

**Statewide Surface Water Improvement Fund
Grant Project Summaries**



Stormwater Demonstration—Columbus, Ohio

June 2nd, 2010

Nonpoint Source Program
Russ Gibson, NPS Manager

Background: The Surface Water Improvement Fund was created in 2008 with the passage of Ohio House Bill 119 and authorizes the Ohio Environmental Protection Agency to provide grant funding to applicants such as local governments, park districts, conservation organizations and others. Applications were due on February 15, 2010 and Ohio EPA received 132 applications. A total of 16 of these projects were successful and are being awarded 2010 SWIF grants. Grants are awarded for two –year periods with effective start dates of June 1st, 2010.

Eligible Applicants: The following entities were eligible to apply for grant funding from the Surface Water Improvement Fund during 2010:

- Local municipalities, counties and townships
- Park districts
- County Soil & Water Conservation District
- City and/or county health departments
- 501(c)(3) non-profit conservation groups with land managing responsibilities
- Watershed groups that are sponsored by a local government
- Recognized land conservations or trusts

Eligible Projects: Water quality improvement project eligible for SWIF funding include:

- Stream restoration and/or renaturalization
- Riparian restoration and protection
- Wetland restoration and protection
- Innovative storm water management demonstration projects
- Inland lakes restoration and management
- Replacement and/or repair of on-site home sewage treatment systems.

Ohio EPA—Division of Surface Water 2010 Recommended STATEWIDE SWIF Subgrant Recipients

Project Number	Applicant	Project Title	Amount Recommended
#10SWIF-162	Athens County SWCD	Athens Urban Rain Gardens	\$7,710
#10SWIF-063	Granville Twp., Licking County	Salt Run Restoration Project	\$40,847
#10SWIF-145	Liberty Township	Wild Cat Run Stream Restoration & SW Mgmt	\$108,991
#10SWIF-044	City of Dublin	Dublin Community Rec.. Center—Green Roof Demo.	\$50,560
#10SWIF-066	International Center for the Preservation of Wild Animals	Miller Vallery Wetland Restoration at the Wilds	\$141,736
#10SWIF-148	City of Lancaster	Deeds Wetlands	\$150,000
#10SWIF-073	Tuscarawas County SWCD	Fort Laurens Public Rain Garden-Rainy Day Boot	\$6,255
#10SWIF-098	Concord Township	Concord Twp. Stormwater Demonstration	\$61,644
#10SWIF-097	Portage County Park District	Morgan Preserve Wetlands & Stream Restoration	\$46,496
#10SWIF-118	Mill Creek Metroparks	Demonstration Rain Garden at MetroParks Farm	\$11,597
#10SWIF-151	City of Eastlake	Eastlake Service yard Bio-retention Demonstration	\$64,479
#10SWIF-012	Bath Township	Permeable Parking Lot and Public Rain Garden	\$34,560
#10SWIF-062	Knox County	Hiawatha Park Demonstration Project	\$49,996
#10SWIF-094	Chester Township	Chester Twp Innovative Stormwater Demonstration	\$77,295
#10SWIF-111	Portage County Commissioners	Portage Co. Regional Planning Parking Lot Bio-retention	\$34,746
#10SWIF-015	Meigs County SWCD	Meigs SWCD Riparian Forest Buffer Demonstration	\$1,273
TOTAL RECOMMENDED			\$888,185



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-162

Est. Project Completion January, 2011

SubGrantee **Athens Soil and Water Conservation District**
69 S. Plains Road
The Plains, OH 45780

Project Contact: **Cathy Bobo, District Manager**
Athens Soil and Water Conservation District

Amount Requested: \$7,710

Project Title: **Athens Urban Rain Gardens**

Project Location: Athens Township, Athens County

Watershed: Hocking River

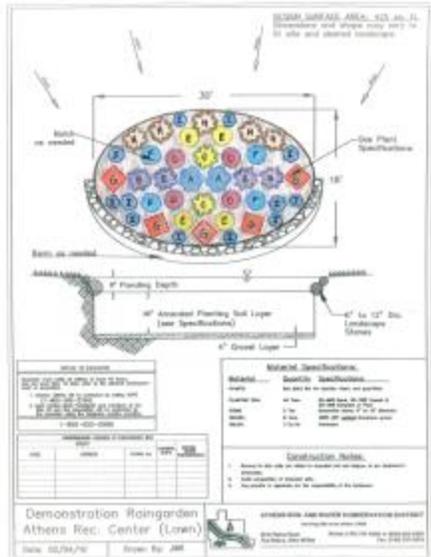
Project Summary: \$7,710 in Surface Water Improvement Fund (SWIF) grant funding is awarded to install three rain gardens in two different locations within the Hocking River watershed. The Athens Community Center and the Athens City Code and Public Works facilities are located in highly visible and publically accessible areas where storm water drainage is an issue. This project will reduce the volume of storm water and pollutants in runoff to the Hocking River. The three rain gardens will treat approximately 216,191 gallons of storm water per year.

Activities will be supported by a project specific education and outreach effort resulting in the production and distribution of educational brochures and plant guides, creation of on-site educational displays, issuance of news releases, and sponsorship of an educational workshop and tour upon project completion. Project outreach and design will commence upon receipt of SWIF grant funding.

