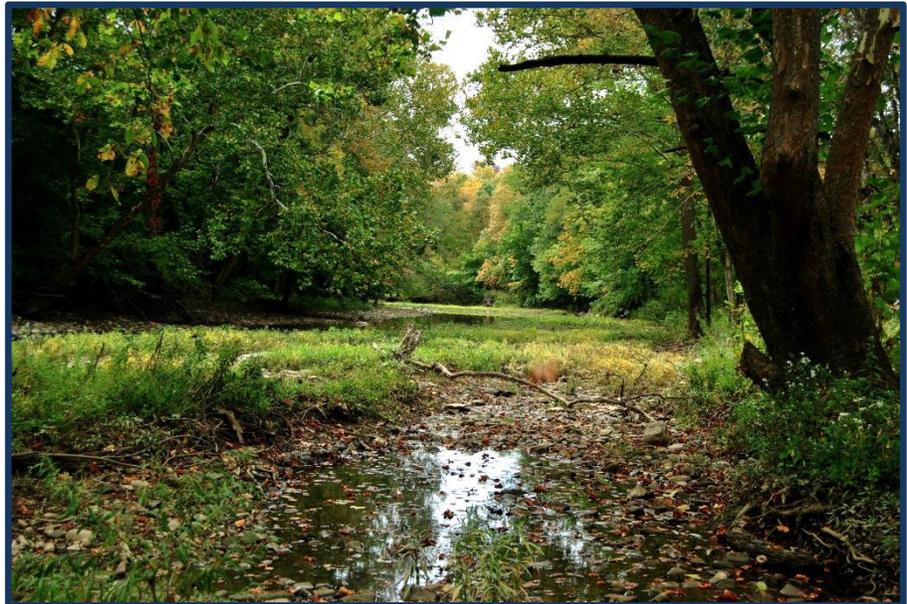


September 30, 2013



Nonpoint Source Program **FY13 Annual Report**



Big Walnut Creek
Galena, Ohio
Photo by Russ Gibson

John Kasich, Governor
Mary Taylor, Lt. Governor
Scott Nally, Director

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FY12 Nonpoint Source Management Program Division of Surface Water

Introduction:

During FY13 Ohio EPA received \$4,511,000 in federal section 319(h) grant funds under provisions of US EPA Grant # C9-97550013 to implement components of Ohio's Nonpoint Source (NPS) Program. Ohio EPA's Division of Surface Water provides primary coordination and implementation of Ohio's NPS program in partnership with the Ohio Department of Natural Resources, Agriculture and others. The framework for Ohio's NPS program is the NPS Management Plan that was approved by US EPA on August 29, 2006 and as revised during 2009 and 2010. Provisions of the approved plan effectively guide Ohio's implementation of state and local nonpoint source management measures and activities through 2013. Ohio's approved NPS Management Plan is available for review on the internet at: <http://www.epa.state.oh.us/dsw/nps/NPSMP/index.html>. Ohio's NPS Management Plan is scheduled for update and revision in 2013.

Ohio's NPS Program supports implementation of several statewide water quality initiatives. These include the state's overall goal of having 100% of Ohio large river units and 80% of small watershed units in full attainment of their designated aquatic life use by 2020. In turn, these strategic priorities help to focus Ohio's NPS program by:

1. Aligning Section 319 grant resources directly to Ohio's water quality goals
2. Improving implementation of approved TMDL and watershed plans
3. Funding projects that eliminate impairments and restore impaired waters
4. Protecting high quality waters from NPS degradation.

Activities successfully implemented during FY12 to support and/or enhance Ohio EPA's Nonpoint Source Program include:

Program & Organizational Management

Situated within the Ohio Environmental Protection Agency's Division of Surface Water, the Nonpoint Source Management Program is comprised of 5 full-time staff. Other programs that are situated within the Division of Surface Water include programs such as the Total Maximum Daily Load Program (TMDL), Lake Erie Program, Ecological Assessment (monitoring), Stormwater Regulatory Program and the Stream and Wetland Permitting and Mitigation Programs. Such a blend helps to insure appropriate levels of coordination, program integration and available levels of assistance to Ohio's Nonpoint Source Program.

During the FFY13 reporting period, there have been considerable changes, challenges, increased demands on limited staffing and significant (and sometimes very confusing) shifts in federal section 319 program direction. However, despite such challenges Ohio's NPS Management Program added four Great Lakes Restoration Initiative grants to continue to expand upon green stormwater practice installation and stream and wetland restoration projects. FFY2014 is also shaping up to be quite busy and productive. During the reporting period, Ohio NPS Program staff participated in the following general program and coordinative activities:

- NPS staff attended each of the quarterly meetings of the USDA-NRCS State Technical Committee. Rick Wilson also participates in STC Environmental Quality Incentives Program sub-committee.
- Russ Gibson and George Elmaraghy participated in 2 strategic planning meetings with Deputy Director Gebhart and Assistant Soil & Water Chief Mike Bailey to discuss needed changes in Soil and Water's Section 319 Core funded activities.
- Russ Gibson met with Dr. Joe Bonnell of Ohio State University Extension to discuss needed changes to the nonpoint source programming that Extension performs using section 319 funds from Ohio EPA. This meeting was conducted on 01/11/13 and resulted in a shift from an annual allocation to a competitive project-based funding model for extension. Previously, grant funds
- NPS Program staff participated with the Lake Erie Commission's agency stakeholder exercise as part of the development of the nonpoint source section of the 2013 Lake Erie Protection and Restoration Plan (LEPRP). This meeting was conducted in Bucyrus on 12/18/13 and included staff from the Lake Erie Commission as well as from ODNR's Division of Soil & Water Resources. The LEPRP is used by the Commission to help prioritize their activities and their limited grant funds.
- Rick Wilson represented the NPS program on Phase II of the Ohio Lake Erie Phosphorus Task Force. During the reporting period Mr. Wilson attended meetings, conference calls and assisted with reviewing and commenting on draft versions of the Task Force's recommendations and report. A final report is expected to be released sometime during fall or winter 2013.
- Rick Wilson represented Ohio EPA at the Mississippi River Gulf of Mexico Watershed Nutrient Task Force workshop "Building Science Assessment for State-Level Nutrient Reduction Strategies" in Davenport, Iowa during November, 2012.
- Russ Gibson attended the Region 5 Nonpoint Source Program Manager's meeting in Chicago on 7/16 and 7/17. This meeting was conducted to help states learn more about and adjust to the significant programming changes and national 319 guidance that was issued this spring. Lynda Hall, Chief of the NPS Branch at US EPA in Washington DC attended and provided clarity on some of the issues that were of concern to the states. This meeting also discussed at some length the challenges with implementing the National Water Quality Initiative with USDA-NRCS.
- Rick Wilson serves as Ohio's NPS program representative on the Boards of the Ohio Certified Crop Advisors (CCA) and Ohio Certified Professional Soil Scientists. Mr. Wilson attended one meeting of the Board during the reporting period.
- Rick Wilson attended STEPL load reduction estimate training in Toledo, Ohio. This training was conducted by Region 5 US EPA and is the prime load reduction tool for the GRTS and GLAS database systems.

- Russ Gibson participated in two conference calls with the US Army Corps of Engineers and the Ohio State Parks to discuss and help produce a HAB response protocol for Army Corps owned lakes with ODNR recreational facilities. The COE uses HAB cell counts for determining whether a public health advisory should be posted at recreational facilities; ODNR uses toxin analyses and levels. Ohio EPA was able to broker a compromise that allows the COE to continue to use HAB cell counts as indicators that more detailed toxin analysis should occur. Ohio EPA is providing lab services etc. at no cost to either the COE or ODNR.
- On January 8th NPS Manager Russ Gibson and Ohio EPA Director Scott Nally attended a meeting with ODNR's Director and Deputy Director, as well as USDA-NRCS State Conservationist Terry Cosby to discuss NRCS's Certainty Program.
- On February 27th Ohio EPA's NPS Program staff and Ohio EPA's Deputy Director for Communications met with the Director of the Ohio State Fair and his staff to discuss stormwater management issues of concern. Ohio's state fairgrounds are significantly more than 100 years old and suffer from antiquated infrastructure and large masses of impervious surfaces. We discussed green infrastructure retrofits and green stormwater demonstration areas as possible steps toward improving acceptance and understanding of these practices. Talks are ongoing.
- Gibson participated in several meetings with Ohio State University's Chadwick Arboretum to help facilitate the installation of a Green Roof on their horticulture and landscaping building. The roof was installed during the summer of 2013 and is featured in the photo shown below.



The Green Roof at Howlett Hall on the Ohio State University Campus completed under provisions of Section 319 subgrant Project #09(h)EPA-29.

Section 319(h) Grant Management

The cornerstone of Ohio EPA's Nonpoint Source Management Program is the Section 319(h) Grants Program administered by the Division of Surface Water. During the reporting period, Ohio's NPS Program grant staff was administering sub-grants awarded under provisions of Section 319(h) grants covering five annual grant cycles. Following is a list of active Section 319(h) grants currently being managed by Ohio EPA:

- | | |
|-----------------------------------|-----------------------|
| ○ FY09 Federal Grant #C9975500009 | Grant closes 12/30/14 |
| ○ FY10 Federal Grant #C9975500010 | Grant closes 04/15/15 |
| ○ FY10 Federal Grant #00E00782 | Grant closes 04/15/15 |
| ○ FY11 Federal Grant #C9975500011 | Grant closes 10/15/15 |
| ○ FY12 Federal Grant #C9975500012 | Grant closes 10/15/16 |
| ○ FY13 Federal Grant #C9975500013 | Grant Closes 04/15/18 |

Ohio EPA received an FY13 Section 319(h) allocation of \$4,511,000 matched by state and local funds of \$3,007,035 for total program funding of \$7,518,355. The federal allocation represents an additional 5% reduction from FY12 allocations—reductions since FY10 now total more than 1.25 million. Combined with increased programming limitations resulting from recent changes in national program guidelines, continued budget reductions stress state programming and stifle the kind of flexibility and creativity that is absolutely critical for implementing successful state nonpoint source projects. In the past two years, Ohio EPA has been forced to absorb more than \$500,000 in direct funding to the agency for program implementation.

Ohio's NPS Program directly absorbed these cuts in order to maintain marginally viable funding levels for other core program participants such as the Department of Natural Resources, Division of Soil & Water Resources. Decisions made in 2006 to strategically reduce NPS Program staff levels from 11 to 5 FTE's has enabled us to absorb yet another round of funding cuts while maintaining program staffing at FY09 levels.

- Ohio's NPS Program is currently managing 61 Section 319(h) local subgrants under the provisions of six different Section 319(h) grants from US EPA. A breakdown of Section 319 grants and the current number of active subgrant funded projects follows:

○ FY09 Federal Grant #C9975500009	12 funded projects currently active
○ FY10 Federal Grant #C9975500010	8 funded projects currently active
○ FY10 Buckeye Lake Grant #00E00782	4 funded projects currently active
○ FY11 Federal Grant #C9975500011	13 funded projects currently active
○ FY12 Federal Grant #C9975500012	13 funded projects currently active
○ FY13 Federal Grant #C9975500013	11 funded projects currently active
- NPS Program Administrative Assistant Jo Hodanbosi compiled Section 319 and SWIF grants data analyzed by funding trends, watershed funding etc. For example, in the two years that the Surface Water Improvement Fund grants have been available, Ohio EPA has provided funding assistance to 87 participants totaling more than \$9.2 million. 56% of these funds were awarded for green stormwater BMP demonstration projects followed by 28% for stream and wetland restoration projects. (These documents are available upon request).
- NPS Program staff continues to close out sub-grants in a timely and efficient manner. The following table identifies those Section 319(h) Subgrants that were closed out during the reporting period:

Section 319(h) Subgrants Closed Out during FFY 2013
Grants closed out through 9/30/13

Project Number	Project Sponsor	Total Federal Awarded	Total Federal Expenditures	% Spent	Date Closed
08(h)EPA-11	Cuyahoga SWCD	\$235,428	\$235,428	100.0%	2/1/2013
08(h)EPA-29	IVEX Chagrin Falls	\$400,800	\$293,120	73.1%	2/15/2013
08(h)EPA-35	Franklin SWCD	\$194,324	\$140,810	72.5%	2/15/2013
09(h)EPA-07	Cuyahoga County Board of Health	\$329,208	\$329,208	100.0%	3/31/2013
09(h)EPA-12	Mercer County Soil & Water District	\$191,650	\$149,291	77.9%	7/15/2013
09(h)EPA-14	MetroParks Furnace Run	\$249,984	\$249,984	100.0%	2/15/2013
09(h)EPA-15	Mill Creek Watershed Council	\$317,420	\$317,420	100.0%	12/31/2012
09(h)EPA-18	ODNR/Parks & Recreation Division	\$250,000	\$231,139	92.5%	3/15/2013
09(h)EPA-23	ODNR/Parks & Recreation Division	\$100,000	\$100,000	100.0%	2/15/2013
09(h)EPA-25	City of Lebanon	\$60,000	\$60,000	100.0%	5/31/2013
09(h)EPA-26	Bath Township Trustees	\$29,071	\$29,071	100.0%	6/15/2013
09(h)EPA-27	Liberty Township	\$123,910	\$114,103	92.0%	8/23/2013
09(h)EPA-28	ODNR/Parks & Recreation Division	\$47,157	\$47,157	100.0%	3/31/2013
10(h)EPA-05	Ohio State University Extension	\$100,000	\$100,000	100.0%	2/26/2013
10(h)EPA-07	City of Fremont	\$267,000	\$267,000	100.0%	10/1/2012
10(h)EPA-08	Geauga County Park District	\$400,000	\$181,361	45.3%	1/31/2013
10(h)EPA-10	Lake County Metroparks	\$349,584	\$294,530	84.3%	2/15/2013
10(h)EPA-20	Mercer County Commissioners	\$484,000	\$484,000	100.0%	6/30/2013
11(h)EPA-02	ODNR-Division of Soil & Water	\$261,200	\$261,200	100.0%	09/06/2013
11(h)EPA-03	ODNR-Division of Soil & Water	\$167,080	\$167,080	100.0%	5/13/2013
11(h)EPA-10	Village of Mayfield	\$184,429	\$161,396	87.5%	12/17/2012
11(h)EPA-09	City of Springdale	\$362,920	\$249,289	68.7%	9/30/2012
TOTALS		\$5,105,165	\$4,462,587	87.4%	

- NPS Program staff updated section FY14 319(h) grant application materials, RFP, review criteria and grant agreement language. Applications for FY14 Section 319 grant funding were due to Ohio EPA on 5/31/13. Program staff is currently in the process of reviewing and processing the 26 applications requesting nearly \$4 million that were received. Recommendations will be forwarded to Region 5 for consideration by 10/15/13. We anticipate having decisions made and an FY14 Section 319 grant

application submitted by November 15th, 2013. Following is a table of applicants for the FY14 Section 319(h) Grants Program:

FY2014 Section 319(h) Subgrant Applications Received
Currently under review (8/27/13)

Application Number	Applicant	Project Type	Total Requested
#14(h)EPA-05	Village of Lowellville	Dam Removal	\$90,000
#14(h)EPA-06	City of Springfield	Stormwater Demonstration Project	\$100,000
#14(h)EPA-07	Midwest Biodiversity Institute	Stream Restoration	INELIGIBLE
#14(h)EPA-08	Columbus Downtown Development	Stream Restoration	\$300,000
#14(h)EPA-09	Midwest Biodiversity Institute	Stream Restoration	INELIGIBLE
#14(h)EPA-10	City of Delaware	Wetlands Restoration	\$214,252
#14(h)EPA-11	City of Wyoming	Stream Restoration	\$296,884
#14(h)EPA-12	City of Stow	Stream Restoration	\$248,893
#14(h)EPA-13	City of Lancaster	Riparian Restoration	\$125,000
#14(h)EPA-14	Rural Action, Inc.	Acid Mine Drainage Abatement	\$99,271
#14(h)EPA-15	West Creek Preservation Committee	Stormwater Demonstration Project	\$67,829
#14(h)EPA-16	Washington Twp, Montgomery County	Stormwater Demonstration Project	\$135,000
#14(h)EPA-17	Appalachia Ohio Alliance	Riparian Restoration-Reforestation	INELIGIBLE
#14(h)EPA-18	Village of Reminderville	Stream Restoration	\$59,820
#14(h)EPA-19	Village of Madison	Stream Restoration	\$95,107
#14(h)EPA-20	City of Huron	Stream Restoration	\$53,820
#14(h)EPA-21	City of Mayfield Heights	Stormwater Demonstration Project	\$99,367
#14(h)EPA-22	City of Franklin	Stream Restoration	\$276,000
#14(h)EPA-23	Liberty Township	Riparian Restoration	\$24,000
#14(h)EPA-24	Ottawa County SWCD	Agricultural BMP's	\$146,325
#14(h)EPA-25	City of Solon	Stream Restoration	\$105,000
#14(h)EPA-26	Cleveland Metroparks	Stream/Wetland Restoration	\$144,000
#14(h)EPA-27	City of Rocky River	Stormwater Demonstration Project	\$126,000
#14(h)EPA-28	City of Broadview Heights	Stormwater Demonstration Project	\$200,000
#14(h)EPA-29	Wayne County Izaak Walton League	Riparian Restoration	\$27,300
#14(h)EPA-30	City of Fairview Park	Stormwater Demonstration Project	\$84,000

- During the reporting period, Martha Spurbeck and Jo Hodanbosi prepared contract language, budgets and deliverable sheets for 20 subgrant agreements for FY13 Section 319(h) subgrants and Supplemental FY13 Section 319 subgrants. All subgrant agreements for these grants have been executed and projects started.
- Developed and distributed a Supplemental Section 319 Request for Proposals (RFP) designed to help Ohio EPA reprogram unobligated and/or unspent funds from previous grant cycles. We received 13 applications for supplemental funding and following an administrative and technical review by NPS Program staff 9 applications were funded totaling \$689,030. Two projects were funded with unspent FY09 Section 319(h) grant funds; three projects were funded with unspent FY10 Section 319(h) funds and four projects were funded with FY11 Section 319(h) funds. NPS Program staff prepared and processed 9 subgrant agreements, budgets and deliverable worksheets for these projects. Following is a table that identifies projects funded under this Supplemental grant cycle:

Supplemental Section 319(h) Subgrants Awarded during FFY 2013
Current through 09/30/13

Project Number	Subgrant Sponsor	Type of Project	Amount Awarded
#09H)EPA-30S	Akron Zoological Park	Stormwater Demonstration	\$71,290
#09(h)EPA-31S	Lake County Stormwater Dept.	Stormwater Demonstration	\$100,000
#10(h)EPA-22S	City of Ravenna	Stormwater Demonstration	\$100,000
#10(h)EPA-24S	Holden Arboretum	Stream Restoration	\$100,000
#10(h)EPA-25S	Butler County Water & Sewer	Stream Restoration	\$100,000
#11(h)EPA-32S	West Creek Preservation	Stormwater Demonstration	\$68,000
#11(h)EPA-33S	Village of Pepper Pike	Stormwater Demonstration	\$51,150
#11(h)EPA-34S	City of Reynoldsburg	Stormwater Demonstration	\$80,138
#11(h)EPA-35S	Village of Brooklyn Heights	Stormwater Demonstration	\$18,452
TOTALS			\$689,030

- Grants administrator Martha Spurbeck, NPS Agricultural Specialist Rick Wilson and NPS Program Manager Russ Gibson conducted site visits with the following section 319(h) subgrantees during the reporting period:
 - #09(h)EPA-13 City of Marysville
 - #09(h)EPA-15 Mill Creek Watershed Council
 - #09(h)EPA-18 ODNR-Division of Parks & Recreation-Grand Lake State Park
 - #09(h)EPA-19 City of Reynoldsburg

- #09(h)EPA-20 University of Toledo
 - #09(h)EPA-21 Olander Park District
 - #09(h)EPA-23 ODNR-Division of Parks & Recreation-Grand Lake State Park
 - #09(h)EPA-27 Liberty Township
 - #09(h)EPA-29 Ohio State University-Chadwick Arboretum
 - #10(h)EPA-14 City of Mason
 - #10(h)EPA-20 Mercer County Commissioners Prairie Creek Treatment Train
 - #11(h)EPA-12 City of Toledo
 - #11(h)EPA-20 Westerville Parks and Recreation
 - #11(h)EPA-21 Toledo Botanical Garden
 - #11(h)EPA-24S City of Reynoldsburg
 - #11BUCK11-01 ODNR-Division of State Parks-Buckeye Lake State Park
 - #11BUCK11-02 Buckeye Lake for Tomorrow
 - #11BUCK11-03 Fairfield County Soil & Water Conservation District
 - #11BUCK11-04M Village of Buckeye Lake
 - #12(h)EPA-22 Toledo Metropolitan Area Council of Governments
 - #12(h)EPA-28 Columbus/Franklin County Metroparks
 - #12(h)EPA-37 Franklin County Soil & Water Conservation District
- All pollutant load reductions have been calculated and updated in the national Grants Tracking System (GRTS). (Please refer to Tables 2-1 through 2-10 for respective load reduction updates).
 - During the reporting period, Martha Spurbeck and Jo Hodanbosi processed 74 Section 319(h) subgrant payment requests, received, reviewed and processed 68 semi-annual progress reports, 136 quarterly fiscal reports and closed out 18 prior cycle section 319(h) subgrants.



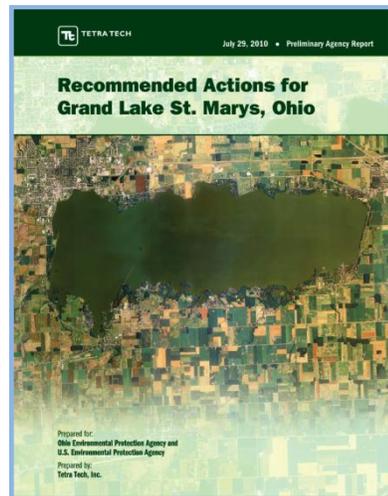
Site visits with subgrantees provide critical opportunities to evaluate progress, provide technical assistance and build positive rapport between Ohio EPA and local project sponsors.

**FY09 Section 319(h) Grand Lake St. Marys Project
 Federal Grant #C9- 00E798-01
 State Grant #GRAND09**

FY09 Section 319(h) Grant Funds: \$490,000 (as US EPA In-Kind)
 State Matching Funds Provided: \$326,667 (SWIF Funds)

This project was implemented to help improve water quality in and around the Grand Lake St. Marys watershed. In-kind US EPA funding was provided to the Ohio office of the Natural Resources Conservation Service to provide for an NRCS watershed project leader and two additional NRCS conservationists to focus farm conservation planning and best management practice implementation in three subwatersheds within the Grand Lake watershed. Targeted watersheds include Beaver, Coldwater and Grassy/Monroe Creeks—selected due to their geographic proximity to the city of Celina’s drinking water intakes as well as the relatively low acceptance of conservation practices in recent NRCS EQIP sign ups. Funding for this project was provided via an Interagency Agreement executed directly between US EPA—Region 5 and USDA-Natural Resources Conservation Service (Ohio).

The Grand Lake St. Marys Nutrient Reduction Initiative included US EPA-Region 5 providing technical assistance to Ohio EPA and lake area stakeholders through contractors paid using US EPA funding to develop site specific recommendations plans for lake (and near-lake) management practices. This management plan was completed by Tetrattech contractors on 29, 2010 and provided a framework for implementation for Ohio EPA, Ohio DNR’s Division of Parks & Recreation, and local stakeholders. The recommendations included in the document titled “*Recommended actions for Grand Lake St. Marys*” continue to guide Ohio EPA funding decision-making in the watershed. Funding for this component of the project was managed through a direct contract between Tetrattech and US EPA-Region 5.



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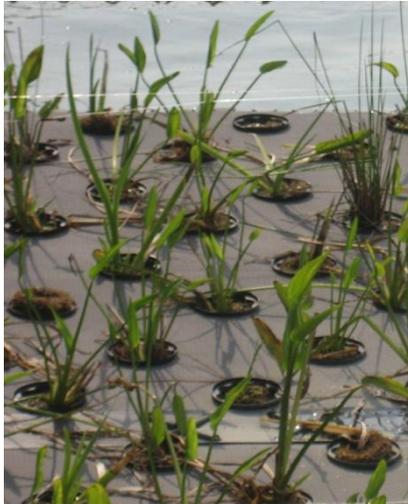
Nationally recognized limnologist Dr. Harry Gibbons providing consultation at Grand Lake St. Marys. (TOP) Alum treatments were applied in 2011 and 2012 at Grand Lake (LEFT).

Following is a table identifying all of those activities that have been funded in the Grand Lake St. Marys watershed since 2010:

Grand Lake St Marys State, Local and Federal Funding Assistance Implementation Projects-FY09 through FY12

Updated 01-25-13

Grantee	Management Action	Amount	Funding Source	Status
St. Marys Township	Install Sediment Collection System	\$90,500	Ohio EPA-Sec 319 Funds	Complete
USDA-NRCS	Agricultural BMP Assistance	\$495,000	US EPA-Sec 319 Funds	Complete
Mercer County	Installation of Airy-Gator	\$60,000	Ohio EPA-SWIF Funds	Complete
Mercer County	Prairie Creek Treatment Train	\$484,000	Ohio EPA-Sec 319 Funds	Underway
Mercer Co. SWCD	Agricultural BMPs and Home Septic	\$191,650	Ohio EPA-Sec 319 funds	Underway
ODNR-Parks & Rec	2010 Alum Demonstration Projects	\$250,000	Ohio EPA-Sec 319 Funds	Complete
ODNR-Parks & Rec	2011 Alum Demonstration Projects	\$100,000	Ohio EPA-Sec 319 Funds	Complete
Algae Ventures, Inc	Diatom Enhancement Demonstration	\$25,000	Rural Rehab Funds	Complete
USGS	Water Quality Monitoring in GLSM	\$200,000	OWDA Grant Funds	Complete
Yellow Springs Inst.	GLSM Automated Monitoring System	\$24,500	Ohio EPA-Sec 319 Funds	Ongoing
Ohio EPA-DSW	GLSM Fish Tissue Study	\$28,000	OWDA Grant Funds	Complete
ODNR-Parks & Rec	Lakewide Alum Treatment Project 2011	\$3,800,000	OEPA-WPCLF Loan Funds	Complete
ODNR-Parks & Rec	GLSM Annual Dredge Program (\$485K/yr)	\$1,940,000	ODNR Waterway Safety	Ongoing
ODNR-Parks & Rec	State Parks Dredge Budget Supplement	\$750,000	Transportation Budget Bill	Complete
ODNR-Parks & Rec	Third Dredge Purchase	\$800,000	ODNR Waterway Safety	Complete
ODNR-Parks & Rec	Statewide Dredge Expenses	\$231,600	ODNR Waterway Safety	Complete
ODNR Parks & Rec	Large Scale Alum Treatment Project 2012	\$5,000,000	WPCLF/OWDA	Complete
Ohio EPA-DSW	Alternative Technologies Review	\$0	US EPA and others	Complete
Parks & Rec-Wildlife	GLSM Rough Fish Removal Project	\$27,000	ODNR Funds	Complete
GLSM Commission	Get the Carp Out Tournament	\$5,000	Locally Donated Funds	Complete
Soil & Water Resources	Soil & Water Resources GLSM Staff	\$801,200	USDA-NRCS & ODNR Funds	Ongoing
USDA-NRCS	Agricultural Best Management Practices	\$817,115	USDA-Special EQIP Funds	Ongoing
USDA-NRCS	Agricultural Best Management Practices	\$4,586,794	USDA-Special EQIP Funds	Ongoing
USDA-NRCS	Agricultural Best Management Practices	\$1,000,909	USDA-Special EQIP Funds	Ongoing
Heidelberg College	Chickasaw Creek Monitoring Station	\$250,000	USDA-NRCS	Complete
Streamside Solutions	Install Sediment Collection System	\$125,000	Locally Donated Funds	Complete
Streamside Solutions	Installation of Airy-Gator	\$60,000	Locally Donated Funds	Complete
KCI, Incorporated	GLSM Commission Strategic Plan	\$50,000	Locally Donated Funds	Complete
Tetrattech Inc.	Lake Management & Alum Assistance	\$250,000	US EPA Headquarters \$\$	Complete
Tetrattech, Inc.	Management Planning & Technical Asst.	\$154,119	US EPA Region 5 Funds	Underway
Battelle, Inc.	Alternative Technology Assistance	\$50,000	ODNR and Local Funds	Complete
Mercer County SWCD	Floating Wetlands & Geotube Deployments	\$150,000	USDA-NRCS	Complete
Soybean Association	On-Farm Network	\$200,000	USDA-NRCS	Underway
US EPA ORD	RARE Phosphorus Research Project	\$272,500	US EPA and USDA	Underway
GLSM Restoration	Enhancement of Prairie Creek Treatment Train	\$500,000	Ohio EPA-Sec 319 Funds	Underway
GLSM Restoration	Enhancement of Prairie Creek Treatment Train	\$100,000	Ohio Dept. of Agriculture	Underway
ODNR	Acquisition of Prairie Creek Treatment Land	\$255,000	Ohio DNR	Complete
Mercer County	Prairie Creek Shoreline Development	\$1,100,000	ODNR Capital Improvement	Underway
US EPA ORD	RARE Phosphorus Research Project	\$272,500	US EPA and USDA	Underway
Subtotal Projects Funded to Date		\$25,497,387		



Where are we today at Grand Lake?

