source pollution.

**Project Deliverables:** Successful completion of this project will result in the following:

- Protecting 300 acres of riparian lands through the acquisition of conservation easements, including more than 200 acres of riparian corridor and 60 acres of high quality wetlands within the watershed.
- Completing a wetland delineation and stream morphology assessment in and around the project sites.
- Conducting project specific public education and outreach activities.

**Environmental Results:** The overall project goal is to protect outstanding state water resources in the Grand River watershed by controlling land use practices and protecting high quality habitat within the project focus areas.

**Progress to Date:** FFY07 projects are currently in the process of contracting. We anticipate reporting significant progress on this project during the FFY08 Ohio NPS Annual Report. To date, there are 40 ongoing negotiations for conservation easement acquisition within the project site.



The Grand River in northeastern Ohio is one of the state's highest quality streams. Ongoing efforts by groups such as the Grand River partners will insure that water quality remains high throughout the watershed.