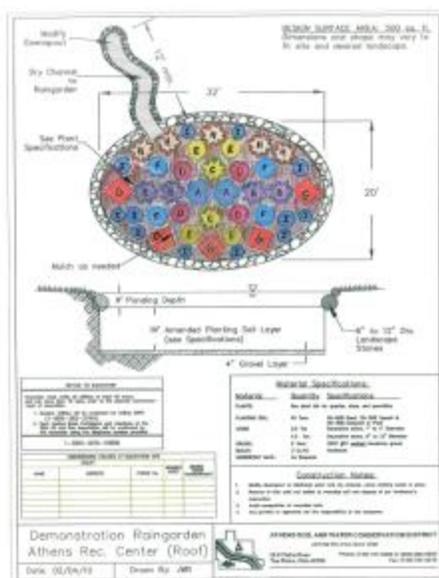
Project Deliverables:

- Installation of 1069 square feet of large community rain gardens with materials including planting soil, stone, gravel, mulch and plants.
- Conduct a project specific public education and outreach program including the development of 2 press releases, installation of 3 project signs, 2 project displays, 1 project tour, 1 workshop, 1 newsletter, 1 local radio spot, 1 educational brochure, and 1 site specific plant guide.

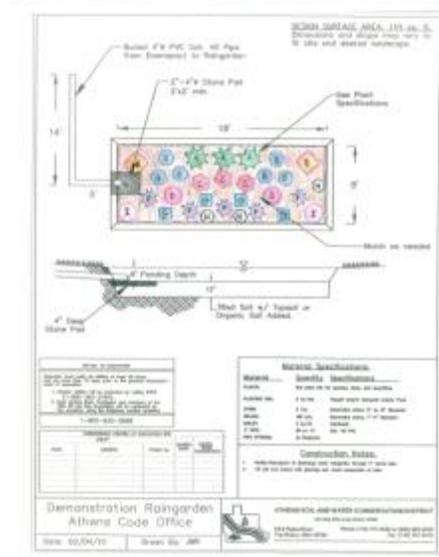
Environmental Results: Successful completion of this project is expected to provide collection, filtration and ground water recharge of approximately 216,191 gallons of storm water annually, reducing excess flow and sediment loadings to the Hocking River.



**Rain Garden DESIGN (on left)
Rain Garden SITES (on right)**



ATHENS CITY CODE OFFICE DEMONSTRATION RAINGARDEN





2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-063
Est. Project Completion December, 2010

SubGrantee Granville Township, Licking County
P.O. Box 315
Granville, OH 43023

Project Contact: Doug Spieles, Associate Professor
Denison University

Amount Requested: \$39,847

Project Title: Salt Run Restoration Project

Project Location: Spring Valley Preserve, Licking County
Watershed: Salt Run, Tributary to Raccoon Creek

Project Summary: \$39,847 in Surface Water Improvement Fund (SWIF) grant funding is requested to complete stream restoration on Salt Run, a tributary to Raccoon Creek. The project is located within the Spring Valley Nature Preserve and is the third phase of transforming Spring Valley from a community swimming pool to a community nature preserve. A lowhead dam constructed to provide water to a community swimming pool will be removed along with a 185 linear foot concrete retaining wall on the west bank of the stream. The concrete wall constricts the Salt Run channel, inducing erosion and undercutting of the east bank. The small lowhead dam and concrete spillway serves no current purpose and is causing localized erosion immediately downstream on the east bank. This project will restore the natural stream bank and hydrologic regime of Salt Run.

Activities will be supported by a project specific education and outreach effort resulting in press releases, description of project on Licking Land Trust and Granville Township websites, inclusion of article in a newsletter, development of a fact sheet, posting of signs during construction, hosting of public tours, and distribution of educational materials for local elementary school field days.

Project Deliverables:

- Restoration of natural flow regime, stream channel, and flood plain to 185 linear feet of Salt Run through removal of 185 linear feet of concrete levee.
- Rehabilitation and enhancement of 185 linear feet of riparian habitat using native plant materials such as hardwood seedlings and shrubs. Total acreage to be enhanced will be approximately 1/3 of an acre.

- Restoration of natural flow to approximately 50 linear feet both upstream and downstream from the dam through lowhead dam removal.
- Conduct a project specific public education and outreach program including the production of 1 project fact sheet, 1 public meeting, 2 press releases, posting of information on 2 Websites, 1 sign, 1 display, 5 public tours, 10 field days, 2 newsletter articles and distribution of 25 stream study kits to Denison University's Environmental Education Mentoring Program.

Environmental Results: Successful completion of this project is expected to restore a total of 285 linear feet of natural stream habitat and to reduce sediment loadings to Raccoon Creek.



At Top of Wall - Looking South



Eroded east bank
downstream of dam

Pool Above Lowhead Dam



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-145
Est. Project Completion August 2011

SubGrantee **Liberty Township**
1014 Brewster Lane # 125
Powell, Ohio 43065

Project Contact: **David Anderson**
Liberty Township

Amount Awarded: **\$108,991**

Project Title: **Wild Cat Run Stream Restoration and Storm Water Management Demonstration, Phase I**

Project Location: Liberty Township, Delaware County
Watershed: Lower Olentangy

Project Summary: \$108,991 in Surface Water Improvement Fund (SWIF) grant funding is awarded to restore 500 linear feet of perennial stream with natural channel design with stone riffles and eddy rock groupings. This project will utilize storm water management practices by constructing a self forming channel on a previously channelized feeder stream and constructing a vegetated swale with rock check dams within the swale. This project is part of a larger initiative to establish a stormwater management demonstration site for innovative storm water practices that will serve as a model for other townships and developers. With a conservation covenant, the Park would secure 30 acres of wooded stream corridor to be protected in perpetuity. This project is consistent with findings and recommendations within the Lower Olentangy Total Maximum Daily Load study completed by Ohio EPA and approved by U.S. EPA in 2003.