Nutrient reduction and restoration activities that are ongoing at Grand Lake include dredging, aerating poorly circulating channels and bays, installation of floating wetlands, rough fish removal in both 2011 and 2012 and alum treatments in both 2011 and 2012. Such activities are contributing to incremental improvements in water quality; however there remains much work to be done in the watershed. It is expected that it may take as many fifteen years to be able to measure noticeable improvements within the lake.



FY11 Section 319(h) Buckeye Lake Nutrient Reduction Project
Federal Grant #C9-00E00782-0
State Grant #BUCK11



Buckeye Lake is one of five canal feeder lakes in Ohio that were constructed in the mid-1800's to provide water supply for the Ohio-Erie Canal. It is a heavily used recreational lake and is home to one of Ohio's more heavily visited state parks. The Buckeye Lake Nutrient Reduction Demonstration Project is an important component of Ohio's statewide nutrient reduction efforts since it serves as a demonstration on dealing with nutrient related issues at an inland lake. The foundation of the collaboration associated with this project is the preparation of a nutrient reduction strategy and plan. Project partners include Ohio EPA, Ohio DNR, Buckeye Lake for Tomorrow, Buckeye Lake State Park, the village of Buckeye Lake and the Fairfield County Soil and Water Conservation District.

Ohio EPA Reported Progress to Date: Ohio EPA's primary responsibilities with the Buckeye Lake Nutrient Reduction Demonstration Project involve providing technical assistance, administering subgrants, and conducting two years of water quality monitoring including in-lake sampling, tributary sampling and the maintenance of an in-lake YSI Sondes unit. During the reporting period, Ohio EPA completed the following:

- Ohio EPA's NPS program staff has successfully executed 4 subgrants under the Buckeye Lake Nutrient Reduction Demonstration Project. Section 319 federal subgrant recipients include ODNR-Division of

Parks & Recreation, Fairfield County SWCD and Buckeye Lake for Tomorrow. A Surface Water Improvement Fund (SWIF) subgrant was awarded to the Village of Buckeye Lake. SWIF funds are provided as a state match.

- Martha Spurbeck and Jo Hodanbosi received and processed 9 payment requests, 5 semi-annual technical reports, and 12 quarterly fiscal status reports.
- During March 2013, Ohio EPA once again installed the YSI water quality monitoring Sondes near the center of Buckeye Lake. These meters are collecting water quality data including dissolved oxygen, turbidity, pH, temperature, conductivity and water depth. The Sondes collect and transmit data every fifteen minutes 24/7 via cell phone to a web page administered by Yellow Springs Installation on behalf of Ohio EPA. This metering station was installed with assistance from Buckeye Lake State Park staff. Data may be retrieved and viewed at www.livelakedata.com.
- Ohio EPA central district office staff complete in lake water quality and sediment monitoring in October 2012. The assessment of data, Bathtub modeling and report preparation is well underway. We anticipate a final water quality report completed during FY2014.
- Ohio EPA modeling staff from central office completed water quality monitoring of all the tributaries leading into Buckeye Lake in December 2012. Data analysis and Bathtub modeling are well underway and we anticipate a final report in winter 2014. Meanwhile, preliminary findings include:
 - The Feeder Creek to Buckeye lake contributes a significant majority of the annual nutrient loadings to Buckeye Lake.
 - Nonpoint source and subsurface drainage related nonpoint source loads from row crop agricultural land use represent the majority of annual nutrient inputs to the lake.
 - High flow events contribute the majority of nitrogen and phosphorus loads into the lake, highlighting the importance of installing practices that help to store and/or retain runoff and drainage waters.
- Rick Wilson continues to provide technical assistance to Buckeye Lake for Tomorrow in developing and refining the draft nutrient reduction for Buckeye Lake.

Buckeye Lake for Tomorrow Progress during the Reporting Period: Buckeye Lake for Tomorrow (BLT) is a 501(c)(3) nonprofit organization committed to improving the water quality within the lake. Ohio EPA provided BLT with a section 319 subgrant in the amount of \$80,000 to coordinate public awareness and outreach activities and to develop a Buckeye Lake Nutrient Reduction Strategy. During the reporting period BLT's subgrant funded activities resulted in the completion of the following deliverables:

- Completion and submittal of the first draft of the Buckeye Lake Nutrient Reduction Strategy
- Conducted one public meeting attended by approximately 50 homeowners
- Conducted 5 workshops for lakefront homeowners and others within the watershed
- Issued three press releases, prepared, printed and distributed 3 brochures and 1 newspaper insert
- Established and is maintaining a project specific web page
- Conducted a "Get the Carp Out" Derby during June 2013. More than 5,000 pounds of carp were removed from Buckeye Lake this summer as a result of this project.
- Conducted a nutrient reduction workshop was conducted on March 1, 2013 with students from Ohio State School of Environment and Natural Resources.

- Presentations were made to Licking, Walnut and Thorn Townships; Fairfield, Licking and Perry counties; the villages of Thornville, Buckeye Lake and Millersport to raise local government awareness of progress being made with the Nutrient Reduction Project.



Under provisions of Project #Buck11-03 Lakefront homeowners and others within the watershed were eligible to acquire rain barrels at nominal costs. As a result of this project more than 145 rain barrels were installed.



Automated water quality monitoring stations in Buckeye Lake provide updated conditions every fifteen minutes 24 hours a day. Such real time data is extremely valuable in understanding changing conditions within the lake.

Fairfield County Soil and Water Conservation District Progress during the Reporting Period: The Fairfield SWCD is serving as the most direct link to the agricultural community within the Buckeye Lake watershed. They also have performed critical outreach to lakefront and watershed homeowners through their Rain Barrel Initiative that is funded through a subgrant from Ohio EPA. The primary activity and deliverable from this subgrant is the GPS mapping and characterization of more than 75 stream miles within the watershed. Deliverables and reported activities completed as of this reporting period include:

- Completed GPS mapping and watershed characterization of more than 77 stream miles within the Buckeye Lake watershed.
- Installed 146 rain barrels through a cost-share program with lakefront homeowners and other residential properties within the Buckeye Lake watershed.
- Planted 100 acres of cover crops with another 100 acres to be planted fall, 2013.
- Conducted 1 public meeting, 1 field day and 8 rain barrel workshops.

- Developed and issued 10 press releases highlighting progress under this initiative.
- Installed one project specific sign and information kiosk.

ODNR-Division of Parks & Recreation-Buckeye Lake State Park Progress Reported: Engaging Buckeye Lake State Park was a critical component to a successful effort to reduce nutrients in Buckeye Lake. This subgrant allowed ODNR to retrofit a heavily used boat launching parking area with pervious pavers and a treatment train bioswale that redirects runoff into a small wetland treatment area. Additionally, two rain gardens were constructed and installed to further demonstrate the value of such “green” stormwater management practices. This project is a cornerstone of the much larger effort to reduce nutrients flowing into Buckeye Lake. During the reporting period ODNR’s Division of Parks & Recreation completed the following deliverables:



More than 145 rain barrels like the one shown above were installed under provisions of #BUCK11-03 by the Fairfield County SWCD. Rain barrels provide an excellent opportunity for individual homeowners to participate in the Buckeye Lake Nutrient Reduction Project.

- Installed approximately 7,500 square feet of pervious pavers, a bioswale and constructed stormwater wetland to treat runoff prior to entering Buckeye Lake.
- Completed two large rain gardens and a bioswale passive treatment area to collect runoff from parking areas prior to entering the lake.



Retrofitting this heavily used boat launch area with pervious pavers and wetland treatment train was completed under provisions of #BUCK11-01.



This bioswale/rain garden captures runoff from a large heavily used parking area and diverts it to a vegetated bio-filter. This project was also completed under provisions of BUCK11-01

Village of Buckeye Lake SWIF Stormwater Demonstration Progress Reported: The most recently engaged partner in the Buckeye Lake Nutrient Reduction Project is the Village of Buckeye Lake. \$75,000 in state Surface Water Improvement grant funding has been awarded to help the village address the flow of siltation and other debris from the village-controlled locations into Buckeye Lake. This will be done by

demonstrating several green stormwater practices including pervious pavement, rainwater harvesting, rain gardens and sediment filters. During the reporting period, the village reported the following activities:

- This project only recently went to contract. Although there is little progress to report at this time we anticipate the construction components of this project to be completed by spring 2014.

Statewide SWIF Grant Management

Ohio's Surface Water Improvement Fund (SWIF) was established in 2009 and codified in the Ohio Revised Code in 2012. In two statewide grant cycles (2010 and 2012) Ohio EPA has awarded more than \$2 million in statewide SWIF funding to implement 35 local stormwater demonstration, wetland restoration and stream restoration projects. SWIF grants provide an important enhancement to Ohio's Nonpoint Source Management Program by greatly expanding the number of NPS Management projects that can be implemented as well as providing Ohio EPA considerably more flexibility in the types of projects that may be funded.



SWIF funded stormwater demonstration projects such as this rain garden at Mill Creek Metroparks provide important opportunities to show the public and local land managers the performance of green stormwater practices that can be used throughout their communities.

FY10 Statewide SWIF Grant Management

The first statewide SWIF Request for Proposals in 2010 resulted in more than 136 applications seeking funding assistance. FY10 SWIF grants funded 19 local projects, including 2 stream restoration projects, 2 wetland restorations and 15 stormwater demonstration projects. All of these projects have been completed and all but one of the subgrants closed out. During the reporting period, NPS Program staff accomplished the following:

- Received and processed 5 statewide FY10 subgrant payment requests, 2 semi-annual statistical reports, 5 quarterly financial status reports, and closed out 2 subgrants.
- During the reporting period Russ Gibson and Martha Spurbeck conducted site visits with the following subgrantees:
 - #10SWIF-SEP-01 City of Delaware
 - #10SWIF-145 Liberty Township
- Attended Liberty Township Stormwater Demonstration Park Ribbon-Cutting on 7-27-13. This project was completed under provisions of Project #09(h)EPA-27 and Surface Water Improvement Fund Project #10SWIF-145.. The project site features multiple green stormwater BMP's designed to showcase a variety of practices that can easily be replicated elsewhere. These include rain barrels, bio-retention and infiltration basins, rain gardens, pervious pavements, pervious pavers, no mow turf grass and others. The park also features a restored stream using natural channel design methods. Liberty Township is the fastest growing township in Ohio and this stormwater demonstration park will serve as an important tool for use with developers and builders wanting to work within the township.
- We anticipate closing out the last of these subgrants within the next 30 days thus closing the highly successful FY10 Surface Water Improvement Grant Cycle. As a result of these grants, the following was accomplished:
 - Installed more than 8500 square feet of vegetated bioswales
 - Installed 8565 square feet of community scale rain gardens
 - More than 46,000 square feet of pervious pavements installed
 - Installed 2300 square feet of green roof
 - 2 Rainwater harvesting systems were installed
 - More than 70 acres of wetlands were restored
 - 1615 linear feet of stream channel restored



FY12 Statewide SWIF Grant Management

The popularity and success of the statewide FY10 SWIF grants prompted Ohio EPA to implement another statewide SWIF grant cycle in FY12. The FY12 SWIF Statewide Grant Cycle resulted in the funding of 16 additional implemented projects that received a total of more than \$1 million in Statewide SWIF funding. The following table provides a status for each of the FY12 SWIF subgrantees:

Ohio Environmental Protection Agency FY12 STATE Surface Water Improvement (SWIF) Grants

Project #	Subgrant Sponsor	Type of Project	Amount	STATUS
#12SWIF-05	City of Springfield	Stormwater Demonstration	\$15,000	Complete
#12SWIF-06	Village of Boston Heights	Stormwater Demonstration	\$78,900	Delayed
#12SWIF-09	Clermont County Park District	Wetland Restoration	\$85,800	Under Construction
#12SWIF-10	City of Cuyahoga Falls	Stream Restoration	\$89,887	Under construction
#12SWIF-11	City of Greenville	Stormwater Demonstration	\$11,800	Complete
#12SWIF-12	City of Gahanna	Stormwater Demonstration	\$60,000	Complete
#12SWIF-16	City of Green	Wetlands Restoration	\$100,000	Under Construction
#12SWIF-24	Chardon Township	Stream Restoration	\$96,070	Contracted
#12SWIF-25	City of Painesville	Stormwater Demonstration	\$63,600	Delayed
#12SWIF-31	City of Willoughby Hills	Stormwater Demonstration	\$80,750	Contracted
#12SWIF-36	Hamilton County Commissioners	Stormwater Demonstration	\$72,000	Delayed
#12SWIF-37	Perkins Township	Stormwater Demonstration	\$88,480	Complete
#12SWIF-39	City of Forest Park	Stream Restoration	\$49,157	Complete
#12SWIF-42	Hamilton County Park District	Stormwater Demonstration	\$42,515	Contracted
#12SWIF-48	Village of Kirtland Hills	Stormwater Demonstration	\$50,000	Complete
#12SWIF-50	Village of Fairport Harbor	Stormwater Demonstration	\$44,200	Complete
Total			\$1,028,159	

During the reporting period, Ohio EPA’s Nonpoint Source Program Staff conducted the following activities associated with the FY12 statewide SWIF grants management and administration:

- NPS Program staff reviewed and scored 53 FY12 Statewide SWIF applications and grant agreements were prepared for each application. 17 projects were funded with subgrants totaling \$1.02 million during FY12.
- Grants Administrator Martha Spurbeck and Nonpoint Source Program Manager Russ Gibson conducted site visits and/or provided technical assistance to the following Statewide SWIF subgrantees:
 - #12SWIF-012 City of Gahanna
 - #12SWIF-015 City of Springfield
 - #12SWIF-039 City of Forest Park
 - #12SWIF-036 Hamilton County Commissioners

- Grants Administrator Martha Spurbeck and Jo Hodanbosi received and processed 57 payment requests, 15 semi-annual progress reports and 27 quarterly financial status reports. No FY12 Statewide SWIF subgrants were closed during the reporting period.
- On October 8th Russ Gibson and Martha Spurbeck conducted FY12 Statewide SWIF subgrant management training. 12 participants attended this training conducted in Ohio EPA's central office. The remaining statewide SWIF subgrantees attended this training when it was conducted in Ohio EPA's Twinsburg District office on October 16th. The October 16th training was attended by 26 people and included recipients of FY12 GLRI-SWIF grants under the Cuyahoga County SWIF program detailed later in this report.
- Ohio EPA anticipates implementing another SWIF grant cycle during FY14. A Request for Proposals will be distributed during winter, 2013. We expect that \$1.5 million will be available statewide.



This passive stormwater treatment system installed at Gahanna Woods State Nature Preserve collects stormwater runoff from nearby parking areas and “treats” it prior to allowing it to discharge to a nearby stream. This project was completed under provisions of statewide SWIF Project # 12SWIF-12.

FY12 Statewide SWIF Project Photos



Pictured above is Kelsey Creek following restoration (above left) completed by the city of Cuyahoga Falls under provisions of #12SWIF-10. Above right shows general conditions of the creek prior to completion of this project.



Pervious pavement installed at the Perkins Township administrative offices and service center under provisions of #12SWIF-37. This is one of several SWIF projects being monitored by Old Woman Creek National Estuary, Chagrin River Watershed Partners and others. (photo right)

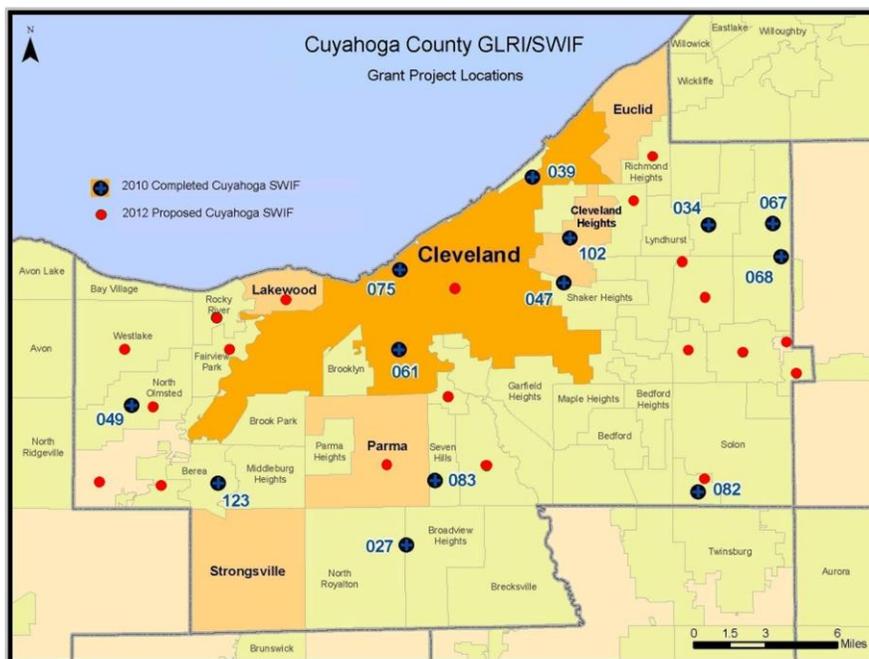


Cuyahoga County GLRI-SWIF Grants

Ohio EPA has been very fortunate to apply for and receive two Great Lakes Restoration Initiative grants from the US EPA to supplement state SWIF grant funding for stormwater and other water quality projects concentrated in Cuyahoga County, Ohio. Cuyahoga County is Ohio's most populous county with more than 1.2 million residents with an aging stormwater infrastructure and highly modified urban tributaries to Lake Erie. The Cuyahoga County GLRI-SWIF grants program provides Ohio communities and local park districts with important financial assistance for stream and wetland restoration projects as well as green infrastructure retrofits.

FY10 Cuyahoga County GLRI-SWIF Grant Management Federal Grant #GL-00E00395-0

Ohio EPA continues to monitor, manage and administer the last remaining open subgrant awarded under provisions of federal grant ID# GL-00E00935-0. All other subgrant projects awarded under this grant are complete and closed except for the last FY10 GLRI-SWIF subgrant awarded to the city of North Olmsted whose project is complete but their subgrant is not yet closed. Fact sheets for all completed subgrant-funded projects are included in later sections of this report. This project has resulted in the implementation and demonstration of multiple innovative stormwater BMP's, wetland and stream bank stabilization methods installed by the project sponsors. The project also is helping Ohio EPA to host the 20th National Nonpoint Source Monitoring Workshop in Cleveland, Ohio during late October. The resulting surge in public and leadership awareness of the value of these practices has been considerable.



Cuyahoga County FY10 and FY12 GLRI-SWIF Project Locations

During the reporting period, Ohio EPA’s NPS Program conducted the following activities associated with the FY10 Cuyahoga GLRI-SWIF grants program:

- Martha Spurbeck and Jo Hodanbosi process 5 payment requests, 3 Semi-Annual Progress Reports, 6 quarterly Financial Status Reports and closed 3 FY10 Cuyahoga County GLRI-SWIF subgrants.
- Grants administrator Martha Spurbeck, NPS Agricultural Specialist Rick Wilson and NPS Program Manager Russ Gibson conducted preliminary (and post-construction) site visits with the following subgrantees during the reporting period:
 - #10CUY-GLRI-173 City of North Olmsted
 - #10SWIF-CUY-049 City of North Olmsted
 - #10SWIF-Cuy-061 Cleveland Metroparks Zoo (post grant inspection)
 - #10SWIF-CUY-034 City of Mayfield Heights (post grant inspection)
 - #10GLRI-CUY-082 Village of Glenwillow (post grant inspection)
- Completed the 5th semi-annual progress report and distributed to US EPA Region 5. All project fact sheets have been updated, GLAS data entry completed and all subgrants but the city of North Olmsted have been close out with final reports reviewed and sent to Region 5. Following is a table that identifies the status (as of 08/16/13) of each of the FY10 GLRI-SWIF Cuyahoga County Subgrants:

FY10 CUYAHOGA COUNTY GLRI- Surface Water Improvement (SWIF) Grants

Project #	Subgrant Sponsor/Recipient	Status	Grant Amount
10GLRI-CUY-039	City of Cleveland	Complete	\$260,157
10GLRI-CUY-068	Village of Hunting Valley	Complete	\$137,500
10GLRI-CUY-123	Cuyahoga County Soil & Water District	Complete	\$147,270
10GLRI-CUY-082	Village of Glenwillow	Complete	\$63,050
10SWIF-CUY-027	City of Broadview Heights	Complete	\$219,727
10SWIF-CUY-034	City of Mayfield Heights	Complete	\$231,900
10SWIF-CUY-047	Shaker Lakes Nature Center	Complete	\$78,664
10SWIF-CUY-049	City of North Olmsted	Complete	\$196,028
10SWIF-CUY-061	Cleveland Metroparks Zoo	Complete	\$181,000
10SWIF-CUY-067	Village of Gates Mills	Complete	\$87,525
10SWIF-CUY-083	City of Seven Hills	Complete	\$265,530
10SWIF-CUY-102	City of Cleveland Heights	Complete	\$238,726
10GLRI-CUY-073	City of North Olmsted-Supplemental Project	Complete	\$161,659
TOTAL SUBGRANT AMOUNTS AWARDED			\$2,268,736



Wetlands such as this one restored in the city of Broadview Heights under provisions of #10GLRI-CUY-27 play important roles in helping to trap and passively treat stormwater runoff in heavily urbanized areas.



This rain garden at the Mayfield Heights city hall complex collects all runoff from the roof of City Hall. The project was completed under provisions of GLRI-SWIF grant project #10SWIF-CUY-034.



Stabilizing severely eroding streambanks, such as this one in the village of Hunting Valley that was completed under provisions of #10GLRI-CUY-068 is an important step that a community can take to help reduce sediment loadings to the stream.

This project has realized considerable success. Subgrantees performing under this GLRI grant successfully completed the following::

- Installed more than 23,406 square feet of vegetated bioswales
 - Installed 2,725 square feet of community scale rain gardens
 - More than 31,205 square feet of pervious pavements installed
 - 2 Rainwater harvesting systems were installed
 - More than 8 acres of wetlands were restored
 - 4,750 linear feet of stream channel restored
 - 400 linear feet of severely eroding streambank stabilized
 - 3 lowhead dam structures removed
- We anticipate that approximately 10-12 DSW staff will be attending the National NPS Monitoring Workshop. We view this workshop as both a good opportunity to learn as well as serve as ambassadors to Ohio for out of state NPS and Monitoring professionals.



The city of North Olmsted retrofitted parking areas at two city parks with vegetated bioswales and pervious pavers. This project was completed under provisions of #10SWIF-CUY-073 and demonstrates the aesthetic and water quality benefits of green stormwater BMPs.

FY12 Cuyahoga County GLRI-SWIF Grant Management Federal Grant #GL-00E01137

Expanding upon the success of the FY10 Cuyahoga County GLRI-SWIF projects, Ohio EPA applied for and received FY12 Great Lakes Restoration Initiative Grant #GL-00E01137 in the amount of \$996,902 to implement 18 local stormwater demonstration and nonpoint source management projects within Cuyahoga County, Ohio. An additional \$1.4 million in state Surface Water Improvement Funds (SWIF) were provided to increase the total project budget to nearly \$2.4 million. During the reporting period, staff from Ohio EPA's Nonpoint Source Program completed the following activities associated with the implementation, management and administration of this project:

- Martha Spurbeck and Jo Hodanbosi processed 3 payment requests, 28 Semi-Annual Progress Reports, 47 quarterly Financial Status Reports and have not yet closed any FY12 Cuyahoga County GLRI-SWIF subgrants.

FY12 CUYAHOCA COUNTY GLRI- Surface Water Improvement (SWIF) Grants

Project #	Subgrant Sponsor/Recipient	Status	Grant Amount
#12SWIF-CUY-02	City of South Euclid	Complete	\$166,015
#12SWIF-CUY-03	Orange Village	Under Construction	\$162,270
#12SWIF-CUY-07	Moreland Hills	Slightly Delayed-Fall 2013	\$144,500
#12SWIF-CUY-08	Cleveland Metroparks	Out to Bid	\$85,000
#12SWIF-CUY-09	City of Parma	Construction Fall 2013	\$149,164
#12SWIF-CUY-16	City of Lakewood	Out to Bid	\$150,000
#12SWIF-CUY-17	Olmsted Township	Design 50% Complete	\$45,807
#12SWIF-CUY-18	Village of Pepper Pike	Complete	\$84,354
#12SWIF-CUY-19	City of Independence	Design 60% Complete	\$72,850
#12SWIF-CUY-20	Village of Brooklyn Heights	Design 85% Complete	\$84,300
#12SWIF-CUY-22	City of Westlake	Out to Bid	\$200,000
#12SWIF-CUY-23	Village of Chagrin Falls	Delayed-Spring 2014	\$73,000
#12SGLRI-CUY-06	Ursulines College	Under Design	\$100,810
#12SGLRI-CUY-10	City of Euclid	Delayed-Spring 2014	\$122,000
#12SGLRI-CUY-11	Village of Glenwillow	Glenwillow	\$53,358
#12SGLRI-CUY-12	City of Cleveland	Delayed	\$180,843
#12SGLRI-CUY-14	City of Rocky River	Delayed-Had to Rebid	\$170,354
#12SGLRI-CUY-21	City of Richmond Heights	Delayed	\$187,500
TOTAL SUBGRANT AMOUNTS AWARDED			\$2,232,125

- NPS Program staff conducted site visits with the following FY12 Cuyahoga County GLRI-SWIF subgrantees: #12SWIF-CUY-22 City of Westlake; #12GLRI-CUY-11 Village of Glenwillow; #12GLRI-CUY-02 City of South Euclid; and the #12GLRI-CUY-18 City of Pepper Pike.

FY12 Cuyahoga GLRI-SWIF Project Photos



Pervious pavers and passive treatment and infiltration comprise the city of Pepper Pike's FY12 SWIF-GLRI project.



A key component of Pepper Pike's #12SWIF-CUY-18 GLRI-SWIF project is comprehensive monitoring (above) to verify the water quality benefits of this project.



Project #12GLRI-CUY-11 in the Village of Glenwillow (ABOVE) is demonstrating the benefits of pervious pavement in their city service area. #12SWIF-CUY-02 in South Euclid (BELOW) is demonstrating pervious pavers at city hall.



Lucas County GLRI-SWIF Stormwater Grants

Ohio EPA has been very fortunate to apply for and receive an FY12 Great Lakes Restoration Initiative grant from the US EPA to help fund stormwater demonstration project within Lucas County, Ohio. Lucas county is home to more than 400,000 Ohioans and the city of Toledo which is Ohio's 4th most populous city with more than 287,000 residents. Like many of Ohio's older communities Toledo and the 10 other cities and villages within the county suffer from aging and/or inadequate stormwater infrastructure and highly modified urban tributaries to Lake Erie. The Lucas County GLRI-SWIF grants program provides important financial assistance to retrofit gray stormwater infrastructure with green stormwater practices.

FY12 Lucas County GLRI-SWIF Grant Management Federal Grant #GL-00E01132 State Grant ID# LUCA12

Ohio EPA received FY12 GLRI grant number #G-00E01132 on 10512 in the amount of \$749,839 for the purpose of designing and implementing 9 green stormwater management demonstration projects within Lucas County, Ohio. Listed below is a summary of accomplishments during the reporting period:

- NPS Program staff successfully prepared and executed 9 subgrant agreements, deliverable worksheets and budgets for all recommended FY12 GLRI-SWIF Lucas County subgrantees. All subgrants have been awarded with a start date of 10-01-12. Two subgrant applicants (Monclova Township and the village of Holland) have elected to withdraw from further funding consideration. One subgrantee (Lucas SWCD) terminated their grant.



Ohio's fourth largest city, Toledo is the county seat to Lucas County

- In response to the availability of funds resulting from the withdrawal of 2 subgrantees and early termination of the Lucas County SWCD's grant, Ohio's NPS Program staff prepared and distributed a supplemental Request for Proposals (RFP) seeking additional projects in the Lucas County area. The RFP was issued on 01/12/13 with applications due 2/28/13. Due to a poor response, an additional RFP was released and 5 applications received and processed by NPS Program Staff. As a result of this supplemental RFP Ohio EPA was able to increase the number of projects funded under this grant from 9 to 12 projects. The following table identifies all subgrants awarded under the FY12 Lucas County GLRI-SWIF Stormwater Demonstration Project:

2012 Lucas County Stormwater Demonstration Project Subgrants Selected for GLRI-SWIF Funding
Current as of August 31, 2013

Project Number	Project Sponsor	GLRI- SWIF Amount Awarded
#12GLRI-LUCA-02	Maumee Bay State Park	\$10,300
#12GLRI-LUCA-04	Village of Whitehouse	\$114,303
#12GLRI-LUCA-05	Lucas County Engineer	\$41,300
#12GLRI-LUCA-06	City of Oregon	\$110,147
#12GLRI-LUCA-08	University of Toledo	\$35,992
#12GLRI-LUCA-10	Metroparks of Toledo Area	\$91,375
#12LUCA-03	Toledo Public Utilities Department	\$142,000
#12LUCA-12	City of Toledo-Environmental Svcs.	\$8,000
#12GLRI-LUCA-21s	University of Toledo	\$50,000
#12GLRI-LUCA-22S	Lucas County Engineer	\$40,600
#12GLRI-LUCA-23S	Boy Scouts of America	\$48,800
#12GLRI-LUCA-24S	Toledo Botanical Garden	\$48,675
TOTALS		\$741,492

- Ohio EPA NPS program staff successfully prepared and executed 4 supplemental subgrant agreements, deliverable worksheets and budgets for all recommended FY12 GLRI-SWIF subgrantees. The total number of subgrant projects that are funded under this grant is now 12 projects that total more than \$741,000.
- Ohio EPA NPS grant staff processed 3 Semi-Annual Technical Reports and 8 Fiscal Status Reports from Lucas GLRI-SWIF Stormwater Demonstration Project subgrantees during the reporting period.