Project Deliverables:

- Restore 500 linear feet of perennial stream with natural channel design.
- Construct a 260'x40' self forming channel on a previously channelized feeder stream
- Construct a 450'x8' bottom vegetated swale.
- Protect 3,800 linear feet of wooded stream corridor with a conservation covenant on approximately 30 acres.

Environmental Results: Successful completion of this project will reduce nonpoint source pollutant loadings (nutrient and sediments) to Lower Olentangy and reduce habitat loss by restoration and maintaining the health of this tributary.

NPS Load Reductions Resulting from Project

Pollutant	Estimated Loading Reduction
Nitrogen	140.9 pounds/year
Phosphorus	70.4 pounds/year
Sediments	61.3 tons/year



2010 Surface Water Improvement Grant Project Summary

Project Number	#10SWIF-044
Est. Project Completion	October, 2010
SubGrantee	City of Dublin 5200 Emerald Parkway Dublin, OH 43107
Project Contact:	Michelle Crandall, Director of Administrative Services City of Dublin
Amount Awarded:	\$50,650
Project Title:	Dublin Community Recreation Center – Green Roof Demonstration Project
Project Location:	City of Dublin, Franklin County
Watershed:	South Fork Indian Run, tributary of Scioto River (upper)

Project Summary: \$50,650 in Surface Water Improvement Fund (SWIF) grant funding is to the city of Dublin to install innovative storm water management demonstration project at the city's Community Recreation Center. The project includes the installation of a green roof plant system, a walkway and small patio area allowing for public access and education, two rain barrels, and a rain gauge. The community center is visited by approximately 700,000 visitors annually, providing a highly accessible and visible site for demonstration of storm water best management practices that reduce the volume and nonpoint source pollution in receiving streams.

Activities will be supported by a project specific education and outreach effort resulting in the production of an education brochure, project page on the City's Website, informational kiosk, issuance of new releases, newsletter articles, tours, and youth and adult educational programs. This project is shovel ready and will commence construction activities upon receipt of SWIF grant funding.

Project Deliverables:

- Installation of 2,300 square feet of a green roof plant system.
- Installation of 2 rainwater harvesting/reuse systems to use for watering plant material in the summer.
- Installation of 1,044 square feet of pavers for a walkway and small patio area.
- Installation of a rain gauge to monitor rainfall and storm water diversion volumes.
- Conduct a project specific public education and outreach program including the production of 1 project fact sheet, 1-2 press releases, 1 project page on City's Website,



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-066

Est. Project Completion June, 2011

SubGrantee **The International Center for the Preservation of Wild Animals, Inc. (ICPWA), d.b.a. The Wilds**
14000 International Road
Cumberland, OH 43732

Project Contact: **Shana Byrd, Restoration Ecology Program Coordinator**
The Wilds

Amount Awarded: **\$141,736**

Project Title: **Miller Valley Wetland Restoration at the Wilds**

Project Location: Rich Hill Township, Muskingum County

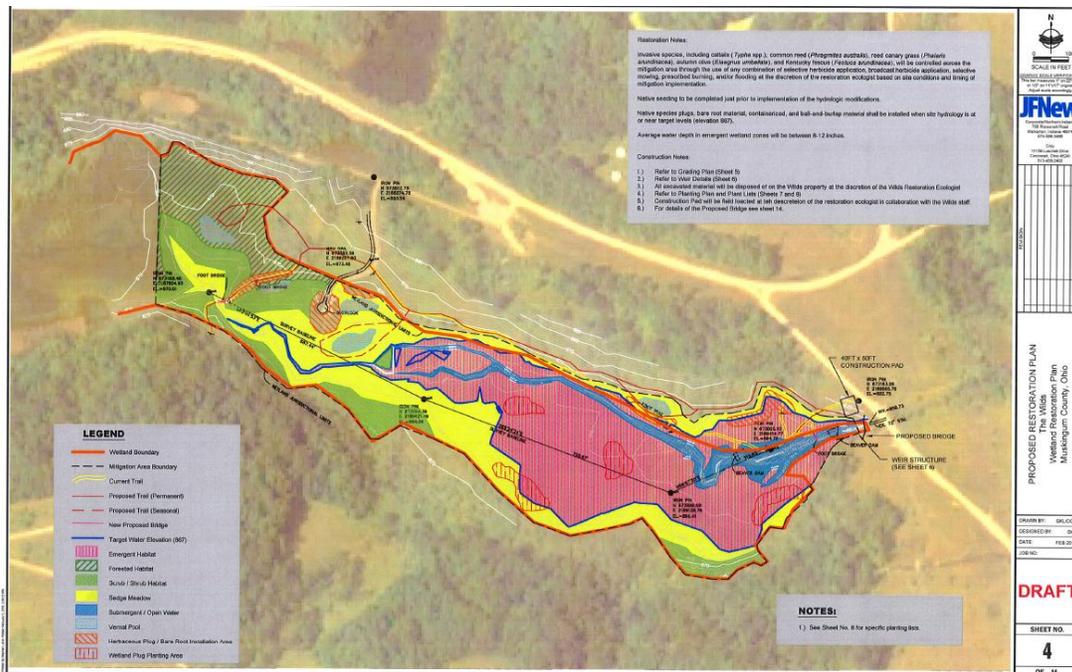
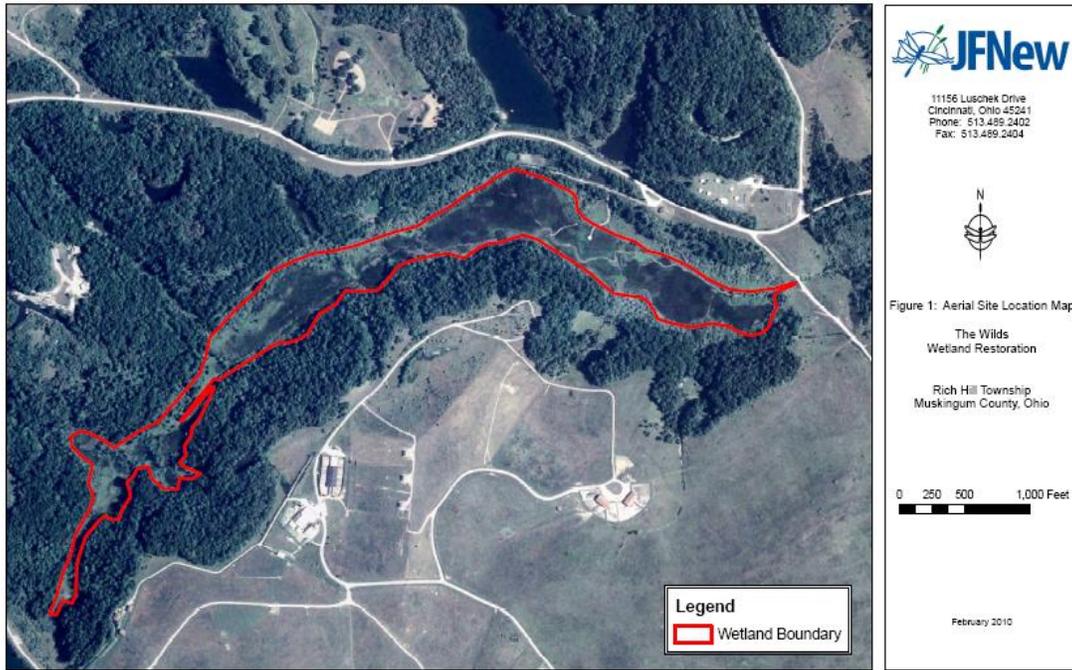
Watershed: Wills Creek Watershed

Project Summary: \$141,736 in Surface Water Improvement Fund (SWIF) grant funding is awarded to the "Wilds" to restore an emergent wetland within the Miller Valley Wetland complex in the Wills Creek Watershed. The wetland complex has been impacted by siltation and inadequate hydrology, resulting in an infestation of non-native species, reduced capacity for filtration and decreased functionality in aquatic habitat. This project will restore at least 20 acres within a 54.7 acre wetland complex through invasive species control, native wetland species plantings, ecological monitoring and long-term project management. Activities will be supported by a project specific education and outreach effort resulting in the production of innovative educational materials, conduction of guided interpretive tours, construction of open-access trails, installation of a kiosk, and project highlight on center's Website. This project is shovel ready and will commence bidding and permitting activities upon receipt of SWIF grant funding.

Project Deliverables:

- Reconstruction and restoration of 20 acres of wetland, which will include execution of planning, design and construction contracts, treatment/removal of 40.0 acres of invasive species, planting of 20 acres of native wetland species, installation of 1 water control device, and micro-topographic grading on 1.5 acres.
- Conduct a project specific public education and outreach program including the production of 1 display, installation of 4 project signs, 1 informational kiosk, conducting approximately 6 workshops per year, and 6 specialty guided interpretive programs per year, and project updates on the center's Website.

Environmental Results: Successful completion of this project is expected to restore 20 acres of wetland, reducing invasive species and providing various habitat types, in a location of decline due to historical mining reclamation disturbances.



EXISTING Wetland Conditions (Top)
PROPOSED Wetland Restoration (Bottom)



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-148

Est. Project Completion August 2011

SubGrantee **City of Lancaster**
121 East Chestnut Street
Lancaster, Ohio 43130

Project Contact: **David S. Smith, Mayor**
City of Lancaster

Amount Awarded: **\$150,000**

Project Title: **Deeds Wetlands**

Project Location: City of Lancaster, Fairfield County
Watershed: Hocking River Watershed

Project Summary: \$150,000 in Surface Water Improvement Fund (SWIF) grant funding is awarded to the city of Lancaster to complete 2 levee breaches, restore approximately 52 acres of wetlands, construct 6,000 linear feet of overwide channel, restore 16 acres of riparian and wetland areas through the planting of native species of trees and shrubs. and to reconnect the floodplain of the Hocking River to 58 acres of floodplain areas that are currently used for agricultural production. The area was formerly part of the floodplain until separated from the river by a levee, resulting in a rerouting of flood flows in other directions. The project will proceed by first breaching the levee and constructing a spillway that will route high flows onto the property. A second spillway will serve as an outlet that will allow high flows to return to the Hocking River from the wetland area. A two-stage channel will be constructed allowing the flow of water to enter through the spillway, be contained and treated in the wetland and then exit back to the river. Wetland and riparian areas will be revegetated and restored using native tree and shrub species plantings on 16 acres. The project site will be protected under 58 acres of conservation easement that will be placed on the project site.

The project will be supported by education and outreach activities such as the development and distribution to interested parties a project specific fact sheet, preparing and distributing 2 news releases articles to area media outlets, a presentation at one public meeting, installation of 20 project signs and informational kiosk, a project website, installation of two project-specific informational kiosks, and the development of a project display.

Project Deliverables:

- Breach existing levees that are resulting in the current restriction of high flows from the Hocking River. Breach sites will also see an installation of an inlet and outlet structure thereby reconnecting approximately 58 acres of riparian areas to the Hocking River floodplain.