- All Lucas County GLRI-SWIF subgrant data was entered into and/or updated in the GLAS federal database on 07/10/13. These updates were completed by Ohio EPA Nonpoint Source Program Staff
- Preliminary Load reduction *estimates* were calculated by Rick Wilson of Ohio EPA for all Lucas County Stormwater Demonstration Projects. **GLAS does not include a place to enter load reductions.** We are tracking this information separately and will report the final load reductions for each subgrant project as these projects are completed.
- **Progress Reporting/Updates from grant funded subgrant Projects:** FY12 Lucas County GLRI-SWIF subgrants all started with effective dates of January 1, 2013. Progress reports from these subgrantees are not due until 07/31/13.
 - As of 7/29/13 we had received reports from the city of Toledo that their project #12LUCA-03 is scheduled for construction in August 2013 with completion in September 2013.
 - The city of Toledo's second project funded under #12LUCA-12 is nearing completion. This project is installing a community scale rain garden to demonstrate the effectiveness of such BMP's in managing localized stormwater runoff.
 - We also anticipate that project #12GLRI-Luca-04 in the Village of Whitehouse is moving to construction in August 2013 and should be completed by 09/01/2013.
- One July 31st, Russ Gibson completed the 2nd Semi-Annual Technical Report for the Lucas County GLRI-SWIF grant. Most of the subgrant funded projects are scheduled to complete construction Fall 2013. Ohio experienced frequent rainfall this spring and summer – project completion has been delayed until next spring in some communities.
- Due to the late award of this grant and heavy rains, site visits (like several projects) are also delayed. We will be completing our visit to these sites during the fall of 2013 and spring 2014 as local projects get finished up.



Innovative stormwater practices such as this green roof on the Toledo School for the Arts are important tools for reducing the rate and amount of stormwater flow from urban areas. This project was completed under provisions of Project #11(h)EPA-12.

Other Ohio EPA GLRI Grants

Ohio EPA's Nonpoint Source Program was fortunate to receive additional Great Lakes Restoration Initiative Grants (GLRI) to help advance nutrient reduction efforts in the Lake Erie Watershed. These grants were awarded to implement the following projects:

- #GL-00E00836 – FY11 Lake Erie Nutrient Reduction Demonstration Project
- #GL-00E01131—Powell Creek Nutrient Reduction Project
- #GL-00E01020—Upper Blanchard Phosphorus Reduction Project

In each case, these projects are being implemented by multiple parties locally with oversight and grant administrative services being conducted by Ohio EPA's NPS Program staff. These projects also focus on implementing a wide array of practices and actions designed to address the widest spectrum of NPS pollutant sources in the most practicable and cost-effective way. For example, each of these projects has a very strong agricultural component; however they also include actions to address failing home septic systems, eroding streambanks and other management actions. Each project also represents a partnership with important local implementers such as the county Soil & Water Conservation Districts, local Health Departments, County park districts and others. These projects also were selected based upon the existence of an approved Total Maximum Daily Load Study and/or a state endorsed 9-element watershed action plan.

FY11 Lake Erie Nutrient Reduction Demonstration Project **Federal Grant #GL-00E00836-0** **State Grant ID# NUTR11**

The Lake Erie Nutrient Reduction Demonstration Project is an innovative test of nutrient reduction practices and cost share program delivery for the agricultural community in a small, highly targeted HUC-12 subwatershed. Additionally, Ohio State Extension is performing social indicator survey work to measure changes in attitudes and target audience behaviors, public education and outreach is being conducted by the Sandusky Watershed Coalition and innovative stormwater management practices are being demonstrated at Crawford County Park District. Pre and post project environmental monitoring is being completed by Ohio EPA's Northwest District Office and Ecological Assessment Unit (EAU) staff. In a true sense of partnership, this project engages a wide array of persons and practices concentrating on reducing nutrient loadings to Loss Creek, a small tributary to the Sandusky River which is a significant contributor of nutrients to Lake Erie.

Loss Creek as it flows through Crawford County to join the Sandusky River. Small headwater streams such as this one that flows through areas where agriculture is the most concentrated land use are where nutrient reduction measures in Ohio must begin. This project is designed to demonstrate innovative ways to work with agriculture in meeting nutrient reduction goals.



This project involves four subgrants to local organizations to assist with implementation. These participants and their individual subgrant projects are listed below:

#NUTR11-GLRI-01	Crawford County Soil & Water Conservation District
#NUTR11-GLRI-02	Sandusky River Watershed Coalition-WSOS, CAO, Inc.
#NUTR11-GLRI-03	Ohio State University Extension
#NUTR11-GLRI-04	Crawford County Parks District

Ohio EPA's Nonpoint Source Program is providing grant administration, technical assistance and overall facilitation and coordination of the Lake Erie Nutrient Reduction Demonstration Project. During the reporting period, the following activities were completed by the collaborating partners on this project:

- Ohio EPA's NPS Program Manager completed and submitted the third and fourth semi-annual progress reports to the US EPA Region 5 Project Manager. Both reports were submitted timely and contained comprehensive summaries of progress being made under this project.
- Grants Administrator Martha Spurbeck and NPS Administrative Assistant received and processed 11 payment requests, 7 Semi-annual progress reports and 14 Financial Status Reports.
- Ohio EPA NPS Program staff conducted site visits to review progress with the following subgrantees under this project:
 - NUTR11- 04 Crawford County Parks District
 - NUTR11-GLRI-01 Crawford County Soil & Water Conservation District
 - NUTR11-GLRI-02 WSOS-Sandusky River Watershed Coalition

- NUTR11-GLRI-03 Ohio State University Extension
- **Progress Reported to date by Crawford County Parks District:** Project deliverables completed by Crawford County Parks District during the reporting period include:
 - 375 square feet of demonstration rain garden at the Nature Center in Lowe Park
 - Installed 1250 square feet of permeable pavers in the nature center parking area
 - Installed 2 rain barrels
 - Issued one press release
 - Developed a project specific web-page. For information please visit: www.crawfordparkdistrict.org.



Highly visible green stormwater best management practices such as permeable pavers and rain gardens at the Crawford County Parks Nature Center will help expand the public’s awareness about managing stormwater more effectively.

- **Progress Reported by the Sandusky Watershed Coalition:** Under subgrant agreement with Ohio EPA, the Sandusky Watershed Coalition is conducting public education, outreach and awareness activities for the Lake Erie Nutrient Reduction Demonstration Project. During the reporting period the following activities and deliverables were completed:
 - Updated and managed the Loss Creek Project mailing list
 - Assisted Ohio State University Extension by arranging site for Focus Group interviews
 - Providing feedback and input to Ohio State University Extension on interview questions
 - Designed project signage to be placed at each farm participating in the Lake Erie Nutrient Reduction Demonstration Project to recognize their participation.
- **Progress Reported by Ohio State University Extension:** The primary role of Ohio State Extension in this project is to conduct pre and post- project social indicator surveys of all agricultural producers within the project area. These surveys are designed to provide a measure of progress based upon an evaluation of changes in farmer’s attitudes during the project period. Project deliverables completed by Ohio State University Extension during the reporting period include:

- Phone calls were made to all farmers in the project area and a follow up letter was sent as a follow up invitation to participate in one of three focus groups for the project.
 - Following this outreach, it was determined that there was insufficient interest in holding winter focus group meetings. However, there appeared to be sufficient interest in conducting a phone survey. These were scheduled for August 2013. At the time of preparation of this report, it was not known whether these phone interviews occurred as planned.
 - Data from returned farm surveys was entered into the Social Indicators Data Management and Analysis (SIDMA) System. Preliminary analysis of pre-surveys was completed and a written report summarizing the findings was also prepared.
 - Project meetings were conducted with project team members in January, May and June 2013 to discuss pre-survey data and preliminary implications for programming and other logistics.
- **Progress Reported by Crawford County Soil & Water Conservation District:** Crawford County SWCD is the prime implementer of the Lake Erie Nutrient Reduction Project. Their direct involvement with farmers in the watershed is critical to successful implementation of best management practices (BMPs) that will directly result in a reduction of nutrients entering Loss Creek and ultimately the Sandusky River and Lake Erie. During the reporting period the following deliverables and activities were completed by Crawford SWCD:
 - 9 farms have been signed up for drainage water management practices covering 347 acres. To date, 3 units have installed managing tile drain water on 93 acres.
 - More than 451 acres of cover crops were planted by 7 different farms
 - Conservation tillage was added to 90 acres as a result of this project
 - 13 whole farm conservation plans covering more than 1029 acres have been completed
 - Residue management implemented on 57 acres
 - 3 tile control structures were installed
 - Conducted a cover crop field day that was attended by more than 70 people.
 - 13 new applications are currently pending
 - This project was delayed by the late grant award which resulted in a loss to the 2011 growing season hampering practices such as cover crops. Progress during the spring, summer, fall of 2012 and again in spring of 2013 was substantial. A back injury to the primary implementer delayed progress during the summer of 2013. Currently, subgrantee deliverables are on schedule.
 - All Ohio EPA deliverables are on schedule.



Cover Crop seminar provided to Loss Creek farmers as part of this project.



Alex Schusler from US EPA and Rick Wilson, from Ohio EPA go over GLRI grant project details.

Lake Erie Nutrient Reduction Demonstration Project Photos



Controlled Drainage practice installed in this field in Crawford County. This practice is an important tool for farmers trying to reduce



Ohio EPA staff from the northwest District Office shown here collecting water samples as part of the baseline monitoring of Loss Creek. Baseline was complete during summer 2011.

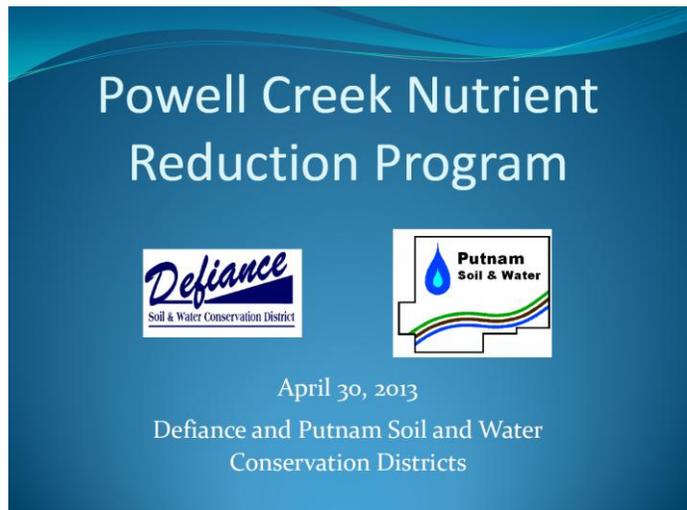
FY12 Powell Creek Nutrient Reduction Project

Federal Grant #GL-00E01131

State Grant ID# POWL12

The Powell Creek Nutrient Reduction Project is a collaborative effort by Ohio EPA, Defiance County SWCD and the Defiance County Health Department to address nutrients in a highly focused way. Conservation practices identified in the approved Powell Creek Total Maximum Daily Load Study (TMDL) will be implemented in an accelerated and concentrated fashion. Powell Creek is HUC-12 subwatershed of the Maumee River. In recent studies by the International Joint Commission (IJC) and others, the Maumee has been identified as contributing disproportionately large amounts of dissolved reactive phosphorus currently plaguing Lake Erie.

The Powell Creek Nutrient Reduction Project provides cost share assistance to agricultural producers within the watershed as a result of a \$365,650 subgrant awarded to the Defiance County Soil and Water Conservation District. The Defiance County Health Department, under provisions of a \$95,000 subgrant awarded by Ohio EPA will inspect at least 20 home sewage treatment systems within the Powell Creek watershed. At least 10 failing HSTS units will be replaced using cost share provided in the subgrant. Both subgrants are funded with federal Great Lakes Restoration Initiative Grant funds awarded to Ohio EPA by the US EPA Great Lakes National Program Office. All project environmental and water quality monitoring is being provided at no cost to the grant by Ohio EPA's Ecological Assessment Unit (EAU).



Progress reported to date by Ohio EPA:

- Russ Gibson and Rick Wilson met with representatives of the Defiance Health Department on 4-2-13 to discuss the home sewage treatment replacement component of this project and the role and support for the Health Department. We also answered questions about the grant process.
- Ohio EPA NPS Program staff reviewed and processed subgrant work plans that were submitted by the Defiance County Soil and Water Conservation District and the Defiance County Health Department. Prepared and fully executed subgrant agreements including project budgets, deliverables and final approved work plans.
- Martha Spurbeck, NPS Grants Administrator reviewed and processed 3 quarterly fiscal reports and one semi-annual technical report.
- Ohio EPA's Ecological Assessment Unit (EAU) in conjunction with Ohio EPA's Northwest District Office water quality staff have completed a study and monitoring plan for the Powell Creek Nutrient Reduction Project. Baseline monitoring for this project is currently underway, being conducted by members of Ohio EPA's Modeling and Assessment Unit and EAU. All monitoring is being conducted at

no cost to the grant and in accordance with Ohio EPA's Standard Sampling Methods Document which includes of Ohio's approved standard operating procedures.

- During the reporting period, Russ Gibson and Rick Wilson conducted initial site visits with the following subgrantees implementing the Powell Creek Nutrient Reduction Program:
 - Defiance County Soil & Water Conservation District
 - Defiance County General Health District
- Delays in getting started resulting from the late grant award and changes in personnel at the local SWCD are behind us now—there has been substantial activity and progress reported in recent months.
- **Progress Reported to date by Defiance County SWCD:** The primary local implementer/project manager is the Defiance County SWCD. Using \$365,650 in GLRI funding awarded by Ohio EPA, Defiance County SWCD in collaboration with Putnam County SWCD is working directly with agricultural producers in the watershed to plan, implement and install conservation practices. Some of these practices include cover crops, wetlands, drainage water management structures and miscellaneous nutrient reduction BMPs as identified during comprehensive farm planning activities. These activities are being implemented in harmony with a controlled drainage cost-share project that is being implemented in surrounding counties that is funded by the Ohio Department of Natural Resources. During the reporting period, the following activities and deliverables were completed by Defiance County SWCD:
 - Producers in the project area are contracted to plant 1,800 acres of cover crops in 2013
 - Putnam County SWCD has landowners interested in enrolling 2,937 acres in cover crops
 - Watershed meeting for landowners resulted in 90 participants
 - 38 tile-control structures contracted—7 have been installed covering 128 acres
 - 2 agricultural drainage wetlands are currently under design
- **Progress Reported to date by Defiance County Health Department:** The Defiance Health Department has a limited but critical implementation role in this project. In June, 2013 a subgrant in the amount of \$95,000 was awarded to the Defiance County General Health District to inspect 20 home sewage treatment systems and to repair or replace 10 failing units in the Powell Creek watershed. These activities are focused in critical areas identified in the Powell Creek TMDL. This project only very recently started.

FY12 Upper Blanchard Nutrient Reduction Project

Federal Grant #GL-00E01020-0

State Grant ID# EPAFBLAN12

The Upper Blanchard Watershed Nutrient Reduction Project is a collaborative partnership among Ohio EPA, the Hancock County Soil and Water Conservation District, Hancock County Health Department, the Hancock County Park District and the city of Findlay. The Initiative is designed to demonstrate the effectiveness of targeting agricultural nutrient reduction (and other) practices at a highly focused and more manageable scale. Specifically this project's objectives are designed to achieve the following:

- Installing agricultural BMPs that reduce sediment, nutrient and manure pollution
- Replacing 10 failing home sewage treatment systems within critical areas in the project area
- Implementing stream and/or riparian restoration projects to improve water quality
- Conducting educational and outreach to improve public awareness of Blanchard water quality

Progress reported to date by Ohio EPA: Ohio EPA's NPS Program is responsible for coordinating the following activities under this Blanchard Nutrient Reduction Project:

- Overall subgrant funded project management and oversight
- Subgrants management and Grant administration
- Monitoring and assessment activities

During this reporting period, Ohio EPA-NPS Program staff has completed the following activities:

- Completed and submitted the first and second semi-annual progress reports to US EPA-Region 5.
- Ohio EPA received the master grant agreement and Administrative Conditions for this grant in the amount of \$631,572 on 10/10/12. The late award of this grant resulted in delays executing subgrant agreements. During the reporting period subgrant agreements have been signed with Hancock County SWCD and the Hancock County Health Department.
- Russ Gibson and Rick Wilson met with representatives of the Hancock County Parks District on 05/02/13 to discuss this project and the opportunities that it presents. We also answered questions about the subgrant application and grants administration requirements. Although we received verbal commitment from the parks staff to move forward, we are still waiting to see a proposal, despite following up twice with park staff.
- We received a proposal from the city of Findlay to restore approximately 1.5 acres of riparian forest in conjunction with the Hancock County Park District. Rick Wilson reviewed the proposal and provided comments for revision. We have concerns with providing grant money to restore a site that is currently under maintenance. It has come to our attention that the Hancock County Commissioners are currently considering an assessment to perform "clean-out" more than 80 miles of the Blanchard River. We are reluctant to fund stream channel and/or riparian restoration work within the Blanchard until we can be assured that project sites are protected from "clean out" activities conducted by the Hancock County Commissioners.
- Martha Spurbeck received and processed 2 payment requests, 4 quarterly fiscal reports and 2 semi-annual progress reports from subgrantees under this grant.

- Hancock County Health Department submitted their final application on 3/18/13. Ohio EPA staff reviewed subgrant work plan from the Health Department and prepared and executed their subgrant agreement. Start date for the Hancock County Health Department's subgrant is May 1, 2013.
- Ohio EPA's Ecological Assessment Unit (EAU) completed the monitoring study plan for the Lye Creek subwatershed on April 10, 2013. Baseline monitoring was completed in 2012 in anticipation of receiving this grant. Monitoring activities are being provided by Ohio EPA at no cost to the grant. No federal funds are being used for monitoring activities.

Progress reported to date by the Hancock County Health Department

- Developed and distributed project fact sheet, press release and newsletter highlighting availability and eligibility for HD's component of this project.
- Conducted one public informational meeting
- Created project specific website: www.blanchardriver.org/lye-creek-home-septic-treatment-system-grant highlighting the home septic component of this overall project.

Progress reported to date by the Hancock County Soil & Water Conservation District

- Issued two project specific press releases informing farmers in the project area of the project and practices that are available for cost-share.
- Conducted informational meeting on 2/28/13 which was attended by 31 potentially participating farmers.
- Participated in three local radio programs and Jean Deer was also filmed for a project specific segment on WLIO in Lima, Ohio.
- Approximately 50 people participated in a Lye Creek open house at the Hancock County SWCD offices.
- Implemented conservation tillage on 22 acres. Repaired two tile main blowouts and have 9 signed contracts for agricultural BMPs to be installed this fall. Subgrantee believes that there are 20 additional landowners who will be executing cost-share agreements following this fall's harvest.
- Under subcontract to Hancock County SWCD, the Blanchard River Partnership has completed a project webpage and initiated work on education and outreach printed materials specific to the project.

National Water Quality Initiative – Ohio EPA Collaboration with Ohio NRCS

The National Water Quality Initiative is a collaboration between the Natural Resources Conservation Service (NRCS) and U.S. EPA to work with farmers in Ohio to improve water quality where this is a critical concern. The goal is to focus financial assistance into selected watersheds (at 12 digit HUC scale) to help farmers implement conservation systems to reduce nitrogen, phosphorous, sediment and pathogen losses into surface waters from agricultural land. This is the second year of the initiative. Ohio EPA was not involved in this initiative in 2012. However, this year Ohio EPA stepped up to meet the expectations of EPA-Headquarters to collaborate with State NRCS offices, advise NRCS in watershed selection, and provide water quality monitoring assistance.



Ohio EPA's Nonpoint Source Program is coordinating NWQI activities closely with Crawford County SWCD and NRCS personnel as well as NRCS central office staff. Participation in the Brandywine-Broken Sword Creek watershed continues to be increasing due in part to working closely with the SWCD and NRCS.

Ohio EPA's \$319 program is working closely with staff of Ohio's NRCS office. We also met with Ohio-NRCS on several occasions to provide advice where we thought on-farm conservation investments may best be promoted and delivered so that the greatest benefit to water quality can be achieved.

The selected FY2013 Ohio NWQI watersheds are as follows:

- Brandywine Creek – Broken Sword Creek (041000110301)–*Ohio EPA recommended**
- East Branch South Fork Sugar Creek (050400011002)
- Five mile Creek-East Fork Little Miami River (050902021102)

With a goal of implementing as many management practices with the available funding, our goal is to document any improvements in water quality resulting from the NWQI. Some concerns relating to documenting project results/success include: NWQI funding limitations in each watershed; possibility that participating acres in this initiative are miniscule compared to agricultural acres in the watershed; and other *water quantity* related work (e.g., including ditch maintenance, drainage tile installation, riparian corridor removal) that is occurring which could make it difficult to demonstrate water quality improvements.

Background on Ohio EPA's NWQI Priority Watershed

The Brandywine Creek-Broken Sword Creek watershed lies within the Sandusky River basin, a direct tributary to the western basin of Lake Erie, and encompasses the headwaters of Broken Sword Creek downstream to and including Brandywine Creek. It is located in north central Ohio in Crawford County and is comprised of approximately 35,392 acres (55 mi²) - of which 82.6% is in agricultural row crop production. Other land uses within the watershed include developed land (6.2%), forest (8.1%) and grass/pasture (2.5%) (Source: National Land Data Set, 2001). The entire watershed is located within the Eastern Corn Belt Plains (ECBP) ecoregion and there are no permitted point source dischargers present.

The current aquatic life use designation of Broken Sword Creek and its primary tributaries in this HUC12, Brandywine Creek and Red Run, is Warmwater Habitat (WWH). Based on sampling in 2001, portions of Broken Sword Creek and Brandywine Creek were recommended for the Modified Warmwater Habitat (MWH) use due to extensive channel modifications; the headwaters of Brandywine Creek and Red Run were recommended for the Limited Resource Water (LRW) designation. Based on the 2001 sampling survey results, principal causes of impairment in the Brandywine Creek-Broken Sword Creek watershed were identified as nutrients, direct habitat alterations, flow alterations, and excessive sedimentation/siltation. Primary impairment sources identified were non-irrigated crop production, channelization, flow regulation/modification, and spills.

OEPA NWQI Monitoring effort:

Ohio EPA's Division of Surface Water is monitoring water quality in the Brandywine/Broken Sword Creek subwatersheds. This watershed(s) was recommended by Ohio EPA's NPS staff and ultimately selected by USDA-NRCS. As a result of this selection, Ohio EPA committed the necessary resources to conduct comprehensive water quality monitoring and ecological assessment on Brandywine/Broken Sword Creeks. The ***"Study Plan for the Brandywine Creek-Broken Sword Creek (Sandusky River) NWQI Study Area"*** was completed during April 2013. The Plan is currently being implemented by Ohio EPA modeling and ecological assessment staff. The monitoring study includes chemical, physical, and biological sampling in the Brandywine Creek-Broken Sword Creek watershed (HUC12- 04100011 01 03) to assess and characterize baseline water quality conditions prior to full implementation of NWQI on-farm conservation investments.



Ohio EPA and Ohio NRSC staff discusses possible monitoring sites for the Brandywine/ Broken sword NWQI priority watershed.

Specific objectives of this study are to:

- Establish the present biological conditions in the Brandywine Creek-Broken Sword Creek watershed by evaluating fish and macroinvertebrate communities;
- Identify the relative concentrations and loadings of nutrients and other selected parameters in surface water;
- Assess physical habitat influences on stream biotic integrity;

- Determine beneficial use attainment status and recommend changes if appropriate; and to confirm or revise causes and sources of beneficial use impairment as determined by earlier studies.

Progress Reported to date by Ohio NRCS

Given the abbreviated timeline for participant sign-ups once again during FY13, participation in Ohio NWQI watersheds is substantially improved over the efforts from 2012. A total of three (3) HUC-12 watersheds were again selected during 2013. The East Branch-South Fork of the Sugar Creek (050400011002) participated during FY12—the two other watersheds selected in FY13 are first time participants. Poor performance in the two of the three previously selected watersheds resulted in reconsideration and selection of different watersheds for NWQI. Participation in the FY13 selected watershed thus far validates the reconsideration. For example, in FY12 there were only 8 contracts executed with participating farmers. One of the three watersheds had no participants; a second only had one participating farmer. FY13 has seen a total of 19 applications with total requests exceeding the \$350,000 that was initially allocated to Ohio’s NWQI. Total allocations were increased to meet the requests totaling \$524,718.

Ohio NRCS reports that Crawford County SWCD and the local NRCS field office have successfully signed contracts with 8 participating farmers under the NWQI to install the following practices in the Brandywine/Broken Sword subwatershed:

041000110301 – Crawford County – 8 applications - \$185,508.00

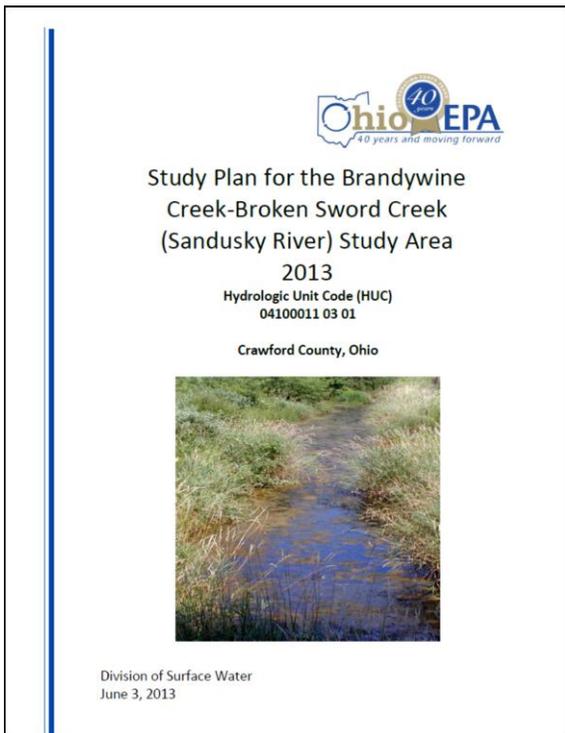
- Cover Crop
- Residue Management – No Till/Strip Till
- Grassed Waterway
- Grade Stabilization Structure
- Prescribed Grazing
- Fencing
- Drainage Water Management
- Structure for Water Control
- Conservation Cover

050400011002 - Tuscarawas County – 5 applications - \$227,295.47: A specific breakdown of the types of practices and number of contracts from the Sugar Creek Watershed is not available at this time.

050902021102 – Clermont/Brown County – 6 applications - \$111,915.00: A specific breakdown of the types of practices and number of contracts executed from the Sugar Creek Watershed is not available at this time.

Progress Reported to date by Ohio EPA

- On December 13th Russ Gibson, Rick Wilson and Cathy Alexander of DSW hosted a meeting with USDA-NRCS personnel and Greg Nageotte of ODNR’s Division of Soil & Water Resources to discuss the disappointing results from Ohio’s FY12 **NWQI** watersheds. NRCS has been working more closely with Ohio EPA on selecting and reporting on the NWQI initiative. For FY13 Ohio EPA recommended working with Crawford County SWCD in the Broken Sword subwatershed. Results thus far are considerably improved from last year’s NWQI levels of landowner participation.
- Ohio EPA’s Ecological Assessment Unit (EAU) in collaboration with our Northwest District Office water quality staff completed “*Study Plan for the Brandywine-Brokenword Creek Watershed*” in June, 2013. Baseline monitoring was completed in the watershed during the 2013 monitoring season (May-October).
- On February 19th NPS program staff met with Ohio NRCS NWQI coordinators, Crawford County SWCD and the Crawford County NRCS technician to discuss their participation in the 2013 NWQI and to help identify potential NWQI watersheds in Crawford County.
- On June 13th Ohio EPA met with staff from the Ohio office of the USDA-NRCS to receive an update on NWQI progress in the Brandywine-Brokenword Creek project and to discuss criteria for potentially adding new NWQI watersheds in 2014.



Evaluating the effectiveness of Ohio’s participation in the National Water Quality Initiative provides an excellent opportunity to better understand the effectiveness agricultural best management practices. Ohio EPA staff (above) will evaluate habitat conditions, macroinvertebrates and fish. Northwest District Office water quality staff will conduct chemical monitoring.

Ohio's Nutrient Reduction Strategy

The Ohio Nutrient Reduction Strategy is a compilation of current local and statewide efforts to reduce nutrients in Ohio's surface waterways. This strategy is an outgrowth of Ohio's participation on the Mississippi River/Gulf of Mexico Watershed Hypoxia Task Force and was crafted in response to requests from US EPA-Region 5 to produce a statewide nutrient reduction strategy. Ohio's Hypoxia Task Force member, Dan Dudley took the lead in coordinating the production of the draft Nutrient Reduction Strategy (NRS). Others in the agency, including Russ Gibson, NPS Manager and Rick Wilson, Agricultural NPS Specialist provided significant input on the nonpoint source section of the strategy. Point source and stormwater program personnel within Ohio EPA also provided substantial input into the draft strategy. There was also a strong public participation component to the development of Ohio's draft Nutrient Reduction Strategy with members of various interested parties engaged in workgroups and other activities that preceded the strategy being drafted.