- Restore stream channels through the construction of approximately 6,000 linear feet of overwide channel. Native grasses will be planted along 5 acres of riparian areas associated with the overwide channel.
- Restore approximately 52 acres of wetland in floodplain areas that are currently used for agricultural production. Such activity will include the installation of an inlet channel to allow high flows of the Hocking River to access the floodplain and an outlet channel where waters may be returned to the river. Activity shall include the planting of at least 18 acres of wetland areas using native wetland tree and shrub plant species and the installation of one water control device.
- Conduct education and outreach activities including the development and installation of 20 project specific signs, a project-specific fact sheet, a project-specific photo display, 2 press releases, a project specific website, 2 informational kiosks, and newsletters provided to utility customers.

Environmental Results: Successful completion of this project will restore 58 acres of historically riparian wetland areas, install 6,000 linear feet of overwide channel and replant 18 acres of current agricultural lands with native wetland tree and shrub species thereby reducing nonpoint source pollutant loadings to the Hocking River.



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-73

Est. Project Completion January, 2011

SubGrantee Tuscarawas Soil and Water Conservation District
277 – B Canal Avenue SE
New Philadelphia, OH 44663

Project Contact: Jennifer Fisher, District Technician
Tuscarawas Soil and Water Conservation District

Amount Awarded: \$6,255

Project Title: Fort Laurens Public Rain Garden-“Rainy Day Roots”

Project Location: Lawrence Township, Tuscarawas County

Watershed: Wolf Run – Tuscarawas River

Project Summary: \$6,255 in Surface Water Improvement Fund (SWIF) grant funding is awarded to the Tuscarawas County Soil & Water Conservation District (SWCD) to install a community scale rain garden at Fort Laurens State Memorial within the Tuscarawas River watershed. Fort Laurens is a highly visible and publically accessible area where storm water drainage is an issue. Tuscarawas SWCD will use this practice to demonstrate and promote this form of storm water management to landowners and businesses within Tuscarawas County.

The project will be supported by education and outreach activities such as workshops conducted by Tuscarawas SWCD, articles and project pictures within project sponsors newsletters and project specific signage will be installed on the project site.

Project Deliverables:

- Installation of 365 square feet demonstration rain garden with materials including planting soil, decorative stone, gravel, mulch and plants.
- Conduct a project specific public education and outreach program including the development of at least 3 press releases, installation of 1 project sign, 1 brochure, 2 workshops, 3 newsletters and 1 project specific website.

Environmental Results: Successful completion of this project is expected to improve water quality and reduce run-off while serving as an important educational tool for the public.



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-098

Est. Project Completion October, 2011

SubGrantee **Concord Township, Lake County**
7229 Ravenna Road
Concord Township, Ohio 44077

Project Contact: **Jack Nettis, Jr.**
Concord Township, Lake County

Amount Awarded: **\$61,644**

Project Title: **Concord Township Stormwater and Salt Remediation**

Project Location: Concord Township, Lake County
Watershed: Grand River Watershed

Project Summary: \$61,644 in Surface Water Improvement Fund (SWIF) grant funding is awarded to Concord Township in Lake County to install 1,400 square feet of permeable pavers draining to a 590 square foot rain garden that will be constructed in parking areas at the Concord Township Hall facility. Additionally, the project will retrofit a second detention area with a treatment train of gravel wetland and vegetated swale that is designed to remediate high salt content in stormwater flows. The project will be supported by education and outreach activities such as the installation of a project sign highlighting the stormwater benefits, development of a project specific display, distribution of a brochure highlighting details of the project, a project website and conducting a stormwater demonstration workshop for Lake SMD member communities.

Project Deliverables:

- Construction and installation of 1,400 square feet of permeable pavement within the parking area at the Concord Township Hall.
- Design and installation of 590 square feet of rain garden at the site to store storm water.
- Installation of 2,500 square feet of a combination of gravel wetlands and vegetated swale
- Conduct education and outreach activities including the such as the installation of a project sign highlighting the stormwater benefits, development of a project specific display, distribution of a brochure highlighting details of the project, a project website and conducting a stormwater demonstration workshop for Lake SMD member communities.

Environmental Results: Successful completion of this project will demonstrate innovative practices for passively treating and managing stormwater drainage and reducing nonpoint source pollution loadings.



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-097

Est. Project Completion July 2011

SubGrantee Portage County Park District
128 N. Prospect Street
Ravenna, Ohio 44266

Project Contact: Christine Craycroft, Executive Director
Portage County Park District

Amount Awarded: \$46,496

Project Title: Morgan Preserve Stream and Wetlands Restoration

Project Location: Shalersville Township, Portage County

Watershed: Cuyahoga River Watershed

Project Summary: \$46,496 in Surface Water Improvement Fund (SWIF) grant funding is awarded to the Portage County Park District to restore and enhance a degraded unnamed tributary to the Upper Cuyahoga River and restore adjacent riparian wetland areas. The existing tributary will be restored and lengthened from 1,190 linear feet to 1,470 linear feet by adding sinuosity and enhancing habitat features. Wetland restoration will occur on approximately 21 acres of riparian areas with mapped areas of hydric soils and hydric soil inclusions. Restoration will be accomplished by constructing a series of small shallow berms and hummocks aligned perpendicular to the fall of the land. In addition, any existing subsurface tile systems will be disrupted and naturally occurring drainage patterns will be reestablished. Following earthwork completion, wetland areas will be replanted with a native wetlands seed mix. Native forbs, shrubs and tree seedlings will also be planted throughout the restoration area. Plants will consist of plugs, container plants, bare root and live cuttings.

The project will be supported by education and outreach activities such as a volunteer monitoring program, creation of a project specific display, photos, information about restoration needs and benefits and opportunities for park volunteers. A project sign will be installed at the site of the restoration project and 2 educational tours of the project site will be conducted for the general public.

Project Deliverables:

- Restore 1,190 linear feet of stream channel by adding sinuosity, habitat features and lengthening the stream segment to 1,470 linear feet.
- Restore 1,470 linear feet of streambank by recontouring and/or regrading.
- Treating/removing 21 acres of invasive species.



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-151
Est. Project Completion December, 2010

SubGrantee **City of Eastlake**
35150 Lakeshore Blvd.
Eastlake, Ohio 44095

Project Contact: **Mike Semik, Service Director**
City of Eastlake

Amount Awarded: **\$64,479**

Project Title: **Eastlake Service Yard Bio-retention Demonstration**

Project Location: City of Eastlake
Watershed: Chagrin

Project Summary: \$64,479 in Surface Water Improvement Fund (SWIF) grant funding is awarded to the city of Eastlake to install 2 bio-retention cells to treat and reduce runoff from the City of Eastlake's Service Yard. The city will install 2 bio-retention cells totaling 2,700 square feet in areas where there are currently no stormwater management controls in place. This project will serve to demonstrate to local developers, residents and municipal and township service garages in the Lake and surrounding counties that innovative stormwater retrofits can easily be incorporated into service yards and existing parking areas. The project will be supported by education and outreach activities such as the installation of a sign about the project at the entrance and public recycling areas, developing and distributing a project-specific brochure, a webpage addition and a project specific newsletter article in the city's newsletter.

This project is being implemented consistent with the recommendations in the state endorsed Chagrin River Watershed Action Plan. It is also generally consistent with findings and recommendations within the Chagrin River Total Maximum Daily Load study completed by Ohio EPA and approved by US EPA.

Project Deliverables:

- Installation of 2,700 square feet of bio-retention cells within the city of Eastlake's Service Yard.
- Conduct education and outreach activities including the development and installation of 2 project specific signs, creation and distribution of a project-specific pamphlet, 1 newsletter articles and a project-specific addition to the city's website. Additionally, 1 project-specific presentation will also be made to the Board of the Chagrin River

Watershed Partners, the city of Eastlake City Council and to the Lake County Mayors and City Managers Association.

Environmental Results: Successful completion of this project will passively treat stormwater drainage, reduce nonpoint source pollution loadings to the Chagrin River and demonstrate alternative methods of stormwater management for area developers and local officials.



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-012

Est. Project Completion June, 2011

SubGrantee Bath Township Trustees

P.O. Box 1188
Bath, Ohio 44210

Project Contact: Michael Rorar
Bath Township, Summit County

Amount Awarded: \$34,560

Project Title: Permeable Parking Lot and Public Rain Garden

Project Location: Bath Township, Summit County

Watershed: Yellow Creek Watershed

Project Summary: \$34,560 in Surface Water Improvement Fund (SWIF) grant funding is awarded to install 360 square feet of permeable pavement within the Bath Center parking area. Additionally, the project will install a 3,200 square foot rain garden at the site to store the storm water. Bath Township park personnel will plant the rain garden and the no mow grass lawn. The project will be supported by education and outreach activities such as the development and distribution of a project specific fact sheet, preparing and distributing articles in the Township Quarterly News, presentations at several public meetings, installation of a project sign and informational kiosk, a project website and the development of a project display.

Project Deliverables:

- Construction and installation of 360 square feet of permeable pavement within the Bath Center parking area.
- Design and installation of 3,200 square feet of community scale rain garden at the site to store storm water.
- Conduct education and outreach activities including the development and installation of 1 project specific sign and 1 informational kiosk, creation and distribution of 1 project specific fact sheet, presentations at 3 public meetings, 1 news release, a project specific display, creation and distribution of 1 newsletter, conduct 2 workshops and the establishment and maintenance of a project specific website.

Environmental Results: Successful completion of this project will demonstrate innovative practices for passively treating and managing stormwater drainage and reducing nonpoint source pollution loadings.



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-062
Est. Project Completion October 2010

SubGrantee **Knox County Commissioners**
422 Columbus Road
Mount Vernon, Ohio 43050

Project Contact: **James L. Henry, P.E., P.S., County Engineer**
Knox County

Amount Awarded: **\$49,957**

Project Title: **Hiawatha Park Demonstration Project**

Project Location: City of Mt. Vernon, Knox County, Ohio
Watershed: Kokosing River Watershed

Project Summary: \$49,957 in Surface Water Improvement Fund (SWIF) grant funding is awarded to the Knox County Commissioners to install pervious pavement and a rain garden below the parking area in Hiawatha Park a demonstration to show the benefits of pervious pavement and rain garden practices. The two practices, operating in tandem with one another are designed to act as a treatment train where the pervious pavement will accept the initial runoff, filter it and then discharge to the rain garden for additional treatment. Hiawatha Park in the city of Mt. Vernon, Ohio is a heavily used public recreation area with no existing water quality or detention controls. Stormwater from the park currently discharges directly in Center Run, a tributary to the Kokosing River. The project will be supported with informational signs installed in the park highlighting the project and a presentation at the project site as part of the "Heart of Ohio Tour".