The Ohio EPA, in collaboration with the departments of Agriculture and Natural Resources drafted the nutrient reduction strategy in response to U.S. EPA's request for states to develop statewide nutrient reduction plans. The initial draft of the strategy was submitted to U.S. EPA on November 15, 2011. After making revisions to the framework in response to comments provided by U.S. EPA and significant input from Ohio stakeholders a second draft of the strategy was submitted to U.S. EPA on June 28, 2013.

Ohio's Nutrient Reduction Strategy is one of several ongoing efforts to reduce nutrient pollution in Ohio's surface waters, and especially Lake Erie. Clean water is vital to Ohio's economy and to the quality of life of all Ohioans. Present trends in nutrient pollution cannot be allowed to continue. The strategy identifies that sustained and targeted action is needed and must involve diverse sectors of Ohio's economy including: farmers, agri-business, industry, trade associations, municipal and county governments, environmental groups and the general public. Once a final strategy is in place, the critical tasks of implementing cost effective means to reduce nutrient delivery to surface waters must be undertaken. Meanwhile, Ohio EPA's Nonpoint Source Program is continuing to encourage local implementers to identify needed nutrient reduction projects within Ohio's approved Total Maximum Daily Load Studies and state-endorsed watershed action plans. Ohio EPA's NPS Program currently administers more than 120 Section 319 and surface water improvement funded projects. Many of these projects are either reducing nutrient inputs or restoring stream capacity for assimilating nutrient pollutants.



The recurrence of harmful algal blooms on Lake Erie jeopardizes a \$7 billion annual recreational economy as well as the drinking water supplies of millions of Ohioans. This photo shows a harmful algal bloom in Lake Erie during October 2011.

Ohio's Nutrient Reduction Strategy may be downloaded from the Ohio EPA website by following this link: http://epa.ohio.gov/Portals/35/wqs/ONRS_final_jun13.pdf. The strategy is laid out in ten (10)

chapters and includes several appendices. Specific topics include: Priority Setting, Watershed Priorities, Load Reduction Goals, Point Source Permitting, Nonpoint Source Nutrient Reduction Strategies, Accountability and Verification, Reporting, and Nutrient Water Quality Criteria.

The most robust chapter in the strategy focuses on nonpoint source nutrient reduction and includes a key message: ***“Today’s nutrient water quality problems won’t be solved simply by implementing more of the most commonly preferred conservation practices as in the past.”*** This section promotes highly focused projects in relatively small watersheds to demonstrate innovative methods for restoring the beneficial uses of Ohio’s surface waters by substantially reducing nutrient pollution.

Nutrients are everybody’s business in Ohio, evidenced by the large turnout for Ohio’s Visioning Reduction Workshop in November 2012. The audience was comprised of a broad mix of government, academic and business representatives eager to learn more about nutrient reduction efforts in Ohio.

Presentations such as this photo of Ohio EPA’s Jeff DeShon ... offered participants a detailed scientific based background on the nutrient problems in Ohio. Afternoon workshops provide opportunities for workshop participants to provide valuable input.



Public participation in the nutrient reduction planning process provided critical input and feedback that allowed Ohio EPA to craft a nutrient reduction strategy that considered stakeholder needs and concerns. We also crafted a strategy that addresses all substantial sources of nutrients – including point sources such as wastewater treatment plants, failing home sewage treatment systems and urban stormwater runoff. On November 14th, 2012 Ohio EPA sponsored an all-day Nutrient Reduction Visioning Workshop. This workshop was heavily attended by nearly 250 representatives of agriculture, local government, environmental groups, consulting firms, water treatment plant operators, state and federal officials.

Summary of the Nonpoint Source Section of the Draft Nutrient Standard:

Ohio’s Nutrient Reduction Strategy is designed to address all identified causes of nutrient related water quality impairment in Ohio streams. Recent years have also shown the importance of carefully monitoring and managing Ohio’s recreational lakes such as Grand Lake St. Marys, Lake Erie and others. While all sources are addressed in the strategy, there is a particularly strong emphasis on nonpoint sources of nutrients. Nonpoint source pollution accounts for nearly 75% of all water quality impairments in Ohio. Nutrients are third only behind habitat alteration and hydromodification as the highest magnitude causes

of aquatic life use attainment in Ohio's large river units. NPS Strategies clearly identified in the draft nutrient reduction strategy include:

1. Agricultural Nutrient Reduction Strategies

- Improve Upland and Cropland Management
 - Increase whole farm conservation planning
 - Reduce sediment loss and erosion
 - Develop and follow nutrient management plans
 - Implement statewide soil testing program
 - Retire marginal and highly vulnerable lands
- Improve Livestock Management
 - Improve manure management practices
 - Manage runoff from livestock production areas
 - Improve grazing practices
 - Reduce phosphorus content in animal feed
- Improve Drainage Water Management
 - Reduce the rate and amount of runoff
 - Increase the treatment of field runoff
- Enhance Riparian Areas
 - Increase riparian wetland treatment and retention areas
 - Increase riparian forested areas
 - Establish "no-plow" zones in riparian areas

Additional Measures – several additional recommendations were added to strategy following review and comment from sister state agencies and others. Following are recommendations that were added to the agricultural strategies by the Department of Natural Resources-Division of Soil & Water Resources:

- Certify and/or license all nutrient applicators
- Revitalize the SWCD cooperator program
- Investigate the establishment of fertilizer regulations (Department of Agriculture)
- Improve collection of data on fertilizer sales
- Implement the principles of 4R Nutrient Management
- Reassess the enforcement authority of the Division of Soil & Water Resources

2. Urban and Suburban Nutrient Reduction Strategies

- Improve Storm Water Management Practices
 - Increase use of LID and Green Design Stormwater Practices
 - Increase installation of practices that slow down, store or infiltrate storm water runoff
 - Control erosion from construction sites and barren ground
 - Prevent/Reduce runoff from construction sites
- Enhance leadership role to address nonpoint source nutrient problem in urban/suburban setting.

Ohio's Nonpoint Source Management Plan Update

The completion of Ohio's Nutrient Reduction Strategy (NRS) is an important accomplishment during this reporting period since it coincides with an updating of Ohio's NPS Management Plan. The Nutrient Reduction Strategy will serve as a foundation guide to Ohio's nonpoint source management efforts, since it specifies nutrient reduction actions—the third highest magnitude NPS cause of aquatic life use impairment in Ohio's rivers and streams. Ohio's previous NPS Management Plan overhaul was completed by a workgroup of the Ohio Water Resources Council (OWRC) and included multiple agency representatives and other key stakeholders. Because Ohio's current plan has provided a fundamentally sound framework for NPS Program Management, Ohio EPA is electing at this time to simply update the management plan—identifying new goals, objectives and focusing on recommendations to improve water quality and habitat conditions within Ohio's lakes, rivers and streams.

Fundamental to Ohio's Nonpoint Source Management Program is our commitment to continue to focus NPS project implementation in those watersheds throughout the state that have either completed a state endorsed watershed action plan or have had Total Maximum Daily Load Study (TMDL) completed and/or approved. Although we may also fund projects in watersheds with other comprehensive plans, nearly all of Ohio's Section 319 funding will be focused on watersheds with plans and/or TMDLs.

Following a comprehensive evaluation and analysis of our NPS programming in 2006, Ohio EPA shifted priorities from past practices of funding NPS source reduction projects almost exclusively and began to implement the following hierarchy of project priorities:

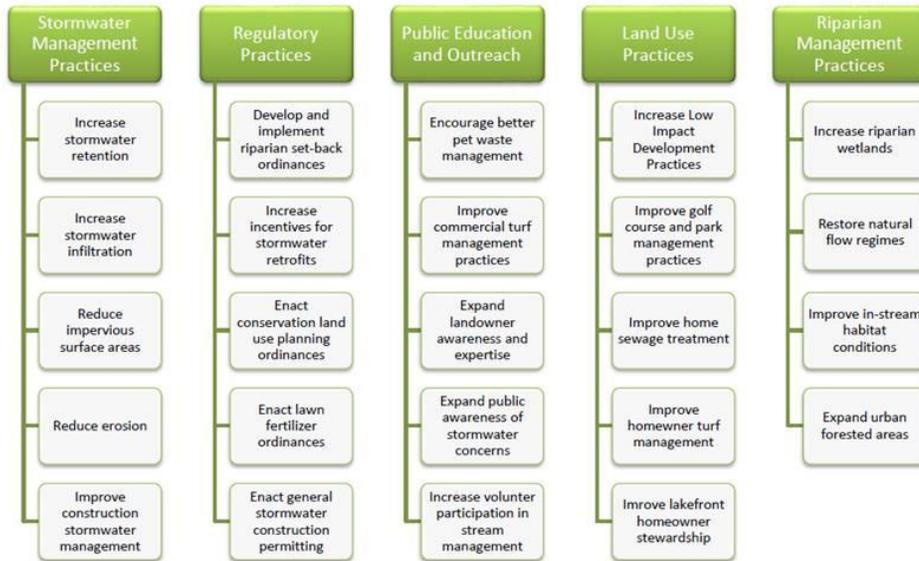
1. Projects that eliminate impairments
2. Projects that restore impaired waters
3. Projects that reduce NPS pollution
4. Projects that prevent NPS pollution

Using the guidance provided by the above priorities, Ohio's NPS Program began to fund an increasing number of locally implemented stream restoration projects such as dam removals, natural channel design stream restorations, riparian area and floodplain restorations, streambank stabilization and other physical improvements designed to eliminate impairments such as hydromodification and habitat alteration (which are the two top causes of NPS aquatic life use impairment), restore impaired waters and help to improve assimilation of NPS pollutants. As a result, program performance and results have improved dramatically over the years.

Progress Reported to date by Ohio EPA

- Ohio EPA NPS Program staff Rick Wilson and Linda Merchant-Masonbrink participated on Phase II of the Phosphorus Task Force—a workgroup that closely examined the issues contributing to elevated dissolved reactive phosphorus levels in western Lake Erie. Recommendations from the P-Task Force will be incorporated into objectives within Ohio's NPS Management Plan update.
- As a result on consultation during the development of Ohio's Draft Nutrient Reduction Strategy Russ Gibson developed a series of charts that are designed to graphically depict Ohio's strategies for eliminating nonpoint source impairments, restoring impaired waters, reducing nonpoint source pollution and protecting high quality waters. Following is an example of several of the charts:

**Ohio EPA-Division of Surface Water
Nonpoint Source Program
Strategies for Reducing Urban Nonpoint Sources of Nutrients**



- Ohio EPA NPS staff developed an NPS planning template that supports the collection of NPS action charts such as shown above. This template will help to insure that recommended implementation actions in the NPS Management Plan update are consistent with recommendations in the Nutrient Reduction Strategy and those included in TMDLs, watershed action plans and the strategies outlined in our planning charts.

Sample NPS Planning Template

1) Ohio NPS Program Goals for Reducing Agricultural and Rural Nutrients

1) Improve Upland/Cropland Management Practices

Objective 1.1.1: To facilitate completion and use of 500 whole farm conservation and nutrient management plans in Ohio's priority watersheds by 09/30/16.

Objective 1.1.2: To facilitate the installation of agricultural best management practices in Ohio's priority watersheds that result in sediment load reduction of >4000 tons annually through 09/30/16

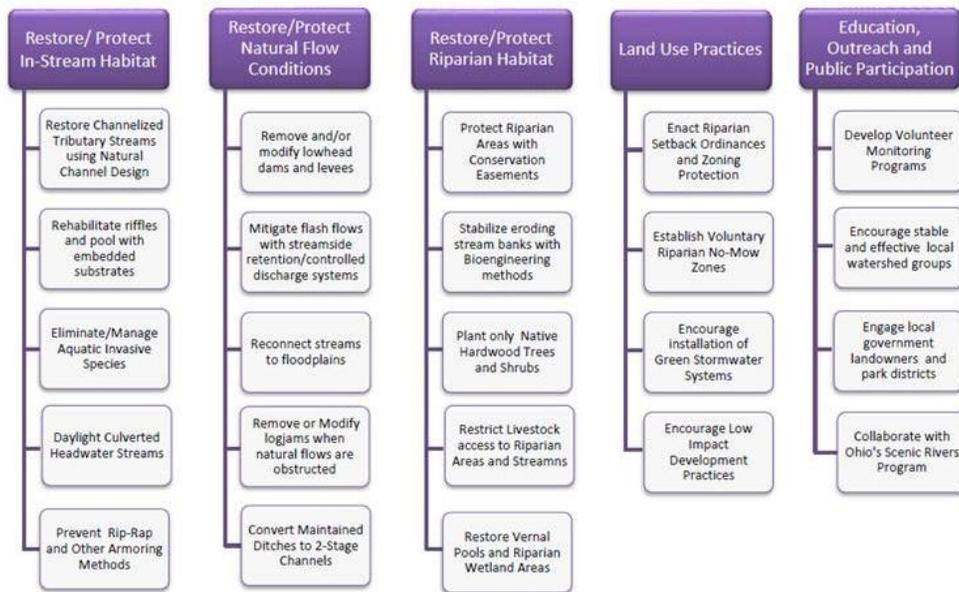
Objective 1.1.3: To participate on applicable NRCS-sponsored workgroups working to revise and update NRCS Field Office Technical Guide (FOTG) standards relating to nutrient and manure management (e.g., Nutrient Management Standard –FOTG 590)

Objective 1.1.4: Increase marginal land retirement under the Conservation Reserve Program and Conservation Reserve Enhancement Program by 10% annually through 09/30/16. Projects proposed that are within Ohio NPS Priority Watersheds (as listed in the Ohio Nutrient Strategy, June 2013) will be given highest priority.

Objective 1.1.5: To expand regulatory requirements in Ohio's NPS priority watersheds for forestry activities conducted within 1000 linear feet of a surface water body.

- Relatively new to Ohio’s NPS Program Management Plan is a clearly articulated commitment to implement projects designed to protect and/or restore high quality waters. On February 26th, 2013 Russ Gibson and Rick Wilson facilitated a strategic planning meeting with the entire staff of Ohio’s scenic rivers program. Ohio had the first scenic rivers program/law in the country—this program is currently administered by Ohio Department of Natural Resources and has 14 rivers designated as wild, scenic or recreational under Section 1517 of the Ohio Revised Code. These streams represent some of the highest quality rivers in the state. This discussion specific focused on incorporating strategies designed to protect and restore impaired areas of high quality waters into Ohio’s NPS Management Program.

Ohio EPA-Division of Surface Water
Nonpoint Source Program
Strategies for Protecting High Quality Waters



DRAFT – For Discussion Purposes ONLY

The protection of high quality streams and restoration of impaired segments of high quality streams has long been a priority of Ohio’s NPS Management Program. Incorporating specific strategies for protecting high quality waters in Ohio’s NPS Management Plan is a logical extension of the work that has long been an important part of the Ohio Nonpoint Source Program.



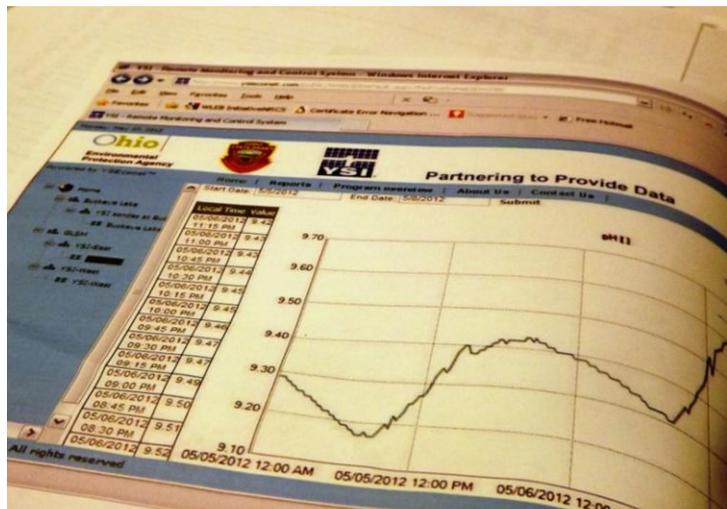
Ohio EPA is projected to have a set of updated goals, objectives and milestones for the Ohio NPS Management Plan completed and submitted to Region 5-US EPA by 12/31/13. This update will serve to help focus nonpoint source management efforts through 12/31/16. The submittal date may also be dependent upon the extent to which the updates will need to be vetted through stakeholders and other partner agencies, etc. At this point, we believe that the extensive public input and comment received during the course of preparing the Nutrient Reduction Strategy served to provide sufficient input to enable Ohio EPA to produce a practical, realistic and cost-effective set of recommended NPS actions without having to reconvene a large workgroup or engage in lengthy public notice and comment on the updated goals, objectives etc.

2013 National Nonpoint Source Monitoring Workshop

Ohio EPA in cooperation with the city of North Olmsted, Cleveland Metroparks System, Cuyahoga County SWCD, Chagrin River Watershed Partners, Tetrattech, US EPA-Region 5 and others have been working together to organize the 21st National NPS Monitoring Workshop scheduled for October 26-28th in downtown Cleveland, Ohio. This workshop brings together water quality and nonpoint source specialists from around the country to exchange information and technology and to learn about innovative nonpoint source management and monitoring activities. Ohio EPA progress during the reporting period includes:

- Russ Gibson and Tom Davenport met with Kim Wenger, Planning Director for the city of North Olmsted on 12/15/12 to determine her interest in serving as chair of the NPS Monitoring Workshop Host Committee.
- Contracted with Tetrattech Inc. (who is on state-term contract) to provide conference support, registration management, web hosting and other assistance for the 20th National NPS Monitoring Workshop scheduled for October 28th through 30th in downtown Cleveland, Ohio. This conference attracts several hundred environmental professionals from around the country.
- On 4/10/13 Russ Gibson and Rick Wilson participated in the first Host Committee meeting conducted at the city of North Olmsted's City Hall. Others participating on the Host Committee include the following:
 - Bill Zawiski and Dan Bogeveski of Ohio EPA's Northeast District Office
 - Amy Brennan from Chagrin River Watershed Partners
 - Claire Posius from Cuyahoga County SWCD
 - Jennifer Grieser and Jim Kastelic from Cleveland Metroparks
 - Kevin Kratt, Tetrattech Inc.
- Russ Gibson and Rick Wilson participated in multiple additional meetings and conference calls of the National Nonpoint Source Monitoring Workshop host committee. The Workshop will be taking place in late October at the Wyndham Hotel in the playhouse square area of downtown Cleveland. Kim Wenger, Planning Director for the city of North Olmsted is chairperson of this committee. Gibson and Wilson have participated in the following workshop related meetings and conference calls as member of the Host Committee:
 - 12/15/12 – NPS Workshop Planning Meeting at North Olmsted City Hall
 - 01/02/13 – Host Committee Meeting at North Olmsted City Hall
 - 04/02/13—National Steering Committee Conference Call
 - 04/10/13—Host Committee Meeting at North Olmsted City Hall

- 04/15/13—National Steering Committee Conference Call
 - 04/29/13—National Steering Committee Conference Call
 - 05/15/13—National Steering Committee Conference Call
 - 05/24/13—National Steering Committee Conference Call
 - 06/06/13—Host Committee Meeting at North Olmsted City Hall
 - 06/10/13—National Steering Committee Conference Call
 - 06/24/13—National Steering Committee Conference Call
 - 07/23/13—Host Committee Conference Call
 - 09/09/13—Conference Call with Tetrtech regard GLSM Presentation
 - 09/12/13—Host Committee-Tetrtech Conference Call to update on registration
 - 09/30/13—Host Committee Conference Call/Meeting
- On 4/14/13 Russ Gibson and Rick Wilson participated on the National Steering Committee which is coordinated by Steve Dressing, Elsa Cannon and Liz Hiett of Tetrtech. The Steering Committee is comprised of multiple representatives from academia, nonpoint source programs, state agencies, federal agencies and others.
 - NPS Program Staff Russ Gibson, Rick Wilson and Linda Merchant-Masonbrink all prepared, submitted and had accepted abstracts for presentations at the workshop. Following are the presentation titles that each will present:
 - Russ Gibson—*Targeting Urban BMP's in Cuyahoga County, Ohio*
 - Rick Wilson—*Rewarding Performance Based Agricultural Innovation*
 - Linda Merchant-Masonbrink—*Ohio's Inland Lakes Monitoring Program*
 - Amy Jo Klei—*Ohio EPA's Nearshore and Carter Capitan Monitoring Project*
 - Holly Tucker—*Effective Monitoring of Stream Restoration Projects*
 - Dale White— *Optimal Critical Conditions for Phosphorus TMDLs*
 - Sarah Becker—*Buckeye Lake Monitoring and Modeling Project*



Real-time water quality data such as provided by this Sondes System in Buckeye Lake is provided to Ohio EPA every 15 minutes each day. This is but one of many monitoring approaches that will be discussed at the National NPS Monitoring Workshop in October 2013. Public access to this data is available through www.livelakedata.com

Ohio Healthy Waters Initiative



Protecting healthy watersheds from degradation by nonpoint source pollutants such as nutrients or sediment is just as critical to insuring a healthy Ohio environment. Many of Ohio's highest quality streams such as the are seriously threatened by the rapid conversion of countryside to residential developments. Ohio's Healthy Waters Initiative is designed to help identify and protect existing high quality streams. It also includes provisions for restoring those areas of high quality streams in need. The photo above is on a tributary to the Kokosing State Scenic River in north-central Ohio.

Ohio's nonpoint source management program focuses most activities on restoring impaired waters and reducing the impacts of nonpoint source pollution on surface water quality. However it has long been recognized that restoring impaired waters accomplishes little if it is done at the expense of allowing high quality waters to decline. Ohio EPA continues to work ambitiously with land conservancies, nature centers and other state agencies such as ODNR's Scenic Rivers Program to help insure that high quality streams are being protected from decline.

Our healthy waters initiative dates back to 1968 when Ohio enacted the nation's first scenic rivers law. Since then 16 of the state's highest quality streams have benefitted from being designated a state wild, scenic or recreational river. Although regulatory authorities are limited, Ohio's state scenic rivers law imposes requirements on all publicly funded projects within 1,000 feet of a state designated river.

Rivers that are designated state wild, scenic or recreational under section 1517 of the Ohio Revised Code are:

- Big and Little Darby Creeks (also designated national scenic rivers)
- Olentangy River
- Kokosing River
- Mohican River
- Ashtabula River
- Chagrin River
- Conneaut Creek
- Grand River
- Little Beaver Creek
- Upper Cuyahoga River
- Maumee River
- Little Miami River (also designated national scenic river)
- Sandusky River
- Stillwater River/Greenville Creek

Additional protection of Ohio's healthy waters is achieved through the strategic allocation of several sources of funding, including setting aside more than 50% of the annual allocation from the Water Resources Restoration Sponsorship Program (WRRSP) for activities such as fee simple acquisition of high quality riparian and wetland areas. This amounts to approximately \$7.5 million annually that is awarded statewide. Ohio EPA has also awarded more than \$2.2 million in recent year section 319 grants for the acquisition of conservation easements along high quality waters. Since 2005, more than 2,600 acres of riparian lands and 55 acres of high quality wetlands have been protected in perpetuity by conservations acquired with 319 subgrant funds.



A combination of WRRSP funding, Section 319 subgrants and nearly \$1 million in local funding resulted in the removal of the 5th Avenue dam (upper left) in the Olentangy River near Ohio State University. The picture on the right shows progress restoring the river and former dam pool 12 months later. The Olentangy is a state designated scenic river in upper reaches and a high quality urban stream as it flows through the city of Columbus.

During the reporting period Ohio's Nonpoint Source Program conducted the following activities in association with Ohio EPA's Healthy Waters Initiative:

- On February 26th, Ohio EPA's Nonpoint Source Program staff met with ODNR's Scenic Rivers Program staff to discuss the Healthy Waters Initiative and to brainstorm points of potential partnership among the two programs. This was an opening conversation on what we believe may evolve into a more regular coordination between ODNR and Ohio EPA.



The Mohican State Scenic River is one of Ohio's most popular paddling streams—in addition to being a designated scenic river it is also a state designated water trail. Tens of thousands Ohioans enjoy these waters each year. The environmental and economic value of keeping this river healthy is critical to the surrounding communities as well as folks throughout Ohio.

- As a follow up to a meeting with the city of Mount Vernon and Knox County in 2012, Russ Gibson participated in a conference call to assist the city's consultants with scoping the Kokosing River Corridor Management Plan that the city is currently developing. The River Corridor Management Plan was a suggestion by Ohio EPA to help the city restore and protect high quality riparian areas along the Kokosing. The Kokosing River is a state designated scenic river and one of Ohio's remaining very high quality streams. Mount Vernon anticipates completing this plan by the end of 2012 and its completion should help augment implementation of the Kokosing River TMDL and state endorsed watershed action plan. On August 20th NPS Manager Gibson spent the day with ODNR's Scenic Rivers Coordinator to tour areas of concern along the state designated Kokosing and Mohican Rivers. These are two high quality streams in north-central Ohio that are beginning to exhibit effects from the heavy agricultural land use in the watersheds as well as extensive recreational activities.

Following is an update of Section 319 and/or SWIF funded local projects that are either complete and/or ongoing in high quality watersheds within Ohio:

Chagrin River: The Chagrin River is a high quality river flowing through the glaciated portions of northeastern Ohio. More than 70 miles of the stream have been designated as a state scenic river under Chapter 1517 of the Ohio Revised Code. The Chagrin River TMDL was completed and approved in 2007 and a state endorsed local watershed action plan was completed and endorsed in 2010.



The Chagrin River is a very high quality stream flowing through quaint villages and small towns in northeast Ohio. More than 20 communities are members of the Chagrin River Watershed Partners—working actively to protect the river.

The watershed has a highly successful watershed group—the Chagrin River Watershed Partners who have been instrumental in encouraging and facilitating implementation of restoration and stream protection practices, projects and initiatives. To date, 24 projects have received funding and been implemented in the Chagrin River watershed using section 319 and/or Surface Water Improvement grant funds awarded by Ohio EPA’s NPS Program. Following is a listing of those Ohio EPA funded projects that have or are being implemented in the watershed:

SWIF and Section 319 Funded Chagrin River Stormwater Management Projects

#10SWIF-151	City of Eastlake
#10SWIF-CUY-034	City of Mayfield Heights
#10SWIF-CUY-067	Village of Gates Mills
#10SWIF-094	Chester Township
#11(h)EPA-10	Mayfield Village
#12SWIF-CUY-018	City of Pepper Pike
#12SWIF-CUY-03	Orange Village
#12SWIF-CUY-023	Village of Chagrin Falls
#12SWIF-031	City of Willoughby Hills
#12SWIF-048	Village of Kirtland Hills
#12SWIF-CUY-08	Cleveland Metroparks-North Chagrin
#13(h)EPA-027	Village of Kirtland Hills

In addition to the above referenced stormwater demonstration projects, the Chagrin Watershed Partners also partnered with Tetrattech to complete SUSTAIN modeling for the watershed. SUSTAIN is a model that was funded by US EPA and is designed to assist communities with identifying areas where retrofitting stormwater practices can be beneficial to improving water quality and reducing the flashiness of

urban stormwater runoff. For the Chagrin River, it represents yet one more tool to help protect the high quality of the river.

SWIF and Section 319 Funded Chagrin River Stream Restoration and Stabilization Projects

#06(h)EPA-28	Holden Arboretum	#11(h)EPA-14	City of Aurora
#08(h)EPA-29	Village of Chagrin Falls	USFWS Grant	City of Solon Springs
#08(h)EPA-06	Bainbridge Township	#12(h)EPA-36	Holden Arboretum
#10(h)EPA-08	Geauga County Parks	#12SWIF-CUY-GLRI-06	Ursulines College
#10(h)EPA-10	Lake Metroparks	#13(h)EPA-09	City of Willoughby
#10GLRI-CUY-68	Village of Hunting Valley	#11(h)EPA-13S	City of Pepper Pike



Removing lowhead dams, stabilizing eroding streambanks using bio-engineering methods and stormwater flows with rain gardens and other green infrastructure are all important tools to protecting the high quality of the Chagrin River. Photos above former Kenston Lake dam pool (UL); Hunting Valley Streambank Stabilization Site (UR) and Rain Garden at Mayfield Heights City hall (bottom)

Olentangy River: The Olentangy River flows through north-central and central Ohio from the city of Galion 93 miles to its confluence with the Scioto River in downtown Columbus. The watershed drains 543 square miles in six different counties. Despite flowing through the cities of Delaware, Worthington and Columbus the Olentangy retains its biological diversity and excellent water quality. However rapid conversion of farm land to suburban and residential uses continues to threaten the watershed with excessive sediments and nutrients. Historic alterations to habitat and flow have been eliminated in areas downstream of Delaware as a result of concerted efforts to remove lowhead dams and other alterations identified in the Olentangy River Total Maximum Daily Load Study.