Project Deliverables:

- Installation of 7,900 square feet of permeable pavement as part of a project to improve parking facilities within Hiawatha Park in the city of Mount Vernon.
- Design and installation of 1,000 square feet of rain garden at Hiawatha Park to work in tandem with pervious pavement to form a treatment train for stormwater runoff from parking areas.
- Support project activities through the installation of 2 project signs and to conduct one public presentation about the project as part of the "Heart of Ohio Tour".

Environmental Results: Successful completion of this project will demonstrate innovative practices for passively treating and managing stormwater drainage and reducing nonpoint source pollution loadings to the Kokosing River.



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-094

Est. Project Completion June, 2011

SubGrantee **Chester Township Trustees**
12701 Chillicothe Road
Chesterland, Ohio 44026

Project Contact: **J. Meiring Borchers, Stormwater Manager**
Chester Township, Geauga County

Amount Awarded: **\$77,295**

Project Title: **Chester Twp. Innovative Stormwater Demonstration**

Project Location: Chester Township, Geauga County

Watershed: Chagrin River Watershed

Project Summary: \$77,295 in Surface Water Improvement Fund (SWIF) grant funding is awarded to the Chester Township Trustees to retrofit an existing urban parking lot at the Chester Township Hall with 3,000 square feet of grass pavers combined with 2,000 square feet of bio-retention basins. Additionally, the project will install a 1,000 square foot rain garden at the West Geauga High School. The rain garden will be constructed along the southern entrance to the High School's parking lot, and will be installed and maintained by students from the Envirothon Team and Salamander Education and Environmental Discovery Project (SEED). The project will be supported by education and outreach activities such as the development and distribution of a project specific fact sheet, a presentation to the Chagrin River Watershed Partners board, installation of two project signs, 1 news release, a project website and the construction and installation of a project display.

Project Deliverables:

- Construction and installation of 2,000 square feet of bio-retention cells within parking areas located at the Chester Township Hall.
- Installation of 3,000 square feet of grass pavers in parking areas located at the Chester Township Hall.
- Design and installation of 1,000 square feet of rain garden at the entrance to the West Geauga High School parking lot. The rain garden will be designed, installed and maintained by various student groups at the High School.
- Conduct education and outreach activities including the development and installation of 2 project specific signs, creation and distribution of 1 project specific fact sheet, presentations at 2 public meetings including at least one with the Chagrin River Watershed Board, 1 news release, a project specific display, and the establishment and maintenance of a project specific website.

Environmental Results: Successful completion of this project will demonstrate innovative practices for passively treating and managing stormwater drainage and reducing nonpoint source pollution loadings to the Chagrin River.

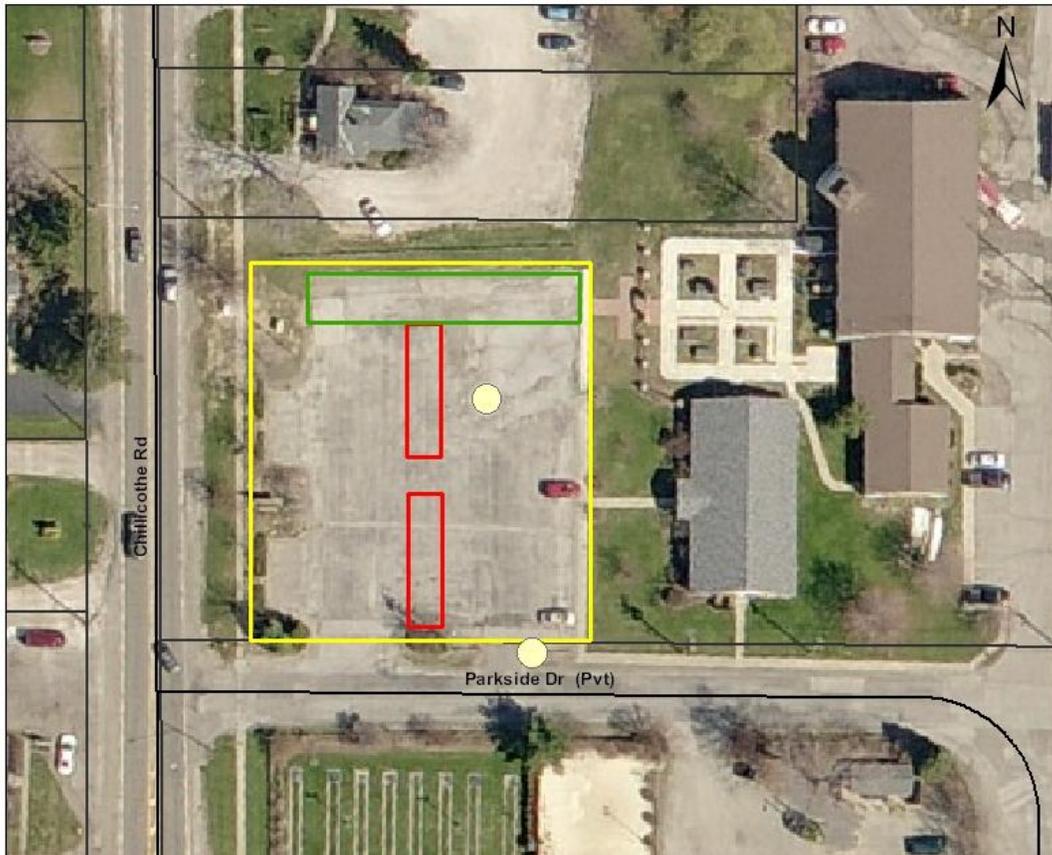


Chester Township Hall
Grass Paver Project Site



West Geauga High School
Rain garden Project Site

Chester Township Town Hall 12701 Chillicothe Road, Chesterland OH 44026





2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-111

Est. Project Completion November, 2010

SubGrantee **Portage County Board of Commissioners**
449 South Meridian St., 7th Floor
Ravenna, Ohio 44266