Groups are actively participating in local watershed organizations such as Friends of the Lower Olentangy and the Upper Olentangy Alliance. Collectively these groups are facilitating the implementation of state endorsed watershed action plans in the river. Numerous Section 319 and SWIF grant funded water quality improvement projects are either ongoing or have been completed within the Olentangy River including:

SWIF and Section 319 Funded Olentangy River Stream Restoration Projects

Scenic Rivers 2004	Ohio Scenic Rivers Program—Dennison Dam Removal
#05(h)L-662	City of Delaware—Central Avenue Dam Removal
SR401-2006	City of Delaware—River Street Dam Removal
#06(h)EPA-27	City of Columbus—5 th Avenue Dam Removal
#07(h)EPA-24	City of Delaware—Headwater Stream Daylighting Project
ODOT Mitigation	Ohio Dept. of Transportation—Panhandle Dam Removal
#10SWIF-SEP-01	City of Delaware—Stratford Lowhead Dam Removal
#10SWIF-145	Liberty Township—Wildcat Run Stream Restoration
#11(h)EPA-18	City of Columbus—5 th Avenue Dam Removal
#12(h)EPA-WRRSP	City of Columbus—5 th Avenue Dam Removal
#09(h)EPA-027	Liberty Township—Liberty Park Stormwater Demonstration Areas



Removal of lowhead dams throughout the Olentangy River system has contributed to improved water quality and biological community improvement. The largest project involves the removal of the 5th Avenue Dam near the Ohio State University campus. Funding for this project came from section 319(h) subgrant project #06(h)EPA-27, WRRSP funding and the city of Columbus. Restoration of more than two miles of stream channel and riparian areas will be complete spring, 2014.

On July 23rd, Russ Gibson provided technical assistance to the city of Delaware and Carriage Town Chrysler and Plymouth regarding the removal of the last remaining lowhead dam structures within the Olentangy State Scenic River around and through Delaware, Ohio. The city was awarded funding under SEP Project #10SWIF-SEP-01 to remove these structures which are adjacent to the car dealership referenced above. Access and right of entry was to be provided by the Delaware County Fair Board, however they have been slow to provide any right of entry. The city has identified another path of entry and simply needs the dealership's permission to remove the structure on their property. I believe we have resolved these issues and look forward to this project moving ahead. Completion of this project will result in the successful re-naturalization of free-flowing conditions to more than 25 miles of this exceptional warmwater habitat stream.

Scioto River Conservation Reserve Program (CREP) Projects

Agricultural runoff from areas upstream from the city of Delaware is a significant contributor to nonpoint source causes of impairment throughout the upper reaches of the Olentangy River. The Olentangy River is a tributary of the Scioto River and therefore is included in the Scioto River CREP initiative. This project has a goal of enrolling 70,000 acres of vulnerable riparian corridor and marginal farmlands into 15-year conservation set-asides under this program administered by the USDA-Farm Service Agency (FSA). To date, nearly 16% of all lands signed up under the Scioto CREP are located within the Olentangy River watershed.

Sign-ups for the Scioto CREP within the Olentangy have been very robust. More than 10,624 acres have been enrolled in the Scioto CREP within the Olentangy watershed. Following is a county by county breakdown of CREP participation within the Olentangy watershed: (Please note: Previous figures provided by the ODNR-Division of Soil & Water Resources have been updated and corrected directly from FSA.

- Marion County—8,565 acres
- Morrow County—1,249 acres
- Delaware County—437 acres
- Crawford County—373 acres

Big Darby Creek State & National Scenic River:

Ohio's most biologically diverse stream covers 555 square miles of central Ohio just northwest and west of the Columbus metropolitan area. Big Darby Creek originates in Logan County and flows south for more than 80 miles before joining the Scioto River near Circleville, Ohio. The Creek has been designated both a state and national scenic river due to the very high quality of its biological communities. Big Darby also provides critical habitat for several state and/or federally threatened and endangered species.

Many of the tributaries to the Darby are high quality and meeting attainment of their designated aquatic life uses. However headwater reaches of Big Darby Creek are impaired as a result of channelization, habitat alteration and nutrient enrichment. In response, the Nature Conservancy in partnership with Ohio EPA via the section 319(h) grants program and the Water Resources Restoration Sponsorship Program (WRRSP) recently completed restoration and re-naturalization of more than a mile of the headwaters of Big Darby. Other partners such as the cities of Columbus and Hilliard have also implemented significant restoration projects. Following is a summary of stream restoration projects completed and/or underway within the Big Darby Watershed:

SWIF and Section 319 Funded Big Darby Creek Stream Restoration Projects

- #07(h)EPA-08 Nature Conservancy - Upper Big Darby Creek Headwaters Stream Restoration
- #08(h)EPA-19 Nature Conservancy-Big Darby Headwater Stream and Wetland Restoration
- #06(h)EPA-31 Franklin Co. Metroparks-Pleasant Valley Habitat Restoration Project
- #07(h)EPA-15 River Institute-Clover Groff Stream Restoration
- #08(h)EPA-19 City of Columbus-Clover Groff Stream Restoration
- #13(h)EPA-21 City of Hilliard-Clover Groff Stream Restoration

Big Darby Creek Land Use Planning Regulations & Protected Natural Areas

Southern reaches of the Big Darby Creek are experiencing nutrient enrichment and excessive sediments resulting from poor land use as well as the rapid conversion of agricultural areas to subdivisions and other residential development. Within the watershed, there are two primary regulatory tools in place to protect the high quality of the stream from poorly managed runoff.

- Big Darby Creek General Construction Stormwater Permit: Ohio EPA issued an updated watershed-specific general construction stormwater permit for the Big Darby Watershed in September, 2006. The permit includes strict requirements such as construction setbacks from the stream, updated stormwater BMP’s for sediment control, infiltration requirements and very strong mitigation requirements.
- Darby Accord Land Use Plan: The Darby Accord is a multi-governmental vision of land development for the Darby Creek Watershed. The Accord has very specific goals to preserve, protect and improve the Big Darby Creek’s unique and fragile ecosystem. The following must be in place:
 - Riparian buffers are in place
 - Stormwater management plans have been completed and approved
 - Conservation development restrictions are in place
 - Adequate public facilities exist or are planned to support the development



Restoring headwater streams that have been modified by previous development is one very important tool to protecting the quality of the downstream Big Darby Creek. This project is one of several recent stream restoration projects within the Clover Groff subwatershed. The photo on the left is during construction—on the right after completion of the project. This project was completed under provisions of section 319 Project #07(h)EPA-15.

Land Protection Activities

Critical land protection along high quality rivers and streams is one of the most important things that can be done to protect and improve water quality. The Big Darby Creek is fortunate that more than 9,000 acres and more than 20 miles of riparian forests are protected by the Franklin County Metroparks System. Such a large area of lands under permanent protection as natural area parks is a testament to the importance of this high quality stream to central Ohio and Ohioans generally.



Big Darby Creek as it flows through Prairie Oaks Metroparks-protecting high quality riparian corridors such as these is crucial to maintaining and improving water quality within the Darby Creeks.

Land acquisition is also ongoing in the headwater areas of Big Darby Creek. Much of the upper reaches of the Creek are in agricultural land use and there are few organized groups or park districts that are available to purchase large tracts of land. However, the Nature Conservancy has received funding from Ohio EPA's WRRSP to acquire and restore two large tracts of land in the headwater areas. More than 260 riparian acres were purchased and using 319(h) subgrant funds from Ohio EPA's NPS Program nearly 2 miles of Big Darby headwaters were restored.

Despite limited resources, organizations in and around the Darby Creeks are working diligently to protect and improve water quality and the diverse biota within the watershed. Land use regulation such as the Darby Accord will assist with "smart-growth" in the watershed and extensive restoration of tributaries and headwater regions will improve conditions throughout the watershed.



Blue-breasted darters are but one of several pollution intolerant fish species found in Big Darby Creek. More than 85 species of fish can be found in the watershed—including 5 that are state endangered and/or threatened species. The Creek is also home to numerous freshwater mussels, including state and federal threatened species. Maintaining the high quality of Big Darby is crucial.

Ohio's Urban Waters Initiative

Nearly every significant city in Ohio was settled along a river. Cleveland and Akron settled along the Cuyahoga River; Toledo the Maumee; Cincinnati the Great Miami, Columbus the Scioto, and the list could go on. Each of these urban rivers also share other less desirable common characteristics. Decades of hydromodification, destruction of riparian corridors, bulk-heading of riverbanks, and sediment and other nonpoint source pollutants flowing in with stormwater runoff. Fortunately the Clean Water Act and installation upgraded

wastewater treatment plans have solved some of the water quality problems of the 1960's 70's. As a result the conditions of some of Ohio's most urban streams have improved—for others such as the Maumee, efforts to control nonpoint sources of pollutants are still being developed.



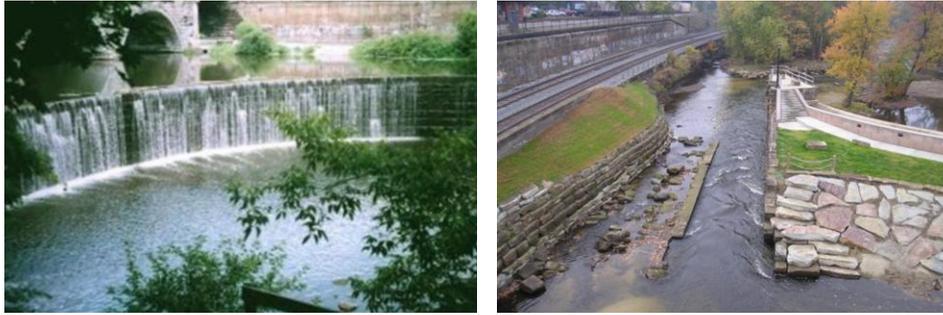
Ohio's NPS Program operates using a well-defined hierarchy of priority. Projects that eliminate high magnitude causes of impairment or restore impaired streams are of higher importance than projects that simply reduce NPS without resulting in any measurable changes in aquatic life use attainment. As a result, local governments and watershed groups in urban watersheds are frequent participants in Ohio's Section 319(h) and Surface Water Improvement Fund (SWIF) grants programs.

Middle Cuyahoga River: Ohio has several urban waters success stories but none are as significant and substantial as the dam removal and stream restoration work that has been completed along the Middle Cuyahoga River in the cities of Kent, Munroe Falls, and Cuyahoga Falls. Four dams have been removed since 2005 and large segments of previously impounded areas have been restored to free-flowing conditions with resulting measurable increases in biological communities, water quality and new recreational activities such as kayaking, canoeing and fishing. The following projects have been completed on the Middle Cuyahoga River:

- Kent Dam Removal (WRRSP Funding and Section 319 Project #03(h)EPA-07)
- Munroe Falls Dam Removal (WRRSP and Section 319 Project #02(h)EPA-14)
- City of Cuyahoga Falls—Sheraton Dam Removal (WRSSP Funding)
- City of Cuyahoga Falls—Lefever Dam Removal (WRRSP)
- Summit County—Gorge Dam Sediment Study (US EPA Funding)

The restoration of the Middle Cuyahoga River has been remarkable. Previously non-attaining stream segments are now in full attainment of warmwater habitat criteria.

Middle Cuyahoga River Dam Removal and Restoration Project Photos



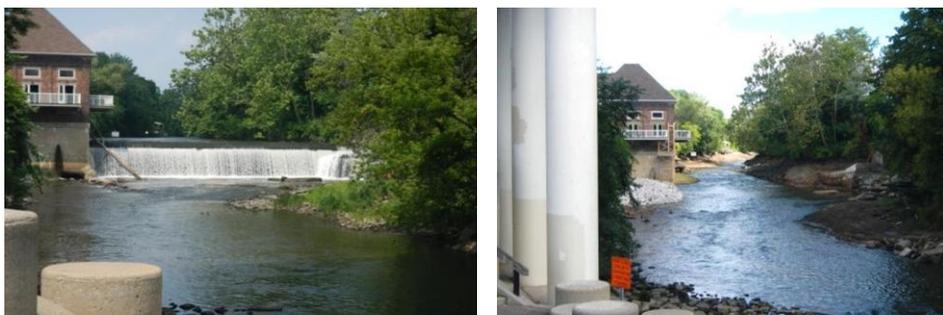
City of Kent Dam Before (L) and After Removal (R)



City of Munroe Falls Dam Before (L) and After Removal (R)



City of Cuyahoga Falls Sheraton Dam Before (L) & After (R) Removal



City of Cuyahoga Falls Before (L) and After Removal (R)

Olentangy River: The Olentangy River has the distinction of being both a High Quality Water and an Urban Waters Initiative stream. Upper reaches of the river are extremely high quality as it flows through southern Delaware and northern Franklin County. However as the stream flows through the cities of Worthington and Columbus, water quality and habitat conditions decline due to the influences of urbanization and hydromodification. Significant progress has been made in improving the urban reaches of the river as it flows through the campus of Ohio State University. Removal of the 5th Avenue lowhead dam and the restoration of more than two miles of riparian and floodplain parcels has been underway since 2012 and is nearing completion. This project is being completed with the assistance of Ohio EPA's WRRSP program and section 319(h) subgrants. Following are photos of some of the number of projects that have been completed in urban segments of the Olentangy River.



**City of Columbus 5th Avenue Dam Before (L) and After Removal (R)
Funded by Ohio EPA WRRSP and Section 319 Grant Funding**



**City of Delaware Daylighting of Unnamed Tributary to the Olentangy River
Section 319(h) Project #07(h)EPA-24**



**City of Delaware Central Avenue Dam Removal
Supplemental USEPA Section 106 Funding**

Other Ohio Urban Waters Priorities: Restoring all impaired streams in Ohio is a priority for Ohio EPA’s NPS Program. However, we recognize that stream restoration and water quality improvement is going to come from locally driven projects—whether advocated by a local government, park district, soil & water conservation district or a watershed group, local “ownership” is a critical component to any successful project. Ohio is fortunate to have numerous watershed groups, conservation organizations, park districts and local governments who recognize the value of healthy streams.

Following are examples of a few of the urban waters projects that have been completed by local groups using Ohio EPA Section 319 and/or SWIF grant funding:

Section 319(h) Subgrant-Funded Urban Stream Project Photos



**Confluence Project Mill Creek (L) – Project #09(h)EPA-15
Little Beaver Creek Restoration – Project #07(h)EPA-06**



**Nelson Park Dam Removal – Alum Creek Project #05(h)EPA-12
Kenston Lake Stream Restoration Project #08(h)EPA-06**



**City of Hilliard Clover Groff Stream Restoration (L) Project #07(h)EPA-17
Doan Brook Stream Restoration (R) Project #01(h)EPA-16**

In a state as densely populated as Ohio, and where all of the state's large cities have significant rivers running through them restoring urban waters is an important priority cog in Ohio's NPS Programming. During 2013 the United States Environmental Protection Agency also designated the Maumee River as it flows from Fort Wayne Indiana through northwest Ohio before emptying into Maumee Bay on Lake Erie, a priority designated Urban River under the agency's Urban Waters Initiative. We are pleased and proud to know that we continue to identify unique and innovative partnerships to help restore and improve Ohio's urban streams. Some examples are depicted in the photos below:

Partnering with a Purpose Innovative Urban Partnerships delivering Results



Partnering with the Toledo Botanical Garden, this restoration of a tributary to the Ottawa River was completed under provisions of Project #11(h)EPA-21.



Ruffing Montessori School in Cleveland Heights, Ohio developed a stormwater learning laboratory for their LEEDS certified green building. The stormwater lab was developed under provisions of Section 319(h) Project #12(h)EPA-38 and includes rain gardens, rainwater harvesting and reuse, pervious pavers, and bio-filtration basins offering students hands-on learning opportunities.

Restoring urban waters is an important component of Ohio's NPS Management Program. Ohioans love water and insuring that those streams closet to home are healthy and safe for public recreation is a valuable community asset. Urban Ohioans concern for their urban streams is often manifested in participation in a local watershed action group. Ohio has active and effective local watershed groups in the following urban watersheds:

- Olentangy River (Columbus)—Friends of the Lower Olentangy (FLOW)
- Mill Creek (Cincinnati)—Mill Creek Watershed Council of Governments
- Maumee River (Toledo) – Partners for Clean Streams
- Chagrin River (NE Ohio)—Chagrin Watershed Partners
- Cuyahoga River (Akron)—Friends of the Crooked River
- Euclid Creek (Cleveland)—Cuyahoga County SWCD
- Rose Run (New Albany)—City of New Albany

Phase II Lake Erie Phosphorus Task Force

Ohio EPA's, Division of Surface Water is sponsoring Phase II of the the Ohio Lake Erie Phosporus Task through FY11 GLRI Grant #EPA-R5-GL2011-1. Ohio's Nonpoint Source Program is represented on the task force by Rick Wilson and the Lake Erie Program from the Division of Surface Water is represented by Amy Jo Klei.

Phase II of the Ohio Lake Erie Phosphorus Task Force was convened to build upon the work of the original P-Task Force in 2010 to broaden the participation to include agri-business representatives and crop consultants, among others. Phase II of the Ohio Phosphorus Task Force is working toward incorporating findings of current research and working toward development of a broader consensus on the management actions necessary to reduce the extent and severity of algal blooms in the western basin.

The first Phosphorus Task Force Report identified many contributing sources to the phosphorus loading problem in Lake Erie, and included recommendations for each. However, the major focus of the report was agricultural cropland and measures that would best address phosphorus losses into surface waters that are associated with drainage water and agricultural management (e.g., tillage and fertilization methods) activities on crop land, and transport mechanisms to surface water. The vast majority of task force deliberation during Phase II related to agricultural non-point source nutrient losses from the agricultural landscape, with specific focus on Western Lake Erie Basin and land use and tributary loading.



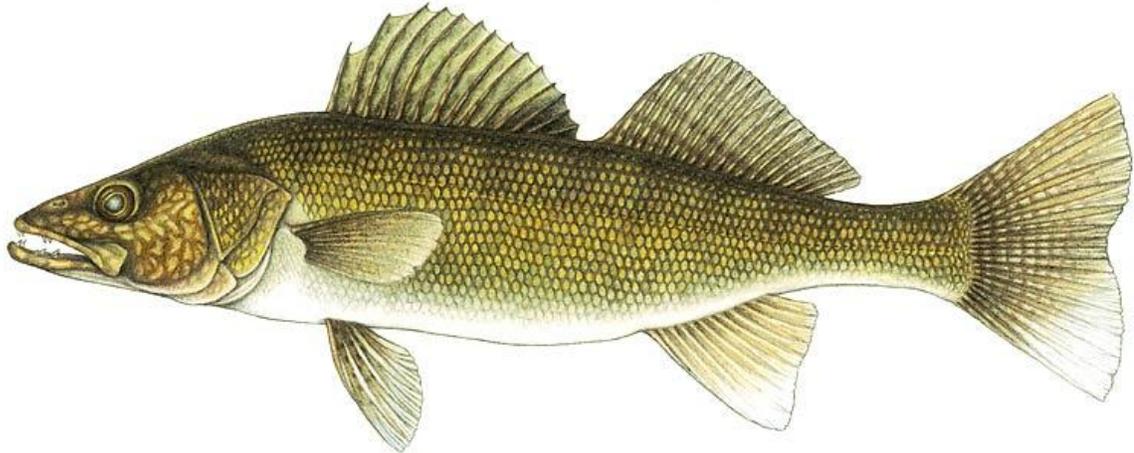
Another reason for reconvening Phase II of the Ohio Lake Erie Phosphorus Task Force was to utilize finding from researchers (coordinated through the Lake Erie Millennium Network) to refine, update, and communicate to the public, affected industries, and policy-makers what is known about the leading factors related to algal blooms in Lake Erie.

The Phase II report is nearing completion and is expected to be released as a final report near the end of 2013. The report will include additional data from recent research; information on recent conditions and current activities; target P-loading recommendations to minimize extent and severity of algal bloom extensive recommendations for refining agricultural nutrient management decision-making. Further refinement of agricultural recommendations will be included in four (4) chapters with topics that including: Soil Health, Drainage Management, Nutrient Management and Mitigating Practices, and Addition Considerations.

Phase II Phosphorus Task Force Members

Karl Gebhart—Ohio Department of Natural Resources
Kevin Elder—Ohio Department of Agriculture
Gail Hesse—Ohio Lake Erie Commission
Kevin O'Donnell—USEPA Great Lakes National Program Office
Larry Antosch, Ohio Farm Bureau Federation
Dave Baker—Heidelberg University
Tim Berning—Ohio Certified Crop Advisors
Doug Budsecker—The Andersons, Inc.
Dan Button—US Geological Survey
Steve Davis—USDA-Natural Resources Conservation Service
Libby Dayton—Ohio State University
Todd Hesterman—Henry County SWCD
Kevin King—USDA Agricultural Research Service
Amy Jo Klei—Ohio EPA Lake Erie Program
Greg LaBarge—Ohio State University Extension
Tony Logan—Ohio Environmental Council
Terry McClure—Ohio Soybean Council
Jeff Reutter—Ohio State University Sea Grant Program
Julie Weatherington-Rice—Ohio Academy of Science
Pete Richards—Heidelberg College National Center for Water Quality Research
Mark Scarpitti—USDA Natural Resources Conservation Service
Jeff Tyson—ODNR Division of Wildlife
Chris Wible—The Scotts Company
Rick Wilson—Ohio EPA Nonpoint Source Program
Ron Wyss—Lake Erie Improvement Association

- During the reporting period, Rick Wilson attended meetings of the Phase II of the Phosphorus Task Force on May, August, September, October and November 2012 and January, February, March, April, May, and June of 2013.



Ohio's NPS Monitoring Program

Starting with the FFY08 subgrant cycle, Ohio EPA began conducting all section 319-funded project water quality monitoring. Using Ohio EPA biologists, the Division of Surface Water was able to realize immediate cost-savings ranging from \$250,000 to \$350,000 per year (*versus past practice of awarding monitoring funds as part of project grants*) while insuring data consistency and compatibility with state and federal water quality databases. Annual costs using this method of monitoring declined to approximately \$60,000 per year and are limited to payroll and operating costs for existing Ohio EPA biologists. No new personnel were added to implement this initiative.

Baseline project monitoring is scheduled directly with local project managers shortly after grant awards are announced. Ohio EPA biologists arrange access to project sites and sampling for fish, bugs, habitat and general water chemistry is completed. Follow-up monitoring is conducted during the third year of each project and only after the project has been completed. Data is routinely downloaded into appropriate state and federal systems and a preliminary report is completed for each project site and stream segment where monitoring was completed.

This initiative has multiple benefits beyond obvious cost-savings and improved data quality. Local project managers are happy to be relieved of monitoring responsibilities and now are able to focus more intently on successful project implementation. Another significant benefit is that Ohio EPA's biologists are much more engaged and aware of Ohio's section 319 programming efforts. NPS Program staff now routinely involves Ecological Assessment staff in the review and funding of section 319(h) subgrant applications, which enables them to advise with more accuracy the water quality improvement potential for each funded project. Their involvement also insures familiarity with the nature of a project which enables the biologists to shape their monitoring plans more appropriately.

This initiative has been implemented for the past five monitoring seasons with excellent results. Baseline subgrant project data has been collected for the FFY08, FFY09 and FFY10 section 319 grant cycles. Follow up monitoring on select projects began with the FFY11 monitoring season and we have been able to identify measurable improvements in a number of streams where NPS projects were completed such as Alum Creek, Stillwater River, Middle Cuyahoga River, Big Darby Creek, the Chagrin and Olentangy Rivers and others. The full report is available on Ohio EPA's website.

FY13 Section 319(h) Subgrant Project Monitoring Schedule

The following summaries describe projects that have been awarded FY13 Section 319(h) or 2012 SWIF grant funding and for which pre-implementation monitoring is being conducted during the FY13 monitoring season:

City of Hillard #13(h)EPA-21: Project will restore 1125 linear feet of stream channel in Clover Groff Run in the Big Darby Creek watershed. The existing over-wide linear channel will be restored using natural channels design principles. Approximately 0.73 acres of floodplain wetland will also be created along the restored reach of stream. The site will be preserved permanently via conservation easement (5.59 acres) of which 5.2 acres will be restored with native grass, shrub and tree plantings. Contact: Clyd Seidle (614-876-7361); cseidle@hillardohio.gov

City of Gahanna #13(h)EPA-19: Project will restore 1101 linear feet of highly unstable stream channel in Sycamore Run in the Rock Fork Creek watershed using natural channel design principles. Approximately 0.28 acres of floodplain wetlands will be created within the buffer area of this project. In addition, approximately 0.28 acres of floodplain wetlands will be created within the buffer area of this project. In addition, approximately 2.6 acres of native riparian tree, shrub and grass planting will be provided. This project is being implemented consistent with the endorsed Rocky Fork Creek Watershed Action Plan and the US EPA approved Big Walnut Creek Watershed TMDL. Contact Jeff Feltz (614-342-4000); jeff.feltz@gahanna.gov

City of Willoughby #13(h)EPA-09: This project will facilitate restoration of 214 linear feet of severely eroding river bank along the Chagrin River and adjacent to the City of Willoughby's Todd Field recreational park. The restoration includes installation of four (4) bend way weirs and stream bank toe stake plantings. This project is being implemented consistent with the state endorsed Chagrin River Watershed Action Plan and the US EPA approved TMDL. Contact: David Anderson, Mayor (440-951-2800); deanderson@willoughbyohio.com

City of Medina #13(h)EPA-16: Approximately 2240 linear feet of stream bank and floodplain areas on Champion Creek as it flows through the city of Medina. Additionally more than 2 acres of riparian areas will be restored by replanting with native shrubs and trees. This project is being implemented consistent with the Rocky River endorsed watershed action plan and approved TMDL. Contact: Pat Manger (513-732-8857); pmanger@clermontcountyohio.gov

Clermont County Engineer #13(h)EPA-08: 600 linear feet of stream channel and more than 300 linear feet of stream bank in O'Bannon Creek will be restored using natural channel restoration techniques. In addition, 0.6 acres of riparian corridor will be replanted with native trees, shrubs and grasses. The project site will be protected with the approved Little Miami TMD. Contact: Pat Manger (513-732-8857); pmanger@clermontcountyohio.gov

City of Cuyahoga Falls #12SWIF-10: Project will restore and stabilize approximately 1000 linear feet of Kelsey Creek. This project is being implemented consistent with recommendations in the draft Cuyahoga River Watershed Action Plan which is currently being review for state endorsement. It is also consistent with findings and recommendations within the Cuyahoga River TMDL approved by US EPA in March, 2000. Contact: Valerie Wax Carr (330-971-8201); carrvw@cityofcf.com

Ursuline College #12SWIF-CUY-GLRI-06: An unnamed tributary to the Pepper Creek (tributary to the Chagrin River) has been negatively impacted by channelization, riparian vegetation removal and high stormwater flows. This project will restore 380 linear feet of floodplain by removing spoil piles that were placed in the stream and restore 100 linear feet of stream channel by stabilizing the eroding banks and establishing woody vegetation. This project will also construct more than 2200 square feet of bioretention areas for stormwater management. This project is being implemented consistent with recommendations within the Chagrin River watershed action plan and the Chagrin TMDL approved by US EPA in 2007. Contact: June Gracyk (440-449-4200); jgracyk@ursuline.edu

Each of the above listed projects will have pre-implementation baseline monitoring completed during the spring and/or summer of 2013. The project listed below will have post-implementation (follow up) monitoring completed during the 2013 monitoring season.

Cuyahoga County Board of Health #09(h)EPA-07: This project enabled the Cuyahoga County Health Department to improve the water quality and habitat conditions in a tributary to Tinkers Creek, created a living land laboratory for the Hudson School District. The stream restoration project restored more than 2000 linear feet of severely incised and unstable stream channel. The project also resulted in the rehabilitation of 4000 linear feet of stream bank and the reconnection of the stream with its natural floodplain. This project reduced sedimentation and reduced downstream flooding potential by providing storm water storage for more than 2 million gallons of runoff in the wetlands and floodplain that were improved. The project site will be protected in perpetuity as a result of the conservation easement that was placed upon the 6 acre project site. Contact: J. Meriling Corcherds (216-201-2001, ext 1256; mborcherds@ccbh.net)

Ohio EPA's Ecological Assessment and Monitoring Program



Ohio EPA's biological assessment and project effectiveness monitoring measures a combination of fish (IBI), macroinvertebrates (ICI) and habitat (QHEI) to determine whether a stream is attaining its designated aquatic life use. Our nonpoint source program is fortunate to have such reliable measures of effectiveness available for measuring the effectiveness of section 319 funded projects.

Presentations and Public Outreach

10/02/12: During the Ohio Health Educators Association SW Ohio Regional Conference in Dayton, Ohio Russ Gibson delivered a presentation on Nutrient Enrichment and HAB Issues associated with Grand Lake St. Marys. This presentation was attended by approximately 40 participants and generated considerable discussion during the question and answer session that followed.



10/15/12: At the National Nonpoint Source Monitoring Conference in Tulsa, Oklahoma Russ Gibson gave two presentations. The first ***“Targeting Urban BMP’s in Cuyahoga County***

Kim Wenger, Planning Director for the city of North Olmsted delivering her presentation at the National Nonpoint Source Monitoring Workshop in Tulsa, Oklahoma. The workshop was attended by approximately 200 participants.

Cuyahoga County GLRI-SWIF Project” was conducted in collaboration with Kim Wenger, Planning Director for the city of North Olmsted. This talk highlighted the successful FY10 Cuyahoga County GLRI subgrant funded projects that have been implemented in Cuyahoga County. Ms. Wenger’s talk focused on the local community implementer’s perspective. There were approximately 40 people in attendance, including Linda Hall, NPS Program Chief from US EPA Headquarters.

10/15/12: Gibson’s second presentation was titled ***“Effectiveness Monitoring to meet Watershed Goals”*** and served as a follow up to a presentation he previously delivered in Austin Texas several years earlier. This session was attended by approximately 30 participants and served to encourage regular program and project evaluations by illustrating how programming shifts can result in preferred outcomes and/or improvements.

10/25/12: Gibson delivered a presentation on SWIF and Section 319 grant programs for a stream restoration workshop sponsored by the city of Mason. 35 participants included representatives of local governments, watershed groups and others.

11/08/12: Statewide SWIF information session was conducted by Gibson and Spurbeck in Ohio EPA’s Central Office. Training provided guidance to statewide SWIF subgrantees on grants management, reporting, reimbursement, payment requests, workplan revisions etc. 12 participants attended the training.

11/14/12: Ohio EPA sponsored a Nutrient Visioning Workshop as part of the agency's process for preparing a statewide nutrient reduction strategy. This workshop was very heavily attended and included a wide array of speakers and participating organizations. NPS Manager Russ Gibson presented a talk on **"Identifying Ohio's Priority Nutrient Reduction Watersheds"** and facilitated a panel of speakers from the Nature Conservancy, City of Celina and Cyd Curtis from US EPA-Region 5 speaking about suggested criteria for selecting priority watersheds. 45 people attended this session.



Ohio EPA Director Scott Nally addressing an audience of approximately 225 people at Ohio EPA's Nutrient Visioning Workshop in November, 2012. This workshop was conducted as part of Ohio's development of a statewide Nutrient Reduction Strategy.

11/16/12: Russ Gibson and Martha Spurbeck conducted grants training to 26 people representing communities and others who received FY12 Cuyahoga SWIF-GLRI subgrants. The training was conducted in Twinsburg Ohio and was a deliverable in our grant with US EPA. Training covered all general management and administrative considerations and concerns for their FY12 GLRI-SWIF subgrant with Ohio EPA.

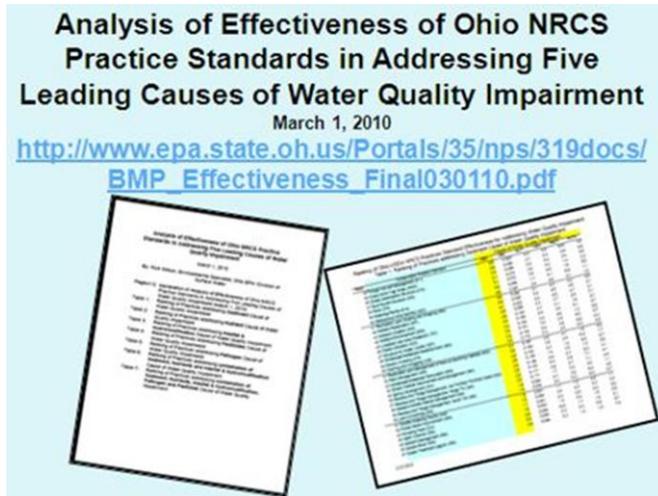
12/18/12: Rick Wilson and Russ Gibson participated in a Strategic Planning meeting with the Lake Erie Commission staff seeking to collaborate on Lake Erie watershed nonpoint source issues of mutual concern. ODNR's Coastal NPS Coordinator and Watershed Program Manager also participated in this exercise.

01/18/13: Gibson participated in a tour of the Liberty Township Stormwater Demonstration Park and gave a presentation on grant funding and financial assistance that is available to assist communities and local governments with installation of innovative stormwater management practices and completing stream restoration projects. Approximately 40 persons attended this presentation/tour.

03/04/13: Russ Gibson delivered a presentation on Grand Lake St. Marys and Ohio's efforts to reduce the impacts from harmful algal blooms to the annual conference of the National Aquatic Plant Management Society. Approximately 225 people attended this presentation.

07/16/13: Russ Gibson attended the Region 5 Nonpoint Source Program Managers meeting on July 16-17 at the US EPA Region 5 Office in Chicago. Mr. Gibson co-chaired a discussion panel on the USDA-USEPA National Water Quality Initiative for FY2013 and FY2014.

07/24/13: Analyzing NRCS Ag-**BMP Effects on Water Quality-A Process for Matching Practices to the Problems**, Rick Wilson provided this presentation as part of the US EPA’s *State Nutrient Reduction Strategies Web Series*. At least 35 participants representing multiple states and agencies were registered.



“Random acts of conservation” as has been practiced by many organizations and landowners over the years is not working. Increasingly, agencies and groups are focusing on installing the “right practice in the right places”. This webinar describes a tool developed by Ohio EPA’s Rick Wilson to help identify and prioritize those agricultural conservation practices that are most effective for improving water quality and/or reducing nonpoint source pollutant loadings.

05/16/13: Maumee Remedial Action Plan Presentation – **Lucas County GLRI Stormwater Project** Presentation – 35 people representing multiple entities attended this presentation that summarized Ohio EPA’s FY12 Great Lake Restoration Initiative grant funded Lucas County Stormwater Demonstration Project.



Matt Horvat from the Toledo Metropolitan Area Council of Governments (TMACOG) was one of several speakers at the Maumee Remedial Action Plan Workshop. Russ Gibson, NPS Program Manager also presented a talk on the Lucas County Great Lakes Restoration Initiative Project.

07/26/13: NPS Program Manager Russ Gibson and DSW Chief George Elmaraghy attended and participated in a ribbon cutting ceremony sponsored by Friends of the Lower Olentangy River (FLOW) and Liberty Township. The ceremony celebrated the completion of the Liberty Township Stormwater Demonstration Park, which highlights 15 or so green stormwater BMPs and a stream restoration site.

Liberty Township Stormwater Demonstration Park Dedication



Chief George Elmaraghy, Township Administrator Dave Anderson and other important project partners cut the ribbon to celebrate the completion of the Liberty Stormwater Demonstration Park in Liberty Township, Ohio. Photos below include practices such as Wildcat Run stream restoration, rain gardens and a vegetated infiltration basin in Liberty Park.



Ruffing Montessori School Stormwater Learning Lab Dedication



Students from Ruffing Montessori School demonstrate the features of the pervious pavers component of their stormwater demonstration learning lab. More than 300 students, parents and local and state government dignitaries participated in the dedication of the stormwater lab. This project was completed under provisions of section 319(h) subgrant funded project #12(h)EPA-38.

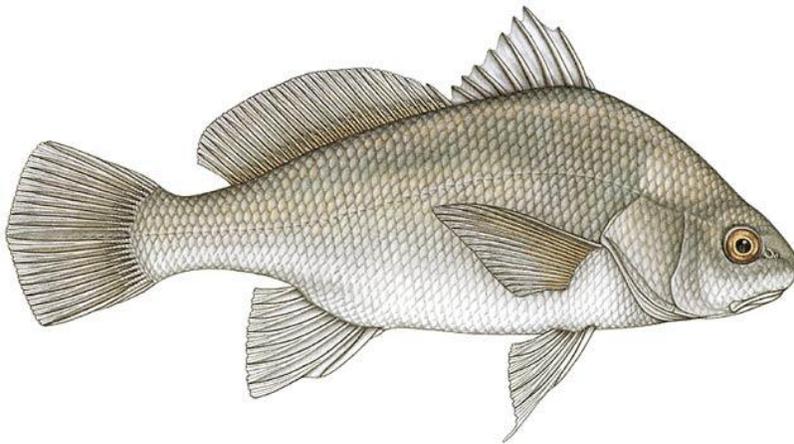


Water infiltrates through the pervious pavers flow to a cistern where it is collected and reused to water flowers and landscaping.

Released as part of the dedication ceremony, this painted lady butterfly hitches a ride on one of the Ruffing students.



Ohio's Watershed Program



Ohio's watershed program is in transition. . Since 2000, the state of Ohio has supported the establishment of local watershed groups and the employment of local watershed coordinators for the purpose of developing 9-element watershed plans. Since its inception, the Watershed Coordinator Grants Program partially funded by Ohio EPA with 319 funds and administered by ODNR's Division

of Soil & Water Resources (ODNR) resulted in the creation of more than 50 state endorsed watershed plans. When prepared consistent with TMDL studies these plans may provide an understanding of the nonpoint source problems affecting a particular watershed. These watershed action plans help to identify critical areas and assist with the targeting of implementation actions to address known problems. Such plans are also important tools for identifying high quality areas in need of protection.

Upon completion of a watershed plan, watershed groups may submit the plan for review and endorsement by the Ohio EPA and Ohio Department of Natural Resources (ODNR). Endorsement insures that a plan meets all elements required by US EPA and enhances funding opportunities from a variety of state and federal programs for watershed groups.

Another form of watershed assessment and planning being completed is the development of Total Maximum Daily Load (TMDL) studies. The TMDL program was established under Section 303(d) of the Clean Water Act ([33 U.S.C. 1313](#)) and like other types of watershed plans, TMDL studies focus on identifying and restoring polluted rivers, streams, lakes and other surface water bodies. A TMDL is a robust scientific assessment of water quality problems and an inventory of all contributing sources of pollution in a watershed. A TMDL specifies the amount of pollutants that must be reduced in order to meet Ohio's water quality standards. A TMDL also provides specific recommended actions needed to restore a watershed. During the FY13 reporting period, Ohio EPA submitted TMDLs for review and approval in 2 project areas covering 27 HUC-12 subwatershed units. TMDLs were approved for the Upper Grand River and Moxahala River watersheds. New TMDL initiative commenced in 108 12-digit HUC watershed units and 3 large river units in 6 project areas. New assessment areas for FY13 include:

- St. Joseph River
- Tiffin River
- Mahoning River (lower)
- Wolf, Olive Green, Meigs & Rainbow creeks (tribs in lower Muskingum watershed)
- Bokes Creek
- Stillwater River

Whether a watershed action plan is completed by a local watershed group or by Ohio EPA as a TMDL, watershed based planning is a critical piece of Ohio's efforts to address nonpoint source pollution. Watershed planning provides numerous benefits including:

- Identifying specific water quality problems
- Identifying solutions to identified problems; and
- Linking financial resources to environmentally sensible and effective actions

However, as previously indicated, Ohio's watershed program is in transition. Where once watershed planning was the critical program emphasis, after an investment of more than \$4 million in Section 319(h) grant funds since 2010, implementing the recommended actions within watershed action plans and TMDL studies is today's priority. Implementation is a priority second to none others. Hydromodification, habitat alteration, nutrients and silt/sediment are the highest magnitude causes of nonpoint source impairments in Ohio. Addressing these issues with effective projects and programs must be the focus of attention for water quality professionals.

Several efforts are underway to more effectively track implementation at the watershed scale. For instance, Ohio's NPS partner the Ohio Department of Natural Resources requires each recipient of a watershed coordinator to provide an annual report on implementation activity within their watersheds. Reviewing this information has been enlightening and clearly demonstrates that some watersheds have been exceptional in working with local governments, park districts and other large land holding organizations to implement robust stream restoration and nonpoint source reduction projects. The data is equally clear that some of the other watersheds still have a good bit of work to do.

As we continue to work through the program's transition from planning to implementation it became clear that changes were in order. Following consultation with leadership at Ohio EPA and ODNR, it was determined that 319 grant financial support of the Watershed Coordinator Program would be better spent helping to facilitate implementation activities. Since 2000, Ohio EPA's support to ODNR's Division of Soil & Water Resources for the Watershed Coordinator Grants Program has totaled nearly \$5 million. Ohio EPA has historically provided funds not only for watershed coordinator program funding but also for the ODNR staff to administer the program.

The program is a proven model for successfully developing local watershed groups and 9-element watershed action plans. We are committed to moving forward with the program and are providing nearly all of the financial support for ODNR to maintain staff for the program. Meanwhile Ohio EPA through the Nonpoint Source Program is continuing to identify opportunities to advance implementation of nonpoint source management programs to restore impaired Ohio waters and to protect our high quality waters.

For more information about Ohio's watershed planning efforts, Ohio EPA has developed "A Guide to Developing Local Watershed Action Plans in Ohio". This document is located in a downloadable format at the following Ohio EPA web link: <http://www.epa.state.oh.us/dsw/nps/wsguide.pdf>.

The following information was provided to Ohio EPA by ODNR as part of their annual progress report. A more specific Watershed Coordinators annual report will be available on ODNR's website when the 2013 report is published.

Watershed Coordinator Grants Program

The Ohio Department of Natural Resources Division of Soil & Water Resources administers the Ohio Watershed Coordinator Program (OWCP) in cooperation with Ohio EPA Division of Surface Water, and ODNR divisions of Mineral Resources Management and Wildlife, and Office of Coastal Management. For the 2012 calendar year DSWR received \$730,000 to administer 25 grants. \$167,000 of the total was provided by Ohio EPA's Nonpoint Source Program under provisions of a section 319(h) subgrant.

The OWCP grants are unique in that they provide funds solely to employ watershed coordinators. Grant funds and associated match may only be utilized for wages and/or fringe. The program requires a 20% cash cost-share acquired by the local grant sponsor. Grants are currently awarded for four years to develop state endorsed watershed action plans, or three years to coordinate implementation of state endorsed watershed action plans. Although grants are awarded on a multi-year basis, agreements are renewed annually.

The program currently supports 20 watershed coordinator grants for the following watersheds:

Watershed

Arcola Creek
Lower Big Walnut
Blanchard River
Captina Creek
Chagrin River
Euclid Creek
Grand Lake St. Marys
Huff Run
Maumee River
Mill Creek-Ohio River
Monday Creek
Olentangy River
Portage River
Raccoon Creek
Rocky River
Southern Watershed
Sunday Creek
Tinkers Creek
White Oak Creek
Yellow Creek

Sponsor

Lake County SWCD
Franklin County SWCD
Blanchard River Watershed Partners
Belmont County SWCD
Chagrin River Watershed Partners
Cuyahoga County SWCD
Mercer County SWCD
Rural Action
Defiance County SWCD
Mill Creek Watershed Council of Governments
Rural Action
City of Delaware
Wood County SWCD
Ohio University
Cuyahoga County SWCD
Friends of the Muskingum River
Rural Action
Tinkers Creek Watershed Partners
Brown County SWCD
Jefferson County SWCD

ODNR maintains an interactive map of Ohio illustrating status of the Ohio Watershed Coordinator Grant Program with watershed coordinator contact information. The map is up to date as of August 22, 2013 and can be found at the following web site:

<http://www2.dnr.state.oh.us/website/dswr/Watershed%20Grants/>

An Ohio Watershed Program Web page is also maintained by ODNR

<http://www.dnr.state.oh.us/tabid/9192/Default.aspx>

Request for Proposals (RFP):

Due to reduction in funding to the Ohio Watershed Coordinator Grant Program, DSWR was unable to offer a state-wide competitive RFP during FFY 2013. However, based on priorities of ODNR Division of Mineral Resources Management and Division of Wildlife, new grants were awarded to Rural Action for Monday Creek, Ohio University for Raccoon Creek, and Jefferson Soil and Water Conservation District for Yellow Creek; all of which began January 2013 as three-year implementation grants.

Annual Reviews and Orientations:

All active watershed grant sponsors (20) received either an “Annual Review” or “New Watershed Coordinator Orientation” in FFY 2013. For each Annual Review a summary status report was generated and distributed to the sponsor and Area Assistance Team (AAT) members prior to the Annual Review meetings. Greg Nageotte conducted all of the Annual Reviews and Orientations with participation of the watershed coordinator and a sponsor organization representative. Members of the “Area Assistance Team,” comprised of Ohio EPA, ODNR, and OSU Extension field staff, were also invited. Meeting discussion focused on documentation of water quality improvements and interim measures of implementation success for 3-year grants. The focus of 4-year grants is on progress completing state-endorsed watershed action plans. Administrative requirements and program principles and priorities were also reinforced.

New Watershed Coordinator Grant Orientations

- Portage River – Wood SWCD, December 3, 2012
- White Oak Creek – Jefferson SWCD, February 19, 2013
- Upper Maumee – Defiance SWCD, March 8, 2013
- Upper Olentangy – City of Delaware, May 13, 2013

Each new watershed coordinator with a sponsor representative receives an orientation with program manager, Greg Nageotte. A slide presentation (attached) is used to communicate program background and objectives. Status and progress of previous watershed coordinator is discussed including review of the grant work plan. Administrative requirements of the program are discussed in detail including:

- Quarterly Fiscal Report
- Semi-annual Progress Report
- Annual Implementation Report
- Annual Implementation Funding Report (if applicable)
- Final Progress Report
- Final Fiscal Report

All watershed program reports, work plans, agreements and other grant related materials are available for download from the following ftp site:

[ftp://ftp.dnr.state.oh.us/Soil & Water Conservation/WS%20Program/WC%20Progress%20Reports/](ftp://ftp.dnr.state.oh.us/Soil%20&%20Water%20Conservation/WS%20Program/WC%20Progress%20Reports/)

ODNR also produces a comprehensive Ohio Watershed Program Annual Report detailing aggregated data and highlights of each individual sub-grant. The most recent report covering the 2012 Ohio State Fiscal Year and published during FFY 13 is available here:

http://www.dnr.state.oh.us/Portals/12/water/watershedprograms/2011-12_Watershed_Coordinator_Annual_Rpt.pdf

A copy of the 2013 Ohio Watershed Coordinator Program Annual Report will be submitted later this year when it is received from ODNR.

Tracking Watershed Implementation: The following tables were distilled from watershed implementation data submitted by ODNR as a condition of their Section 319(h) subgrant with Ohio EPA. Watershed coordinators provide ODNR with implementation activity using a standardized “universe” of deliverables that is consistent with that used by Ohio EPA’s NPS Program. Ohio EPA’s staff previously “mined” a number of watershed action plans to distill recommended implementation actions in each plan – then as implementation data is collected, it is compared to those recommendations. Several of the following watersheds have been tracked for five consecutive years. Tracking the implementation of watershed plans in this manner allows for an objective evaluation of a watershed group’s general performance.

Tables summarizing implementation actions within these selected watersheds are provided as a source of reference on the pages that follow. Not all watersheds currently receiving watershed coordinator grants are included in this assessment. Where data is present, the remainder will be added during the next reporting period.

Chagrin River—HUC 04110003

Implementation Summary of Watershed Action Items 2008 through 2012

	ACTION ITEM REPORTED	Units	2008	2009	2010	2011	2012	Total to Date
Action Items Reported and Included in Watershed Action Plan	Acquire Conservation Easements	Acres	1,232	102	113	188	410	2,045
	Develop BMP Implementation Database	Database	0	0	0	0	0	0
	Restore Wetlands	Acres	0	1	1	1	6	9
	Plant Wetland Species	Acres	0	1.5	0	1	10	13
	Restore Stream Channel	Linear ft.	0	0	0	1,635	6500	8,135
	Modify/Remove Dams	Dams	0	1	1	1	1	4
	Adopt Local Riparian Setback Ordinances	Ordinances	19	0	0	17	2	38
	Restore/Enhance Floodplains	Linear Feet	0	0	0	200	3,400	3,600
Action Items Reported but not included in Watershed Action Plan	Remove/Treat Invasive Species	Acres	30	82	840	2,181	260	3,393
	Plant Trees or Shrubs in Riparian Areas	Trees	450	800	0	2,046	2,205	5,501
	Plant Grasses in Riparian Areas	Acres	0	7	0	14	4	25
	Remove Levees	Linear Feet	0	0	0	0	3,175	3,175
	Acquire Wetland Conservation Easements	Acres	0	0	0	146	0	146
	Inspect HSTS	Inspections	1,003	1,562	1,236	1,117	1,076	5,994
	Repair/Replace Traditional HSTS	HSTS	188	226	242	154	154	964

Alum Creek—HUC 05060001 160

Implementation Summary of Watershed Action Items 2008 through 2012

	ACTION ITEM REPORTED	Units	2008	2009	2010	2011	2012	Total to Date
Action Items Reported and Included in Watershed Action Plan	Acquire Riparian Conservation Easements	Acres	0	0	0	0	0	0
	Repair/Replace HSTS	HSTS	0	0	0	0	0	0
	Reconstruct/Restore Wetlands	Acres	0	0	0	0	0	0
	Remove/Modify Dams	Dams	1	2	0	0	0	3
	Restore Stream Channel	Linear Feet	0	10,560	0	0	0	10,560
	Daylight Culverted Tributary	Linear Feet	0	0	0	0	0	0
	Install Low Impact Demonstration Project	Project	0	0	0	0	0	0
	Install Livestock Exclusion Fencing	Linear Feet	0	0	0	0	0	0
Action Items Reported but not included in Watershed Action Plan	Plant Trees or Shrubs in Riparian Areas	Acres	5	3	2	15	0	25
	Restore Streambank by Recontouring	Linear Feet	50	0	0	0	0	50
	Plant Wetland Species	Acres	1.5	.3	0	0	0	2
	Remove/Treat Invasive Species	Acres	7.5	1.1	0	30	0	39

Mill Creek—Ohio River Tributary

Implementation Summary of Watershed Action Items 2011-2012 Reporting

	ACTION ITEM REPORTED	Units	2011	2012	Total to Date
Action Items Reported	Plant Grasses in Riparian Areas	Acres	13	0	6,013
	Remove/Treat Invasive Species	Acres	5	3	8
	Restore Flood Plain	Linear Feet	2,000	0	2,000
	Restore Stream Channel	Linear Feet	4,531	0	4,531
	Plant Trees or Shrubs in Riparian Areas	# Trees	9,600	0	9,600
	Plant Trees or Shrubs in Riparian Areas	Acres	13	1	14
	Install In-Stream Habitat Structures	Structures	14	0	14
	Install Grade Structures	Structures	16	0	16
	Reconnect Wetland to Stream	Acres	5	0	6
	Reconstruct & Restore Wetlands	Acres	5	0	5
	Plant Wetland Species	Acres	5	3	3

Rocky River—HUC 04110003 010

Implementation Summary of Watershed Action Items 2011-2012 Reporting

	ACTION ITEM REPORTED	Units	2011	2012	Total to Date
Action Items Reported	Restore Streambank using bio-Engineering	Linear Feet	200	0	200
	Repair/Replace Failing HSTS	Units	100	21	121
	Acquire Wetland Conservation Easements	Acres	0	21	21
	Restore Stream Channel	Linear Feet	0	1,100	1,100
	Remove/Modify Dams	Dams	0	3	3
	Restore Natural Flow	Linear Feet	0	4,750	4,750
	Install In-Stream Habitat Structures	Structures	0	0	0
	Install Grade Structures	Structures	0	8	8

Big Walnut Creek (Lower)—HUC 050600011501

Implementation Summary of Watershed Action Items 2011 & 2012 Reporting

	ACTION ITEM REPORTED	Units	2011	2012	Total to Date
Action Items Reported	Remove/Treat Invasive Species	Acres	2	0	2
	Reconstruct/Restore Wetlands	Acres	37	0	37
	Plant Wetland Species	Acres	30	0	30
	Acquire Riparian Conservation Easements	Acres	15	0	15
	Acquire Wetland Conservation Easements	Acres	4	0	4
	Plant Manure/Cover Crops	Acres	5	220	225
	Implement Prescribed Grazing	Acres	88	0	88
	Implement Roofwater Management Practice	Acres	1	0	3

Lye Creek—Blanchard River—HUC 041000080204

Implementation Summary of Watershed Action Items

2012 First Year Reporting

	ACTION ITEM REPORTED	Units	2012	Total to Date
Action Items Reported	Install Grass Waterways	Linear Feet	6,000	6,000
	Install Vegetated Buffer Strips	Acres	3	3

Grand Lake St. Mary's—HUC 05120101 020-030

Implementation Summary of Watershed Action Items 2008 through 2012

	ACTION ITEM REPORTED	Units	2008	2009	2010	2011	2012	Total To Date
Action Items Reported and Included in Watershed Action Plan	Develop Nutrient Management Plans	Acres	4,743	0	0	25	0	4,768
	Install Vegetated Buffer Strips	Acres	23	517	1	0	0	541
	Reconstruct/Restore Wetlands	Acres	9	0	14.7	41	0	65
	Install Filter Areas	Acres	0	0	0	0	0	0
	Repair/Replace failing HSTS	HSTS	6	0	3	39	18	66
	Installed Controlled Drainage Structures	Structures	5	0	0	0	0	5
	Implement Conservation Tillage Practices	Acres	200	0	0	57	0	257
	Plant Cover/Manure Crops	Acres	1,083	1,678	1,000	496	0	4,257
	Construct 2-stage Channel	Linear ft.	0	0	0	100	0	100
	Install Milk House Waste Treatment Practices	Practices	0	0	0	0	0	0
Action Items Reported but not included in Watershed Action Plan	Install Erosion & Sediment Control Structures	Structures	0	8	17	6	0	25
	Develop Whole Farm Conservation Plans	Acres	0	2,800	16	0	0	2,816
	Install Grassed Waterways	Acres	0	18.5	17	21,949	0	21,985
	Plant Trees/Shrubs in Riparian Areas	Acres	0	2	0	0	0	2
	Plant Wetland Species	Acres	0	0	24.3	1	0	24
	Install Heavy Use Pads	Pads	0	0	1	0	0	1
	Install Roof Water Management Practices	Practices	0	1	1	11	0	13
	Implement Manure Management Practices	Acres	0	0	7,000	0	0	7,000
	Install Livestock Crossings	Crossings	0	0	0	3	0	3
	Construct Animal Waste Structures	Structures	0	6	4	11	0	10
	Remove/treat Invasive Species	Acres	4	0	0	4	56	64

Lower Olentangy River—HUC 05060001 020

Implementation Summary of Watershed Action Items 2008 through 2012

	ACTION ITEM REPORTED	Units	2008	2009	2010	2011	2012	Total to Date
Action Items Reported and Included in Watershed Action Plan	Acquire Riparian Conservation Easements	Acres	0	123	0	0	0	123
	Restore Streambank using Bio-Engineering	Linear Feet	0	0	0	0	0	0
	Restore Streambank by Re-contouring	Linear Feet	0	0	0	0	0	0
	Plant Trees or Shrubs in Riparian Areas	Acres	10	24	0	20	0	34
	Install Erosion & Sediment Control Structures	Structures	0	0	0	0	0	0
	Repair/replace HSTS	HSTS	9	3	0	0	0	12
	Restore Natural Flow	Linear Feet	0	0	475	0	0	475
	Remove/Modify Dams	Dams	0	0	0	0	0	0
	Remove/Modify Levees	Levees	0	0	0	0	0	0
	Reconstruct/Restore Wetlands	Acres	0	1.5	0	0	0	2
	Restore Stream Channel	Linear Feet	0	0	475	0	0	475
	Install In-Stream Habitat Structures	Structures	0	10	0	0	0	10
Action Items Reported but not included in Watershed Action Plan								
	Remove/Treat Invasive Species	Acres	12	6	0	35	0	18

White Oak Creek—HUC 05090201

Implementation Summary of Watershed Action Items 2008-2012

	ACTION ITEM REPORTED	Units	2008	2009	2010	2011	2012	Total to Date
Action Items Reported and Included in Watershed Action Plan	Install Livestock Exclusion Fencing	Linear ft	10,000	5,003	3,206	0	0	18,209
	Install Alternative Water Supplies	Supplies	4	6	2	0	0	12
	Implement Prescribed Grazing Practices	Acres	50	449	108	51	0	658
	Repair/Replace failing HSTS	HSTS	3	0	0	0	0	3
	Plant Grasses in Riparian Areas	Acres	12	0	0	0	0	12
	Restore Stream Channel	Linear ft.	0	0	0	0	0	0
	Acquire Conservation Easements	Acres	0	15	4	0	0	19
	Pesticide Application Education	Workshops	3	2	0	0	0	5
	Install Heavy Use Feeding Pads	Pads	5	3	3	0	0	11
	Plant Trees or Shrubs in Riparian Area	Acres	0	0	0	0	0	0
Action Items Reported but not included in Watershed Action Plan	Implement Conservation Tillage Practice	Acres	100	0	0	0	0	100
	Plant Cover/Manure Crops	Acres	0	0	50	586	602	1,238
	Install Vegetated Buffer Strips	Acres	0	1	0	0	0	1
	Install Livestock Crossings	Crossings	0	0	3	0	0	3
	Install Grassed Waterways	Acres	4	0	2	0	0	6
	Install Nitrogen Reduction Practices	Acres	0	14	0	0	0	14
	Develop Nutrient Management Plans	Acres	2	0	0	0	0	2
	Develop Whole Farm Management Plans	Acres	30	50	0	0	0	80
	Construct Animal Waste Storage Structures	Structure	1	0	0	0	0	1
	Restore/Reconstruct Wetlands	Acres	0	0	4	0	0	4
	Plant Wetland Species	Acres	0	0	4	0	0	4
	Remove/Treat Invasive Species	Acres	0	25	70	0	0	95
	Implement Roof Water Management Practices	Practice	1	0	0	0	0	1
	Implement Manure Management Practices	Acres	80	0	0	0	0	80