Project Contact: **Claudia James, GIS Specialist and Planner**
Portage County Regional Planning Commission

Amount Awarded: **\$33,954**

Project Title: **Portage Co. Regional Planning Parking Lot Bio-Retention Cells**

Project Location: City of Ravenna
Watershed: Breakneck Creek—tributary to the Cuyahoga River

Project Summary: \$33,954 in Surface Water Improvement Fund (SWIF) grant funding is awarded to the Portage County Commissioners to retrofit an existing urban parking lot within Ravenna's business district with two 2 bio-retention cells to demonstrate new ways of dealing with storm water run-off in older urban areas. SWIF grant funding will be used to construct the two bio-retention cells between the Portage County Planning Commission parking lots and public parking areas to the north. These cells will intercept and filter surface run-off prior to emptying into a catch basin. The project will be supported by education and outreach activities such as the development and distribution of two fact sheets, a presentation during the Portage Regional Planning Commission's board meeting, conducting a public meeting on the premises for contractors, businesses, engineers and resident, a project-specific newspaper article in the Ravenna Record Courier and project specific signage.

Project Deliverables:

- Construction and installation of 615 square feet of bio-retention cells within the city of Ravenna in a parking lot servicing the Portage County Regional Planning Commission.
- Conduct education and outreach activities including the development and installation of 3 project specific signs, creation and distribution of 2 project specific fact sheets, 3 public meetings, 1 newsletter articles and a newspaper article in the Ravenna Record Courier.

Environmental Results: Successful completion of this project will passively treat stormwater drainage, reduce nonpoint source pollution loadings to the Breakneck Creek and ultimately the Cuyahoga River and demonstrate alternative methods of stormwater management for area developers and local officials.



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-015

Est. Project Completion July 2011

SubGrantee **Meigs County Soil & Water Conservation District**
33101 Hiland Road
Pomeroy, OH 45769

Project Contact: **Jim Freeman, Wildlife/Watershed Coordinator**
Meigs County SWCD

Amount Awarded: **\$1,273**

Project Title: **Meigs SWCD Riparian Forest Buffer Demonstration**

Project Location: Rutland Township, Meigs County
Watershed: Little Leading Creek

Project Summary: \$1,273 in Surface Water Improvement Fund (SWIF) grant funding is awarded to the Meigs County SWCD to install a three-zone riparian buffer along Little Leading Creek on the Meigs County SWCD Conservation Area. The first 30-feet from the top of the stream bank will be planted to hardwood trees at a density of 436 trees per acre. The 30-foot second zone will be planted with a mixture of hardwood trees and shrubs. Native species appropriate to riparian areas will be selected including species such as cherry, walnut, maple, white oak, persimmon, sumac, pawpaw, black walnut, flowering dogwood, silver maple and American redbud. The trees will be bare-root seedlings planted by hand by SWCD staff or by trained volunteers. The final 30-foot section of the buffer will be planted with a mixture of native, warm-season grasses and forbs which be planted using a no-till planting drill.

The project will be supported by conducting the planting as part of a field day activity for local landowners or producers who are interested in learning more about conservation. The riparian forest buffer will be used as a future informational stop on future Leading Creek watershed tours. The project will also be supported by other outreach activities such as the installation of a project sign and the preparation and distribution of three press releases.

Project Deliverables:

- Installation of a 90-foot wide three-zone riparian buffer along 2 acres of Little Leading Creek on the Meigs SWCD Conservation Area. The first 30-foot wide section shall consist of native hardwood tree plantings. The second zone shall be comprised of plantings of native trees and shrubs followed by a third zone comprised of warm season grasses and forbs.

- Conduct education and outreach activities including the development and installation of a project specific sign, preparation and distribution of 3 news releases and a field day highlighting the features of the demonstration project..

Environmental Results: Successful completion of this project will demonstrate the value of three-zone riparian buffers as an effective tool for reducing agricultural related nonpoint source pollution.



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-118

Est. Project Completion May 31, 2012

SubGrantee **Mill Creek MetroParks**
7574 Columbiana-Canfield Road
Canfield, Ohio 44406-0596

Project Contact: **Kirsten Peetz**
(330) 702-3000

Amount Requested: **\$10,850**

Project Title: **Demonstration Rain Garden at MetroParks Farm**

Project Location: Canfield Township, Mahoning County

Watershed: Mill Creek

Project Summary: \$10,850 in Surface Water Improvement Fund (SWIF) grant funding is awarded to install a community scale rain garden at the MetroParks Farm facility. The MetroParks farm provides a highly visible, highly utilized and easily accessible location for a demonstration rain garden. Mill Creek MetroParks will use this practice to demonstrate and promote this form of storm water management to property owners.

Activities will be supported by a project specific education and outreach effort resulting in the production and distribution of informational brochures, installation of interpretive signs, issuance of press releases, a project website, and sponsorship of two (2) educational workshops.

Project Deliverables:

- Installation of 2300 square feet of community scale rain garden demonstration area at the MetroParks Farm Facility. This building is an ideal demonstration site, receiving more than 75,000 visitors per year.
- Conduct a project specific public education and outreach program including the development of 3 press releases, installation of 1 project sign, a project website and 2 rain garden workshops.

Environmental Results: Successful completion of this project will demonstrate alternative methods of storm water management for local property owners.