Huff Run—05040001-050

Implementation Summary of Watershed Action Items 2008 through 2012

	ACTION ITEM REPORTED	Units	2008	2009	2010	2011	2012	Total to Date
Action Items Reported and Included in Watershed Action Plan	Plant Trees/Shrubs in Riparian Areas	Acres	30	0	0	0	0	30
	Install Limestone Channels	Linear Feet	2,841	2,741	2,000	185	500	8,267
	Repair Subsidence Sites	Acres	0	0	0	0	0	0
	Reclaim Abandoned Mine Land	Acres	46	23	20	0	10	99
	Reclaim Pit Impoundments	Acres	4	0	15	0	1	20
	Install Successive Alkaline Producing Systems	SAPS	0	0	1	0	0	1
	Construct AMD Wetlands	Acres	0	0	2	0	0	2
	Repair/Replace HSTS	HSTS	10	4	0	0	0	14
	Install Livestock Crossings	Crossings	0	0	0	0	0	0
	Install Livestock Exclusion Fencing	Linear Feet	0	0	0	0	0	0
	Design & Install Access Roads	Linear Feet	0	0	0	0	0	0
Action Items Reported but not included in Watershed Action Plan	Restore Positive Drainage	Acres	46	23	0	0	11	80
	Cover Toxic Mine Spoils	Acres	5	13	0	0	10	28
	Implement Conservation Tillage Practices	Acres	112	0	0	0	0	112
	Implement Prescribed & Conservation Grazing	Acres	129	44	96	0	0	269
	Install Alternative Water Supplies	Supplies	4	1	0	0	0	5
	Install Erosion & Sediment Control Structures	Structures	0	0	1	0	0	1
	Remove/Treat Invasive Species	Acres	0	0	28	0	0	28
	Install Livestock Exclusion Fencing	Linear Feet	3,100	0	0	0	0	3,100
	Install Steel Slag Leach Beds	Beds	0	2	0	1	0	2

Monday Creek—HUC 05030204 060

Implementation Summary of Watershed Action Items 2008 through 2012

	ACTION ITEM REPORTED	Units	2008	2009	2010	2011	2012	Total To Date
Action Items Reported and Included in Watershed Action Plan	Plant Trees/Shrubs in Riparian Areas	Acres	0	6	5	0	0	11
	Construct Lime Dosers	Dosers	0	0	0	0	0	0
	Install Limestone Leach Beds	Beds	1	0	0	1	4	6
	Install Steel Slag Leach Beds	Beds	1	0	2	1	0	4
	Repair Subsidence Sites	Acres	25	0	13	6	1	45
	Eliminate Stream Captures	Captures	0	0	0	0	0	0
	Cover Toxic Mine Spoils	Acres	0	0	6	0	0	6
	Install Limestone Channels	Linear Feet	725	0	8,306	2,640	770	12,441
	Repair/Replace HSTS	HSTS	0	0	0	0	0	0
	Implement Prescribed/Conservation Grazing	Acres	0	212	382	0	0	594
	Install AMD Wetlands	Acres	0	0	3	2	0	5
	Install Livestock Exclusion Fencing	Linear Feet	0	4,765	0	0	0	4,765
	Restore Positive Drainage	Acres	0	0	55	5	4	64
Action Items Reported but not included in Watershed Action Plan	Develop Whole Farm Management Plans	Acres	0	372	172	0	0	544
	Plant Grasses in Riparian Areas	Acres	0	0	3	0	0	3
	Remove/Treat Invasive Species	Acres	0	0	198	0	0	198
	Reclaim Abandoned Mine Land	Acres	0	0	55	0	0	55
	Conduct Soil Tests	Tests	0	18	0	0	0	18

Euclid Creek—04110003 010 020

Implementation Summary of Watershed Action Items 2008 through 2012

	ACTION ITEM REPORTED	Units	2008	2009	2010	2011	2012	Total to Date
Action Items Reported and Included in Watershed Action Plan	Modify Dams	Dams	0	0	0	0	0	0
	Retrofit Stormwater Culverts	Culverts	0	0	0	0	0	0
	Retrofit Stormwater Retention Ponds	Ponds	0	0	0	0	0	0
	Install Phosphorus Reduction BMPs	BMPs	0	0	0	0	0	0
	Purchase Land in Critical Areas	Acres	0	0	0	0	0	0
	Repair/Restore HSTS (Eliminate HSTS)	HSTS	127	2	2	24	0	155
	Inspect HSTS	Inspections	5	4	11	0	0	20
	Acquire Conservation Easements	Acres	0	0	3	0	164	167
	Expand Green Space in Watershed	Miles	0	0	0	0	0	0
	Establish Riparian Setbacks	Miles	0	0	0	0	0	0
	Restore Stream Channel	Linear ft.	0	0	0	0	1,100	0
	Plant Native Vegetation	Acres	0	0	0	0	0	0
Action Items Reported but not included in Watershed Action Plan	Remove/Treat Invasive Species	Acres	1	1	1	26	3	3
	Plant Grasses in Riparian Areas	Acres	0	0	1	0	0	1
	Install In-Stream Habitat Structures	Structures	0	0	0	0	4	4
	Restore Floodplain	Linear Feet	0	0	0	0	1,287	1,287
	Reconstruct/Restore Wetlands	Acres	0	0	0	0	2	2
	Install Rain Gardens	Gardens	1	0	0	0	0	1
	Install Rain Barrels	Barrels	39	0	0	0	0	39

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The following information is the annual report submittal for the Ohio Department of Natural Resources, Division of Soil & Water Resources. Ohio EPA has taken the liberty to move the narrative dealing with ODNR's administration of the Watershed Coordinator Grants Program to the previous section titled "Ohio's Watershed Program".

Ohio Department of Natural Resources

FFY2013 Nonpoint Source Management Program

Division of Soil and Water Resources

Introduction: During FFY2013, ODNR Division of Soil and Water Resources (DSWR) received \$428,100 in federal section 319(h) grant funds from Ohio EPA's Division of Surface Water to assist with implementation of Ohio's Nonpoint Source (NPS) Management Program. The framework for Ohio's NPS Program is detailed in the NPS Management Plan that was approved by US EPA on August 29, 2006. Provisions of the approved plan effectively guide Ohio's implementation of state and local nonpoint source management measures and activities. Ohio's approved NPS Management Plan is available for review on the internet at: <http://wwwapp.epa.ohio.gov/dsw/nps/NPSMP/index.html>.

DSWR maintains an important role in implementing Ohio NPS Management Program that is to support an effective network of Soil and Water Conservation Districts and watershed partnerships in Ohio, and to align and strengthen various implementation programs to meet Ohio's NPS goals. The following comprise the services DSWR provides.

1. Nonpoint Source Management Program Support
2. Watershed Coordinator Grants Program Management
3. Technical Support Services for Watershed Plan and NPS Implementation with specific focus on Grand Lake Saint Marys watershed nutrient remediation.
4. Watershed Group Support Services & Training
5. Administer the Ohio Watershed Action Plan Endorsement Process

Activities successfully implemented during FFY13 to support and/or enhance Ohio EPA's Nonpoint Source Management Program include:

Nonpoint Source Management Program Support: DSWR works closely with Ohio EPA Division of Surface Water, OSU Extension, and other partners to administer and continuously seek ways of improving the multi-faceted effort to reduce NPS and improve water quality in Ohio. DSWR supports three employees fully dedicated to the NPS and watershed programs.

NPS/Watershed Team:

The DSWR NPS/Watershed Team currently consists of Greg Nageotte, Watershed Program Manager; Constance White, Ohio River Watershed Specialist; and a currently vacant Coastal Nonpoint Program Coordinator position. The Coastal Nonpoint Coordinator position is funded, in part, with funds administered by the ODNR Office of Coastal Management. Additional DSWR staff provides support on an as needed basis.

The DSWR team is managed by Greg Nageotte, who also maintains responsibility for supporting six Central Ohio watershed partnerships. Mr. Nageotte consults with Ohio EPA NPS Program Manager, Russ Gibson; and Joe Bonnell, OSU Extension as needed to coordinate program activities.

Inter-agency Coordination / Ohio Water Resources Council:

DSWR Chief, Karl Gebhardt, is a member of the Ohio Water Resources Council (OWRC) State Agency Coordinating Group (SACG). Deputy Chief, Ted Lozier, and Watershed Program Manager, Greg Nageotte, serve as his alternates. The OWRC is a cabinet level body created in Ohio Revised Code to “serve as a forum for policy development, collaboration and coordination among state agencies, and strategic direction with respect to state water resource programs.” The SACG consisting of staff from the member agencies and the Executive Director of the Ohio Lake Erie Commission serves Council members in support and research roles. The SACG members collaborate and form workgroups to implement actions of the OWRC strategic plan, which includes among its seven priorities, “Watershed Management” and “Water Quality.”

Technical Support Services:

DSWR staff provides a variety of technical assistance in the area of NPS pollution control on a site-by-site basis in cooperation with SWCDs and/or watershed partnerships.

The following activities were performed by DSWR staff in FFY 2013:

- Watershed action plan development assistance including estimation of load reductions
- 319 grant proposal preparation including estimation of load reductions
- Participation in watershed coordinator annual reviews
- Attendance and participation in watershed partnership meetings
- Technical assistance for BMP selection and design
- Individual consultation with watershed coordinators and partnerships
- Assistance to Ohio EPA and ODOT on stormwater, stream restoration, and wetland mitigation
- Interagency coordination on permit issuance and program development
- Watershed Action Plan development, review, and implementation

Additional Information is available in FFY11 “Core” Grant Final Report which is attached as an Addendum to Ohio’s Nonpoint Source Program Annual Report)

Administer the Ohio Watershed Action Plan Endorsement Process:

DSWR accepts watershed action plans developed by local agencies and organizations, and facilitates an inter-agency review process that ensures all Ohio endorsed plans meet state guidance developed by Ohio EPA, and include all “9 Essential Elements” according to U.S. EPA guidance.

The following WAPs were reviewed and received State endorsement FFY 13.

Stonelick Creek	7/23/2013	ftp://ftp.dnr.state.oh.us/Soil & Water Conservation/WatershedActionPlans/EndorsedPlans/East%20Fork%20Little%20Miami%20R.%20(Stonelick%20Creek).pdf
Doan Brook	5/8/2013	ftp://ftp.dnr.state.oh.us/Soil & Water Conservation/WatershedActionPlans/EndorsedPlans/Doan%20Brook%20WAP.pdf
Arcola Creek	4/1/2013	ftp://ftp.dnr.state.oh.us/Soil & Water Conservation/WatershedActionPlans/EndorsedPlans/Arcola%20Creek.pdf
Upper Grand River	1/11/2013	ftp://ftp.dnr.state.oh.us/Soil & Water Conservation/WatershedActionPlans/EndorsedPlans/Upper%20Grand%20River.pdf
Middle Cuyahoga River	1/11/2013	ftp://ftp.dnr.state.oh.us/Soil & Water Conservation/WatershedActionPlans/EndorsedPlans/Middle%20Cuyahoga.pdf
Riley Creek	12/7/2012	ftp://ftp.dnr.state.oh.us/Soil & Water Conservation/WatershedActionPlans/EndorsedPlans/Riley%20Creek/

ODNR also maintains an interactive map of Ohio illustrating all watersheds with endorsed WAPs. The map is up to date as of August 22, 2013:

<http://www2.dnr.state.oh.us/website/dswr/Watershed%20Action%20Plans/>

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Appendices

Table 1-3
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2003 Subgrant Recipients

Federal Grant #C997550003
Grant Closed 06/30/08

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
03(h)EPA-04	Darke County Health Department	Stillwater River	HSTS Replacement	\$ 775,478
03(h)EPA-05	Cuyahoga County Health Department	Rocky River	HSTS Replacement	\$ 624,085
03(h)EPA-06	Little Beaver Creek Land Foundation	Little Beaver Creek	Watershed Planning	\$ 100,000
03(h)EPA-07	City of Kent	Cuyahoga River	Dam Removal/Modification	\$ 500,000
03(h)EPA-08	Crossroads RC&D	Huff Run	Acid Mine Drainage Abatement	\$1,000,000
03(h)EPA-09	Vinton County SWCD	Raccoon Creek	Acid Mine Drainage Abatement	\$ 764,521
03(h)EPA-10	Friends of Big Walnut Creek	Big Walnut Creek	Watershed Planning	\$ 100,000
03(h)EPA-11	Ohio State University	Olentangy River	TMDL Development	\$ 104,974
03(h)EPA-12	Ohio University-ILGARD	Hocking River	TMDL Development	\$ 130,000
03(h)EPA-13	U.S. Geological Survey	Mad River	TMDL Development	\$ 85,000
03(h)EPA-15	NOACA	Rocky River	Watershed Planning	\$ 30,000
Total Federal 319(h) Implementation Funds Awarded				\$4,214,058

Table 1-4
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2004 Subgrant Recipients

Federal Grant # C997550004
Grant Closed 06/30/09

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
04(h)EPA-03	Rural Action, Inc.	Sunday Creek	Acid Mine Drainage Abatement	\$ 750,000
04(h)EPA-04	Village of Spring Valley	Little Miami River	Source Water Protection Plan	\$ 10,000
04(h)EPA-05	Village of Wilshire Hills	Tuscarawas River	Source Water Protection Plan	\$ 20,000
04(h)EPA-06	Clermont County SWCD	East Fork Little Miami River	Stream Restoration	\$ 334,970
04(h)EPA-07	Washington/Noble Joint SWCD	Duck Creek	Agricultural BMPs	\$ 122,753
04(h)EPA-08	Ohio Valley RC&D	White Oak Creek	Agricultural BMPs	\$ 230,254
04(h)EPA-09	Rural Action, Inc.	Monday Creek	Acid Mine Drainage Abatement	\$ 621,660
04(h)EPA-11	Ohio University-ILGARD	Raccoon Creek	Acid Mine Drainage Abatement	\$ 750,000
04(h)EPA-12	WSOS Community Action	Sandusky River	HSTS Replacement	\$ 999,926
Total Federal 319(h) Implementation Funds Awarded				\$3,839,563

Table 1-5
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2005 Subgrant Recipients

Federal Grant # C997550005
Grant Closed 09/30/09

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
05(h)EPA-05	ODNR-Natural Areas	Kokosing River	Watershed Planning	\$ 284,000
05(h)EPA-06	Franklin County Metroparks	Big Darby Creek	Levee Removal/Modification	\$ 230,000
05(h)EPA-07	Delaware County Health Dept.	Olentangy River	HSTS Replacement	\$ 110,977
05(h)EPA-08	Mahoning County SWCD	Mill Creek-Mahoning	Stream Restoration-Easements	\$ 392,600
05(h)EPA-09	OKI Regional Council of Govs	Mill Creek-Ohio River	Conservation Easements	\$ 498,010
05(h)EPA-10	Western Reserve Land Conservancy	Chagrin River	HSTS Replacement	\$ 400,000
05(h)EPA-11	Miami County Health Dept.	Stillwater River	Dam Removal	\$ 125,000
05(h)EPA-12	Friends of Alum Creek	Alum Creek	HSTS Replacement	\$ 305,700
05(h)EPA-13	Highland County SWCD	East Fork Little Miami	HSTS Replacement	\$ 233,367
05(h)EPA-14	TMACOG	Portage River	Source Water Protection Plan	\$ 389,138
05(h)EPA-15	City of Findlay	Blanchard River	Source Water Protection Plan	\$ 50,000
05(h)EPA-16	Fairfield County Commissioners	Hocking River	Source Water Protection Plan	\$ 51,000
05(h)EPA-17	Western Water Company	Little Miami River	Source Water Protection Plan	\$ 12,000
05(h)EPA-18	Greene County	Little Miami River	Source Water Protection Plan	\$ 18,071
05(h)EPA-19	Village of Wapakoneta	Auglaize River	Source Water Protection Plan	\$ 10,000
05(h)EPA-20	Village of West Jefferson	Big Darby Creek	Source Water Protection Plan	\$ 12,000
05(h)EPA-21	OKI Regional Council of Govs	Mill Creek-Ohio River	Source Water Protection Plan	\$ 69,000
05(h)EPA-23	City of Ashland	Mohican River	Source Water Protection Plan	\$ 13,200
05(h)EPA-24	Village of Orrville	Tuscarawas River	Source Water Protection Plan	\$ 20,000
05(h)EPA-26	The River Institute	Cuyahoga River	Stream Restoration	\$ 166,822
05(h)EPA-27	Summit County	Cuyahoga River	Stream Restoration	\$ 100,000
Total Federal 319(h) Implementation Funds Awarded				\$3,490,885

Table 1-6
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2006 Subgrant Recipients

Federal Grant # C997550006
Grant Closes 09/30/10

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
06(h)EPA-06	Miami County SWCD	Honey Creek	Stream Restoration	\$ 231,192
06(h)EPA-08	Little Beaver Creek Land Foundation	Little Beaver Creek	Agricultural BMPs	\$ 107,933
06(h)EPA-09	NEFCO	Cuyahoga River	Overwide Ditch Conversion	\$ 248,250
06(h)EPA-10	TMACOG	Ottawa River	Stream Restoration	\$ 204,970
06(h)EPA-11	Muskingum County SWCD	Salt Creek	Agricultural BMPs	\$ 96,625
06(h)EPA-17	Village of New Albany	Big Walnut Creek	Dam Removal	\$ 23,622
06(h)EPA-18	Cuyahoga County Health Dept.	Mill Creek	Stream Restoration	\$ 280,899
06(h)EPA-23	Five Rivers Metroparks	Stillwater River	Dam Removal/Modification	\$ 224,000
06(h)EPA-24	Greene County SWCD	Little Miami River	Stream Restoration	\$ 223,600
06(h)EPA-25	West Creek Preservation Committee	West Creek	Stream Restoration	\$ 187,500
06(h)EPA-27	City of Columbus	Olentangy River	Stream Restoration	\$ 416,063
06(h)EPA-28	Holden Arboretum	Chagrin River	Stream Restoration	\$ 150,000
06(h)EPA-29	Champaign County Commissioners	Mad River	Source Water Protection	\$ 268,815
06(h)EPA-31	Franklin County Metroparks	Big Darby Creek	Levee Removal/Modification	\$ 315,172
06(h)EPA-34	Village of Ottawa	Blanchard River	Source Water Protection Plan	\$ 19,970
06(h)EPA-35	Five Rivers Metroparks	Stillwater River	Dam Removal/Modification	\$ 176,568
06(h)EPA-36	River Institute-Beetree Run	Maumee River	Stream Restoration	\$ 280,523
06(h)EPA-37	Cuyahoga County Board of Health	Mill Creek	Education & Outreach (Signs)	\$ 9,100
06(h)EPA-38	St. Marys Township	Grand Lake St. Marys	Sediment Collection/Dredging	\$ 90,540
Total Federal 319(h) Implementation Funds Awarded				\$3,555,342

Table 1-7
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2007 Subgrant Recipients

Federal Grant # C997550007
 Grant Closed 06/30/12

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
07(h)EPA-06	Greene County Sanitary Engineer	Massie Creek	Stream & Wetland Restoration	\$ 410,755
07(h)EPA-08	Nature Conservancy	Big Darby Creek	Stream Restoration	\$ 500,000
07(h)EPA-09	Ohio University-ILGARD	Raccoon Creek	Acid Mine Drainage Abatement	\$ 312,478
07(h)EPA-10	Three Valley Conservation Trust	Indian Creek	Conservation Easements	\$ 250,000
07(h)EPA-13	The River Institute	Bath Creek	Stream Restoration	\$ 181,600
07(h)EPA-14	Scioto River Federation	Powderlick Run	Stream Restoration	\$ 443,700
07(h)EPA-15	The River Institute	Clover Groff	Stream Restoration	\$ 332,400
07(h)EPA-16	Rural Action, Inc.	Monday Creek	Acid Mine Drainage Abatement	\$ 156,666
07(h)EPA-18	Western Reserve Land Conservancy	Rocky River	Conservation Easements	\$ 292,000
07(h)EPA-21	Friends of the Lower Muskingum	Muskingum River	Source Water Protection	\$ 138,779
07(h)EPA-23	Warren County SWCD	Little Miami	Streambank Stabilization	\$ 125,000
07(h)EPA-24	City of Delaware	Olentangy	Stream Restoration	\$330,000
Total Federal 319(h) Implementation Funds Awarded				\$3,473,378

Table 1-8
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2008 Subgrant Recipients

Federal Grant # C997550008
Grant Closes 06/30/13

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
08(h)EPA-06	Bainbridge Township Trustees	Chagrin River	Dam Modification	\$ 294,900
08(h)EPA-11	Cuyahoga County SWCD	Euclid River	Dam Removal	\$ 235,428
08(h)EPA-12	Lake County Stormwater Mgmt.	Chagrin River	Stream Restoration	\$ 235,625
08(h)EPA-15	Rural Action, Inc.	Sunday Creek	Acid Mine Drainage Abatement	\$ 225,398
08(h)EPA-16	Five Rivers Metroparks	Stillwater River	Dam Removal & Restoration	\$ 499,980
08(h)EPA-17	Rural Action, Inc.	Huff Run	Acid Mine Drainage Abatement	\$ 159,572
08(h)EPA-18	Columbus Recreation & Parks	Clover Groff-Big Darby Creek	Stream Restoration	\$ 200,000
08(h)EPA-19	Nature Conservancy	Big Darby Creek	Stream Restoration	\$ 464,259
08(h)EPA-22	Greene County Sanitary Engineer	Little Miami-Massie Creek	Stream Restoration	\$ 382,700
08(h)EPA-26	The River Institute	Merritt Ditch-Maumee River	Stream Restoration	\$ 207,723
08(h)EPA-29	Village of Chagrin Falls	Chagrin River	Dam Removal	\$ 400,800
08(h)EPA-30	Ohio State University Extension	Statewide	National NPS Conference	\$ 54,720
08(h)EPA-31	Ohio State University	Statewide	Monitoring Protocol Tools	\$ 66,960
08(h)EPA-32	Ohio State University	Statewide	Nutrient Assimilative Modeling	\$ 50,000
08(h)EPA-33	Holmes County SWCD	Paint Creek	Agricultural BMP Project	\$ 114,963
08(h)EPA-34	City of Oxford	Four Mile	Dam Removal	Terminated
08(h)EPA-35	Franklin SWCD	Olentangy River	Agricultural BMP Projects	\$ 194,016
Total Federal 319(h) Implementation Funds Awarded				\$3,811,194

Table 1-9
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2009 Subgrant Recipients

Federal Grant # C997550009
Grant Closes 12/30/2014

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
09(h)EPA-07	Cuyahoga County Board of Health	Tinker's Creek	Stream Restoration	\$ 329,208
09(h)EPA-10	Washington County SWCD	Wolf Creek	Agricultural BMPs	\$ 0
09(h)EPA-11	Brown County SWCD	White Oak Creek	Agricultural BMPs	\$ 98,466
09(h)EPA-12	Mercer County SWCD	Grand Lake St. Marys	HSTS Replacement/Repair	\$ 191,650
09(h)EPA-13	City of Marysville	Mill Creek	Stream Restoration	\$ 322,434
09(h)EPA-14	Metroparks Serving Summit County	Cuyahoga River	Stream Restoration	\$ 249,984
09(h)EPA-15	Mill Creek Watershed Partners	Mill Creek-Ohio River	Stream & Wetland Restoration	\$ 317,420
09(h)EPA-16	City of Xenia	Little Miami River	Stream Restoration	\$ 238,500
09(h)EPA-17	Village of New Albany	Big Walnut Creek	Stream Restoration	\$ 101,742
09(h)EPA-18	ODNR/Parks & Recreation	Grand Lake St. Marys	Inland Lake Management	\$ 250,000
09(h)EPA-19	City of Reynoldsburg	Blacklick Creek	Wetlands Restoration	\$ 137,010
09(h)EPA-20	University of Toledo	Ottawa River	Stream Restoration	\$235,197
09(h)EPA-21	The Olander Park District	Tenmile Creek	Stream Restoration	\$185,112
09(h)EPA-22	Mill Creek Metroparks	Mill Creek-Mahoning	Stormwater Demonstration	\$55,353
09(h)EPA-23	ODNR/Parks & Recreation	Grand Lake St. Marys	Inland Lake Management	\$100,000
09(h)EPA-25	City of Lebanon	Little Miami River	Stormwater Demonstration	\$60,000
09(h)EPA-26	Bath Township	Cuyahoga River	Wetland Restoration	\$29,071
09(h)EPA-27	Liberty Township	Olentangy River	Stormwater Demonstration	\$123,910
09(h)EPA-28	ODNR- Parks & Recreation	Alum Creek	Stormwater Demonstration	\$47,157
Total Federal 319(h) Implementation Funds Awarded				\$3,072,214

Table 1-10
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2010 Subgrant Recipients

Federal Grant #C9975500010
Grant Closes 04/15/2015

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
10(h)EPA-07	City of Fremont	Sandusky River	Stream Restoration/Dam Removal	\$ 400,000
10(h)EPA-08	Geauga County Park District	Chagrin River	Stream Restoration/Dam Removal	\$ 400,000
10(h)EPA-10	Lake County Metroparks	Chagrin River	Stream Restoration/Dam Removal	\$ 349,584
10(h)EPA-11	Ohio University-ILGARD	W Branch Raccoon Creek	Acid Mine Drainage Abatement	\$ 393,875
10(h)EPA-14	City of Mason	Muddy Creek	Stream Restoration	\$ 258,000
10(h)EPA-17	City of Akron	Cuyahoga River	Stream Restoration/Dam Removal	\$ 400,000
10(h)EPA-18	West Creek Preservation Committee	West Creek	Stream & Wetland Restoration	\$ 394,000
10(h)EPA-20	Mercer County Commissioners	Grand Lake St. Marys	Inland Lake Management	\$ 484,000
10(h)EPA-21	City of Pickerington	Walnut Creek	Streambank Stabilization	\$ 139,537
Total Federal 319(h) Implementation Funds Awarded				\$3,218,996

Table 1-11
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2011 Subgrant Recipients

Federal Grant #C9975500011
 Grant Closes 10/15/2015

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
11(h)EPA-07	Bath Township Trustees	Yellow Creek	Wetlands and Floodplain Restoration	\$57,078
11(h)EPA-09	City of Springdale	Mill Creek	Streambank Restoration	\$362,920
11(h)EPA-10	Village of Mayfield	Chagrin River	Stormwater Demonstration	\$184,429
11(h)EPA-11	Ursulines of Brown County	Little Miami River	Dam Removal and Stream Restoration	\$367,805
11(h)EPA-12	Toledo Div. of Environmental Services	Maumee River	Stormwater Demonstration	\$98,420
11(h)EPA-14	City of Aurora	Chagrin River	Stream Restoration	\$478,075
11 (h)EPA-18	Columbus Public Utilities Division	Olentangy River	Stream Restoration	\$500,000
11(h)EPA-20	Westerville Parks & Recreation	Alum Creek	Wetlands Restoration & Stormwater BMP	\$131,328
11(h)EPA-21	Toledo Botanical Garden	Maumee River	Dam Removal and Stream Restoration	\$500,000
11(h)EPA-31	Medina County Park District	Chippewa Lake	Stream Restoration	\$169,000
11(h)EPA-47	Cuyahoga County SWCD	Rocky River	Dam Removal and Stream Restoration	Match Only
Total Federal 319(h) Implementation Funds Awarded				\$2,849,055

Grant # BUCK-11
 Grant Closes 04/15/2015

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
#Buck 11-01	ODNR-Ohio State Parks	Buckeye Lake	Stormwater Demonstration	\$100,000
#Buck 11-02	Buckeye Lake for Tomorrow	Buckeye Lake	Watershed Planning & Public Outreach	\$80,000
#Buck 11-03	Fairfield County SWCD	Buckeye Lake	Agricultural BMPs and Stormwater Demo	\$56,253
#Buck 11-04M	Village of Buckeye Lake	Buckeye Lake	Stormwater Demonstration	\$75,000
Total Federal 319(h) Implementation Funds Awarded				\$311,253

Table 1-12
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2012 Subgrant Recipients

Federal Grant #C9975500012
Grant Closes 10/15/2016

Project Number	Project Sponsor	Watershed	Type of Project	Grant Amount
12(h)EPA-03	Ohio State University Extension	Statewide	Public Outreach and Social Indicators	\$25,000
12(h)EPA-10	City of Wadsworth	Rocky River	Stormwater Demonstration Project	\$134,280
12(h)EPA-18	Greene County Park District	Little Miami River	Stream Restoration	\$226,962
12(h)EPA-19	City of Elyria	Black River	Stream Restoration	\$260,586
12(h)EPA-20	City of New Franklin	Tuscarawas River	Stormwater Demonstration Project	\$186,600
12(h)EPA-22	TMACOG	Swan Creek	Stream Restoration	\$80,741
12 (h)EPA-23	The River Institute	Bokes Creek	Stream Restoration	\$214,306
12(h)EPA-24	Huff Run Watershed Restoration Partnership	Huff Run	Acid Mine Drainage Abatement	\$326,900
12(h)EPA-25	Ohio Valley Conservation Coalition - Terminated	Salt Creek	Streambank Restoration	\$318,336
12(h)EPA-27	City of New Albany	Big Walnut Creek	Stream Restoration	\$230,885
12(h)EPA-28	Franklin County Metroparks	Blacklick Creek	Streambank Stabilization	\$308,220
12(h)EPA-33	Metroparks Serving Summit County	Cuyahoga River	Stream Restoration	\$326,900
12(h)EPA-36	Holden Arboretum	Chagrin River	Stream Restoration	\$163,450
12(h)EPA-WRRSP	City of Columbus	Olentangy River	Dam Removal & Stream Restoration	Match Only
Total Federal 319(h) Implementation Funds Awarded				\$2,803,166

Table 1-13
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2013 Subgrant Recipients

Federal Grant #C9975500013
Grant Closes 06/30/2016

Project Number	Project Sponsor	Watershed	Type of Project	Total 319 Funds Awarded
13(h)EPA-04	Ohio State University Extension	N/A	Social Indicators	\$25,000
13(h)EPA-06	Anderson Township Park District	Little Miami	Stormwater	\$156,814
13(h)EPA-08	Clermont County Engineer's Office	O'Bannon Creek	Stream Restoration	\$96,690
13(h)EPA-09	City of Willoughby	Chagrin River	Stream Restoration	\$115,701
13(h)EPA-12	City of Barberton	Upper Tuscarawas	Stormwater	\$112,500
13(h)EPA-14	Northeast Shores Development Corp.	Euclid Creek	Stormwater	\$58,602
13(h)EPA-16	City of Medina	Rocky River	Stream Restoration	\$197,075
13(h)EPA-19	City of Gahanna	Rocky Fork	Stream Restoration	\$202,917
13(h)EPA-20	Mercer County Commissioners	Grand Lake Saint Mary	Inland Lake Management	\$241,500
13(h)EPA-21	City of Hilliard	Hellbranch Run	Stream Restoration	\$232,916
13(h)EPA-22	Mill Creek Watershed Council	Mill Creek (Ohio R)	Stormwater	\$198,886
TOTALS				\$1,638,601

Table 1-14
Ohio Environmental Protection Agency
Supplemental FY13 Section 319(h) Subgrants Grants
Subgrants Awarded during FFY 2013

Project Number	Project Sponsor	Watershed	Type of Project	Total 319 Funds Awarded
13(h)EPA-S07 09(h)EPA-30S	Akron Zoological Park	Cuyahoga River	Stormwater	\$71,290
13(h)EPA-S12 09(h)EPA-31S	Lake County Stormwater	Grand River	Stormwater	\$100,000
13(h)EPA-S05 10(h)EPA-22S	City of Ravenna	Breakneck Creek	Stormwater	\$100,000
13(h)EPA-S11 10(h)EPA-24S	Holden Arboretum	Chagrin River	Stream Restoration	\$100,000
13(h)EPA-S16 10(h)EPA-25S	Butler County Water & Sewer	Mill Creek	Stream Restoration	\$100,000
13(h)EPA-S09 11(h)EPA-32S	West Creek Preservation Committee	Big Creek	Stormwater	\$68,000
13(h)EPA-S13 11(h)EPA-33S	City of Pepper Pike	Chagrin River	Stormwater	\$51,150
13(h)EPA-S17 11(h)EPA-34S	City of Reynoldsburg	Blacklick Creek	Stormwater	\$80,138
13(h)EPA-S06 11(h)EPA-35S	Village of Brooklyn Heights	West Creek	Stormwater	\$18,452
TOTALS				\$689,030

Table 2-1
Ohio Environmental Protection Agency
STATE Surface Water Improvement (SWIF) Grants
Subgrants Closed Out during FFY 2013

Project Number	Project Sponsor	Total SWIF Amount Awarded	Total SWIF Expenditures	% Spent	Date Closed
10SWIF-066	The Wilds	\$141,736	\$140,155	97.90%	11/30/2013
10SWIF-094	Chester Township	\$77,295	\$77,295	100.00%	11/30/2012
10SWIF-145	Liberty Township	\$108,991	\$106,419	97.60%	12/31/2012
10SWIF-CUY-027	Broadview Heights	\$219,727	\$219,727	100.00%	6/30/2013
10SWIF-CUY-067	Gates Mills	\$87,525	\$75,805	86.61%	1/31/2013
10SWIF-GLRI-CUY-068	Hunting Valley	\$137,500	\$108,173	78.67%	1/31/2013
10SWIF-GLRI-CUY-123	Cuyahoga County SWCD	\$147,270	\$147,270	100.00%	2/15/2013
10SWIF-GLRI-CUY-173	North Olmsted	\$209,431	161,659	77.00%	9/20/2013
TOTALS		\$1,129,475	\$873,492	94%	

Table 2-2
Ohio Environmental Protection Agency
FY12 STATE Surface Water Improvement (SWIF) Grants
Projects Active as of 8/1/13

Project Number	Project Sponsor	Type of Project	Total SWIF Amount Awarded
12SWIF-05	City of Springfield	Stormwater Demonstration	\$15,000
12SWIF-06	Village of Boston Heights	Stormwater Demonstration	\$78,900
12SWIF-09	Clermont County Park District	Wetland Restoration	\$85,800
12SWIF-10	City of Cuyahoga Falls	Stream Restoration	\$89,887
12SWIF-11	City of Greenville	Stormwater Demonstration	\$11,800
12SWIF-12	City of Gahanna	Stormwater Demonstration	\$60,000
12SWIF-16	City of Green	Wetlands Restoration	\$100,000
12SWIF-24	Chardon Township	Stream Restoration	\$96,070
12SWIF-25	City of Painesville	Stormwater Demonstration	\$63,600
12SWIF-31	City of Willoughby Hills	Stormwater Demonstration	\$80,750
12SWIF-36	Cincinnati Park Board	Stormwater Demonstration	\$72,000
12SWIF-37	Perkins Township	Stormwater Demonstration	\$88,480
12SWIF-39	City of Forest Park	Stream Restoration	\$49,157
12SWIF-42	Hamilton County Park District	Stormwater Demonstration	\$42,515
12SWIF-48	Village of Kirtland Hills	Stormwater Demonstration	\$50,000
12SWIF-50	Village of Fairport Harbor	Stormwater Demonstration	\$44,200
TOTALS			\$1,028,159

Table 2-3
Ohio Environmental Protection Agency
Division of Surface Water – Nonpoint Source Program
FY12 Cuyahoga County SWIF-GLRI Grants
Grants closed out in FY13 through 9/30/13

Project Number	Project Sponsor	Total SWIF Amount Awarded	Total SWIF Expenditures	% Spent	Date Closed
10SWIF-CUY-27	Broadview Heights	\$219,727	\$219,727	100.00%	6/30/2013
10SWIF-CUY-67	Gates Mills	\$87,525	\$75,805	86.61%	1/31/2013
10SWIF-GLRI-CUY-68	Hunting Valley	\$137,500	\$108,173	78.67%	1/14/2013
10SWIF-GLRI-CUY-123	Cuyahoga County SWCD	\$147,270	\$147,270	100.00%	2/15/2013
10SWIF-GLRI-CUY-173	North Olmsted	\$208,931	\$161,659	77.40%	9/30/2013
TOTAL		\$800,953	\$712,634	88.54%	

Table 2-4
Ohio Environmental Protection Agency
Division of Surface Water – Nonpoint Source Program
FY12 Cuyahoga County SWIF-GLRI Grants
ACTIVE as of 8/01/13

Project Number	Project Sponsor	Type of Project	Total GLRI- SWIF Amount Recommended
12SWIF-CUY-02	City of South Euclid	Stormwater Demonstration	\$166,015
12SWIF-CUY-03	Orange Village	Stormwater Demonstration	\$162,270
12SWIF-CUY-07	Moreland Hills	Stream Restoration	\$144,500
12SWIF-CUY-08	Cleveland Metroparks	Stormwater Demonstration	\$85,000
12SWIF-CUY-09	City of Parma	Stormwater Demonstration	\$149,164
12SWIF-CUY-16	City of Lakewood	Stormwater Demonstration	\$150,000
12SWIF-CUY-17	Olmsted Township	Stormwater Demonstration	\$45,807
12SWIF-CUY-18	Village of Pepper Pike	Stormwater Demonstration	\$84,354
12SWIF-CUY-19	City of Independence	Stormwater Demonstration	\$72,850
12SWIF-CUY-20	Village of Brooklyn Heights	Stormwater Demonstration	\$84,300
12SWIF-CUY-22	City of Westlake	Stormwater Demonstration	\$200,000
12SWIF-CUY-23	Chagrin Falls	Stormwater Demonstration	\$73,000
12GLRI-CUY-06	Ursulines College	Stream Restoration	\$100,810
12GLRI-CUY-10	City of Euclid	Stormwater Demonstration	\$122,000
12GLRI-CUY-11	Village of Glenwillow	Stormwater Demonstration	\$53,358
12GLRI-CUY-14	City of Rocky River	Stormwater Demonstration	\$170,354
12GLRI-CUY-21	City of Richmond Heights	Stormwater Demonstration	\$187,500
TOTALS			\$2,051,282

Table 2-5
Ohio Environmental Protection Agency
12 GLRI Lucas County Grant

Project Number	Project Sponsor	Type of Project	Total SWIF Amount Awarded
12GLRI-LUCA-02	ODNR-Maumee Bay	Stormwater Demonstration	\$10,300
12GLRI-LUCA-04	Village of Whitehouse	Stormwater Demonstration	\$114,000
12GLRI-LUCA-05	Lucas County Engineer	Stormwater Demonstration	\$41,300
12GLRI-LUCA-06	City of Oregon	Stormwater Demonstration	\$105,758
12GLRI-LUCA-07	Lucas County SWCD	Stormwater Demonstration	\$140,000
12GLRI-LUCA-08	University of Toledo	Stormwater Demonstration	\$35,992
12GLRI-LUCA-10	Metroparks of the Toledo Area	Stormwater Demonstration	\$91,375
12GLRI-LUCA-11	Village of Holland	Stormwater Demonstration	\$50,000
12-LUCA-03	Toledo Public Utilities Dept.	Stormwater Demonstration	\$142,000
12LUCA-12	Toledo Div. of Environmental Services	Stormwater Demonstration	\$8,000
TOTALS			\$1,028,159

Table 2-6
Ohio Environmental Protection Agency
12 GLRI Upper Blanchard Watershed Grant

Project Number	Project Sponsor	Type of Project	Total SWIF Amount Awarded
12GLRI-BLAN-01	Hancock County SWCD	Sediment/Phosphorus Reduction in Lye Creek	\$336,574
12GLRI-BLAN-01	Hancock County Health Department	Sediment/Phosphorus Reduction in Lye Creek	\$53,995
TOTALS			\$390,569

Table 2-7
Ohio Environmental Protection Agency
12 GLRI Powell Creek (Defiance County) Grant

Project Number	Project Sponsor	Type of Project	Total SWIF Amount Awarded
12GLRI-POWL-01	Defiance County SWCD	Nutrient Reduction	\$350,000
12GLRI-POWL-02	Defiance County Health Department	Home Septic project	\$95,000
TOTALS			\$445,000

Table 2-8
Ohio Environmental Protection Agency
11 GLRI Lake Erie Nutrient Reduction (Crawford County) Grant

Project Number	Project Sponsor	Type of Project	Total SWIF Amount Awarded
NUTR11-GLRI-01	Crawford County SWCD	Agricultural BMPs	
NUTR11-GLRI-02	Sandusky River Coalition	Education and Outreach	
NUTR11-GLRI-01	Ohio State University Extension	Education and Outreach	
NUTR11-GLRI-04	Crawford Park District	Nutrient Reduction	\$65,000
TOTALS			\$65,000

Table 3-1
Ohio Environmental Protection Agency
NPS Pollution LOAD REDUCTIONS
Annual Load Reductions-by Project Year since FFY2001*

Project Year	Nitrogen (lbs./year)	Phosphorus (lbs./year)	Sediment (tons/year)	HSTS (gallons/day)
FFY 2001	294,422	133,404	106,899	66,520
FFY 2002	184,095	52,667	30,195	19,320
FFY 2003	19,771	7,488	50	164,150
FFY 2004	19,866	5,130	1,039	62,235
FFY 2005	18,679	7,494	3,392	129,960
FFY 2006	5,787	4,778	9,398	0
FFY 2007	5,057	2,580	2,425	0
FFY 2008	10,128	5,091	4,900	0
FFY 2009	36,145	23,875	11,482	0
FFY 2010	2,274	1,193	1,373	0
FFY 2011	4,210	2,424	2,102	0
FFY 2012	229	114	114	0
FFY 2013 est.	2,141	781	734	0
FFY 2013 Supplement est.	48,691	3,056	1,794	0
TOTAL	651,495	250,075	175,897	442,185

*All load reductions are updated and current through project semi-annual technical reports received through July 2013

FFY2001 through FFY2008 load reductions are FINAL for those grant cycles (final reports have been received for all sub-grant projects for those cycles).

Table 3-2
FINAL – 03/03/08
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2001 Projects

Federal Grant #C997550001
Grant Closed 12/31/2004

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
01(h)EPA-16	Rivers Unlimited	85	43	597	0
01(h)EPA-19	Paint Creek Joint SWCD	228,314	106,678	91,593	4,680
01(h)EPA-20	Ohio Valley RC&D	15,826	5,995	0	24,120
01(h)EPA-22	Scioto River Federation	7,956	2,652	1,326	0
01(h)EPA-24	Miami County Health Department	1,471	557	0	23,800
01(h)EPA-25	Seneca County Health Department	959	361	0	7,920
01(h)EPA-28	Paint Creek Joint SWCD	31,696	13,058	9,715	0
01(h)EPA-29	Paint Creek Joint SWCD	8,114	4,060	3,668	6,000
		294,422	133,404	106,899	66,520

Table 3-3
FINAL UPDATED – 09/20/11
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2002 Projects

Federal Grant #C997550002
Grant Closed 12/31/2005

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
02(h)EPA-06	Huron County SWCD	1,792	855	4	15,720
02(h)EPA-07	Rural Action, Inc.	433	164	0	3,600
02(h)EPA-08	Seneca County SWCD	56,792	29,113	19,166	0
02(h)EPA-11	OSU Extension Service	48,909	5,185	518	0
02(h)EPA-12	Ducks Unlimited	37,322	6,533	36	0
02(h)EPA-13	Greene County SWCD	22,017	10,493	10,451	0
02(h)EPA-14	Summit County Department of Environmental Services	13,797	0	0	0
02(h)EPA-15	Mill Creek Inc.	3,033	324	20	0
		184,095	52,667	30,195	19,320

Table 3-4
FINAL – 03/03/08
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2003 Projects

Federal Grant #C997550003
Grant Closed 06/30/2006

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
03(h)EPA-04	Darke County Health Department	17,748	6,722	0	147,350
03(h)EPA-05	Cuyahoga County Health Department	2,023	766	0	16,800
03(h)EPA-07	City of Kent	0	0	50	0
		19,771	7,488	50	164,150

Table 3-5
FINAL UPDATED – 09/20/11
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2004 Projects

Federal Grant #C997550004
Grant Closed 06/30/2007

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
04(h)EPA-06	Clermont County SWCD	797	362	250	2,250
04(h)EPA-07	Washington County SWCD	0	0	48	0
04(h)EPA-08	Ohio Valley RC&D	12,825	2,403	741	7,920
04(h)EPA-12	WSOS Community Action Organization	6,244	2,365	0	51,840
		19,866	5,130	1,039	62,235

Table 3-6
FINAL – 09/20/11
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2005 Projects

Federal Grant #C997550005
Grant Closed 09/30/2008

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
05(h)EPA-06	Franklin County Metroparks	0	0	1,680	0
05(h)EPA-07	Delaware County Health Department	10,060	3,810	0	87,120
05(h)EPA-08	Mahoning County SWCD	40	21	21	0
05(h)EPA-11	Miami County Health Department	867	328	0	7,200
05(h)EPA-09	OKI Council of Governments-Mill Creek Watershed Project	1,043	522	454	0
05(h)EPA-12	Friends of Alum Creek & Tributaries	0	0	126	0
05(h)EPA-13	Highland County SWCD	1,040	394	0	8,640
05(h)EPA-14	TMACOG	3,253	1,231	0	27,000
05(h)EPA-26	The River Institute	1,186	593	516	0
05(h)EPA-27	Summit County	1,190	595	595	0
		18,679	7,494	3,392	129,960

Table 3-7
FINAL-09/20/11
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2006 Projects

Federal Grant #C997550006
Grant Closed 10/31/2009

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
06(h)EPA-06	Miami County Soil & Water Conservation District	75	37	37	0
06(h)EPA-08	Little Beaver Creek Land Foundation	0	0	742	0
06(h)EPA-09	Northeast Ohio Four County Regional Planning & Development Organization	170	85	85	0
06(h)EPA-11	Muskingum County Soil & Water Conservation District	3,689	3,723	7,008	0
06(h)EPA-18	Cuyahoga County Board of Health	500	255	255	0
06(h)EPA-23	Five Rivers MetroParks	135	67	67	0
06(h)EPA-24	Greene County Soil & Water Conservation District	420	210	210	0
06(h)EPA-25	West Creek Preservation Committee	185	91	95	0
06(h)EPA-28	Holden Arboretum	0	0	600	0
06(h)EPA-31	Columbus & Franklin County MetroPark District	13	11	1	0
06(h)EPA-35	Five Rivers MetroParks	135	67	67	0
06(h)EPA-36	The River Institute	382	190	190	0
06(h)EPA-38	St. Marys Township	83	42	41	0
		5,787	4,778	9,398	0

Table 3-8
FINAL – 07/11/12
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2007 Projects

Federal Grant #C997550007
Grant Closed 06/30/2010

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
07(h)EPA-06	Greene County Sanitary Engineer	1,589	838	657	
07(h)EPA-08	The Nature Conservancy	1,480	738	738	0
07(h)EPA-13	The River Institute-Bath Township	230	114	114	0
07(h)EPA-15	The River Institute-Clover Groff	394	196	196	0
07(h)EPA-23	Warren County Soil & Water Conservation District	68	46	92	0
07(h)EPA-24	City of Delaware	1,296	648	628	0
		5,057	2,580	2,425	0

Table 3-9
FINAL – 07/20/13
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2008 Projects

Federal Grant #C997550008
Grant Closes 12/31/2011

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
08(h)EPA-06	Bainbridge Twp Trustees	556	278	278	0
08(h)EPA-11	Cuyahoga County SWCD	178	89	89	0
08(h)EPA-12	Lake County	100	50	50	0
08(h)EPA-16	Five Rivers MetroParks	135	67	67	0
08(h)EPA-18	City of Columbus/Recreation & Parks	553	277	276	0
08(h)EPA-19	The Nature Conservancy	600	300	300	0
08(h)EPA-22	Greene County Sanitary Eng. Dept.	1,412	734	583	0
08(h)EPA-24	Scioto River Valley Coalition	290	144	144	0
08(h)EPA-26	The River Institute	496	248	248	0
08(h)EPA-29	Village of Chagrin Falls	935	468	468	0
08(h)EPA-33	Holmes County SWCD	4,736	2,368	2,368	0
08(h)EPA-34	City of Oxford	15	8	8	0
08(h)EPA-35	Franklin County SWCD	122	60	21	0
		10,128	5,091	4,900	0

Table 3-10
Updated – 07/20/13
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2009 Projects

Federal Grant #C997550009
Grant Closes 12/30/2014

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
09(h)EPA-07	Cuyahoga County Board of Health	340	170	170	0
09(h)EPA-10	Washington County SWCD	21,390	10,990	9,090	0
09(h)EPA-11	Brown County SWCD	888	7,623	483	0
09(h)EPA-13	City of Marysville	12	5	5	0
09(h)EPA-14	Metro Parks serving Summit County	472	402	804	0
09(h)EPA-16	City of Xenia	250	125	150	0
09(h)EPA-17	Village of New Albany	58	29	25	0
09(h)EPA-15	Mill Creek Watershed Partners	9,153	26	300	0
09(h)EPA-12	Mercer County SWCD	2,215	1,150	0	0
09(h)EPA-19	City of Reynoldsburg	685	349	207	0
09(h)EPA-18	ODNR/Parks & Recreation Division	0	1,500	0	0
09(h)EPA-23	ODNR/Parks & Recreation Division	0	1,259	0	0
09(h)EPA-22	Mill Creek MetroParks	2	0	0	0
09(h)EPA-20	University of Toledo	0	0	80	0
09(h)EPA-21	Olander Park System	300	125	53	0
09(h)EPA-26	Bath Township Trustees	230	114	114	0
09(h)EPA-28	ODNR/Parks & Recreation Division	15	3	1	0
09(h)EPA-27	Liberty Township	134	4	0	0
09(h)EPA-29	Ohio State University Chadwick Arboretum & Learning Gardens	1	1	0	0
		36,145	23,875	11,482	0

Table 3-11
Updated – 07/20/13
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2010 Projects

Federal Grant #C997550010
Grant Closes 04/15/2015

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
10(h)EPA-07	City of Fremont	1,190	595	595	0
10(h)EPA-08	Geauga County Park District	506	235	235	0
10(h)EPA-10	Lake County Metroparks	150	150	300	0
10(h)EPA-11	Ohio University	0	0	0	0
10(h)EPA-14	City of Mason	3	1	1	0
10(h)EPA-17	City of Akron	9	4	4	0
10(h)EPA-18	West Creek Preservation Committee	39	20	50	0
10(h)EPA-20	Mercer County Commissioners	377	188	188	0
10(h)EPA-21	City of Pickerington	0	0		0
		2,274	1,193	1,373	0

Table 3-12
UPDATED –07/20/13
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2011 Projects

Federal Grant #C997550010
Grant Closes 10/15/2015

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
11(h)EPA-07	Bath Township Trustees	230	114	114	0
11(h)EPA-09	City of Springdale	211	105	105	0
11(h)EPA-10	Mayfield Village	1	0	1	0
11(h)EPA-11	Ursulines of Brown County	0	0	0	0
11(h)EPA-12	Toledo Div of Environmental Services	52	6	0	0
11(h)EPA-14	City of Aurora	475	138	138	0
11(h)EPA-18	Columbus Public Utilities Department	0	0	0	0
11(h)EPA-20	Westerville Parks and Recreation	64	23	7	0
11(h)EPA-21	Toledo Botanical Garden	2,677	1,338	1,338	0
11(h)EPA-31	Medina County Park District	500	300	200	0
11(h)EPA-47	Cuyahoga County SWCD	0	0	0	0
		4,510	2,024	1,903	0

Table 3-13
UPDATED – 07/20/13
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2012 Projects

Federal Grant #C997550012
Grant Closes 10/15/2016

Project Number	Project Sponsor	Cumulative Load Reductions to Date			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
12(h)EPA-10	City of Wadsworth	0	0	0	0
12(h)EPA-18	Greene County Park District	0	0	0	0
12(h)EPA-19	City of Elyria	0	0	0	0
12(h)EPA-20	City of New Franklin	0	0	0	0
12(h)EPA-22	TMACOG	0	0	0	0
12 (h)EPA-23	The River Institute	0	0	0	0
12(h)EPA-24	Huff Run Watershed Restoration Partnership	0	0	0	0
12(h)EPA-25	Ohio Valley Conservation Coalition	0	0	0	0
12(h)EPA-27	City of New Albany	0	0	0	0
12(h)EPA-28	Franklin County Metroparks	229	114	114	0
12(h)EPA-33	Metroparks Serving Summit County	0	0	0	0
12(h)EPA-36	Holden Arboretum	0	0	0	0
		229	114	114	0

Table 3-14
UPDATED – 07/20/13
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FY13 Projects - Estimated

Federal Grant #C997550013
Grant Closes 06/30/2016

Project Number	Project Sponsor	ESTIMATED Load Reductions Expected			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
13(h)EPA-06	Anderson Township Park District	49%	65%		0
13(h)EPA-08	Clermont County Engineer's Office	230	114	17	0
13(h)EPA-09	City of Willoughby	29.5	14.7	14.7	0
13(h)EPA-12	City of Barberton, Ohio	0.2249	0.0298	0.0058	0
13(h)EPA-14	Waterloo Neighborhood Northeast Shores Development Corp.	2	0	470	0
13(h)EPA-16	City of Medina	1561	321	94	0
13(h)EPA-19	City of Gahanna	141.4	75.6	75.6	0
13(h)EPA-20	Mercer County Commissioners		170		0
13(h)EPA-21	City of Hilliard	158	83	61	0
13(h)EPA-22	Mill Creek Watershed Council of Comms	19	3	2.1	0
		2,141	781	734	0

Supplemental FFY13 Projects

Project Number	Project Sponsor	ESTIMATED Load Reductions Expected			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
13(h)EPA-S07	Akron Zoological Park	4	1	0.5	0
13(h)EPA-S12	Lake County Stormwater Mgmt. Dept.	47,670	2,704	1,540	0
13(h)EPA-S05	City of Ravenna	3.0	0	0.178	0
13(h)EPA-S11	Holden Arboretum	12	6	6	0
13(h)EPA-S16	Butler County Water & Sewer	520	260	227	0
13(h)EPA-S09	West Creek Preservation Committee	446	75	17.9	0
13(h)EPA-S13	City of Pepper Pike	2.5	0.7	0.87	0
13(h)EPA-S17	City of Reynoldsburg	25.9	8.1	1.4	0
13(h)EPA-S06	Village of Brooklyn Heights	8	1	0.5	0
		48,691	3,056	1,794	0

Table 4.1
Ohio Environmental Protection Agency
Total Maximum Daily Load (TMDL) Status

Updated through 9/30/13

- Cuyahoga River—Approved 2000
- Rocky River—Approved 2001
- Little Miami River—Approved 2002
- Bokes Creek—Approved 2003
- Sugar Creek—Approved 2003
- Raccoon Creek—Approved 2003
- Mill Creek (Scioto Basin)—Approved 2003
- East Fork Duck Creek—Approved 2003
- Cuyahoga River (Tinker’s Creek)—Approved 2003
- Stillwater River—Approved 2004
- Auglaize River—Approved 2004
- Sandusky River—Approved 2004
- Mill Creek—Approved 2005
- Lake Erie Tributaries (below Huron to above Vermillion River)—Approved 2005
- Monday Creek—Approved 2005
- Big Walnut Creek—Approved 2005
- Lake Erie Tributaries (east of Cuyahoga to west of Grand River)—Approved 2005

- West Branch Huron River—Approved 2005
- Little Beaver Creek—Approved 2005
- Sunday Creek—Approved 2006
- Big Darby Creek—Approved 2006
- Toussaint Creek—Approved 2006
- Wakatomika Creek—Approved 2006
- Sugar Creek—Approved 2007
- Chagrin River—Approved 2007
- Olentangy River—Approved 2007

- Grand Lake St. Mary’s— Approved 2007
- Leading Creek—Approved 2008
- Black River—Approved 2008
- Nimishillen Creek—Approved 2008
- Powell Creek—Approved 2008
- Blanchard River—Approved 2009
- Salt Creek—Approved 2009
- Tuscarawas River—Approved 2009
- Stillwater River (revised)—Approved 2009
- Hocking River—Approved 2009
- Swan Creek—Approved 2010
- Mad River—Approved 2010
- White Oak Creek—Approved 2010
- Twin Creek—Approved 2010
- Yellow Creek—Approved 2010
- Walnut Creek—Approved 2010
- Salt Creek—Approved 2011
- Lower Little Miami River—Approved 2011
- Portage River—Approved 2011
- Upper Mahoning River—Approved 2011
- Scioto Brush Creek—Approved 2011
- Lower Grand River—Approved 2012
- Upper Great Miami River—Approved 2012
- Paint Creek—Approved 2012
- Maumee River (lower) Tribs & Lake Erie Tribs— Approved 2012

- Grand (upper)—Approved 2013
- Moxahala Creek—Approved 2013

Table 4.2
Ohio Environmental Protection Agency
State Fully Endorsed Watershed Plans
 Updated through 9/30/13

- Arcola Creek
- Black River
- Blacklick Creek
- Bokes Creek
- Chagrin River
- Doan Brook
- Duck Creek
- Euclid Creek
- Federal Creek
- Headwaters (East Fork Little Miami River)
- Honey Creek
- Honey Creek (Sandusky)
- Huff Run
- Indian Lake
- Kokosing River
- Lake Tributaries East Fork Little Miami River
- Leading Creek
- Little Beaver
- Lower Alum Creek
- Lower Big Walnut
- Lower East Fork Little Miami River
- Lower Mad River
- Lower Olentangy
- Meigs Creek
- Middle Cuyahoga River
- Middle Fork East Fork Little Miami River
- Mill Creek (Mahoning River)
- Mill Creek (Ohio River)
- Mill Creek (Scioto River)
- Monday Creek
- Nimishillen Creek
- Old Woman Creek
- Outlet / Lye Creek
- Paint Creek
- Portage River
- Raccoon Creek Headwaters
- Riley Creek
- Rocky Fork
- Rocky River
- Salt Creek
- Stillwater River
- Stonelick Creek
- Sunday Creek
- Tiffin (Sandusky)
- Tinkers Creek
- Todds Fork
- Twin Creek
- Upper Big Walnut Creek
- Upper Grand River
- Upper Olentangy
- Upper Scioto
- Wabash/Grand Lake St Marys
- West Creek
- White Oak Creek
- Wolf Creek
- **In Progress in 2013**
 - Captina Creek
 - Southern Watershed (Lower Muskingum River)
 - Upper Maumee River
 - Yellow Creek

Table 4.3
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
State Conditionally Endorsed Watershed Plans
Conditionally endorsed plans do not meet all 9-required elements
Updated through 9/30/13

Duck & Otter Creeks

East Fork Little Miami River

Headwaters Sugar Creek

Little Beaver Creek

Lower Grand River

Lower Maumee River

Mentor Marsh

Raccoon Creek

Sunday Creek

Twin Creek

Upper Mad River

