



FFY2010 Nonpoint Source Management Program Division of Surface Water

Introduction: During FFY2010, Ohio EPA received \$5,864,800 in federal section 319(h) grant funds under provisions of US EPA Grant # C9-97550010-1 to implement Ohio's Nonpoint Source (NPS) 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 through 2010. 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 EPA's NPS Program supports implementation of several statewide water quality initiatives. These include the state's overall goal of having 80% of Ohio waters in attainment of their designated aquatic life use by 2010. In turn, these strategic priorities enhance Ohio's NPS program by:

1. Effective local project implementation and efficient state program administration
2. Improving local and state program capacity
3. Aligning grant resources to TMDL and watershed plan implementation
4. Funding projects that eliminate impairments and restore impaired waters rather than simply focusing on theoretical nonpoint source load reductions.

Activities successfully implemented during FFY10 to support and/or enhance Ohio EPA's Nonpoint Source Program include:

Grants Management & Administration: A critical component of Ohio's nonpoint source program is the effective management of more than \$3 million awarded annually in section 319(h) subgrants. During this reporting period, Ohio EPA also implemented the new Surface Water Improvement Fund grants (SWIF) that provides more than \$3 million in additional local subgrant funding for nonpoint source, stream restoration and innovative stormwater management grants. Grants management activities conducted by Ohio EPA are designed to insure appropriate alignment of section 319(h) grant funding with implementation of TMDLs, endorsed local watershed action plans and other watershed restoration activities conforming to federal program guidance. SWIF grant funds are similarly aligned to insure that implementation of Ohio's nonpoint source management program is having the maximum effect in reducing impairments to Ohio's streams from nonpoint source pollution.

During the past 12 months, continued improvements to Ohio EPA's grant management practices have been made. Specifically, during FFY10 Ohio EPA:

- **New Initiative:** Ohio's Nonpoint Source Program implemented the first Surface Water Improvement Fund (SWIF) grants program during the reporting period. The SWIF program enhances Ohio EPA's nonpoint source efforts by providing more than \$3 million in additional

funding available for locally implemented nonpoint source, stream restoration and innovative stormwater management projects. During 2010, we received 172 applications requesting more than \$20 million in grant funds. 32 SWIF grants were awarded totaling \$3.45 million for the following types of activities:

- 6 Stream restoration projects
- 4 Wetlands restoration projects
- 20 Stormwater demonstration projects
- 1 Agricultural BMP project
- 1 Inland lakes management project

Detailed project summaries for each of the 2010 SWIF grant funded projects are available at <http://www.epa.state.oh.us/dsw/nps/swif.aspx>.

- ***New Initiative:*** Ohio EPA successfully leveraged \$1.5 million in Surface Water Improvement Fund grants to attract a \$1 million Great Lakes Restoration Initiative grant from US EPA Great Lakes National Program Office. Funds are being used primarily to increase the number of Cuyahoga County based SWIF projects.

Detailed project summaries for the FFY2010 GLRI/SWIF Cuyahoga County grant funded projects are available at <http://www.epa.state.oh.us/dsw/nps/swif.aspx>.

- Ohio EPA NPS grants staff currently administers 75 active subgrants totaling more than \$12 million in grant funding. Of these, 43 are active section 319 subgrant funded projects spanning five different grant cycles and 32 are newly funded SWIF project subgrants.
- Ohio EPA's NPS Program staff continues to close out subgrants in a timely and efficient manner. During the reporting period, 22 local subgrants were closed from four previous grant cycles. We continue to observe improvements in local subgrant close-outs since enacting a policy that discourages grant extensions. The following subgrants were closed during the reporting period:

- #05(h)EPA-05: ODNR Scenic Rivers-Kokosing River Project
- #05(h)EPA-26: The River Institute
- #06(h)EPA-06: Miami County SWCD
- #06(h)EPA-08: Little Beaver Creek Land Foundation
- #06(h)EPA-09: NEFCO-Potter Creek
- #06(h)EPA-10: TMACOG-Ottawa River Dam Removal
- #06(h)EPA-11: Muskingum County SWCD
- #06(h)EPA-18: Cuyahoga County Health Department-Mill Creek
- #06(h)EPA-23: Five Rivers Metroparks-Stillwater River Dam Removal
- #06(h)EPA-25: West Creek Preservation Society
- #06(h)EPA-27: City of Columbus
- #06(h)EPA-28: Holden Arboretum
- #06(h)EPA-31: Columbus/Franklin County Metroparks
- #06(h)EPA-33: Ohio State University Research Foundation
- #06(h)EPA-34: Village of Ottawa
- #06(h)EPA-35: Five Rivers Metroparks-Stillwater Dam Removal
- #07(h)EPA-02: ODNR-Soil & Water Conservation Core Program
- #07(h)EPA-04: ODNR-Soil & Water Conservation Watershed Coordinator Grants
- #07(h)EPA-16: Rural Action—Shawnee Steel Slag Leach Bed
- #08(h)EPA-03: ODNR Watershed Coordinator Grant Program
- #08(h)EPA-05: Ohio State University Extension
- #09(h)EPA-10: Washington County SWCD-Wolf Creek Project

- ***New Initiative:*** Completed a substantial overhaul of the FFY11 Section 319(h) Request for Proposals, grant application forms, program guidelines and grant review criteria. The RFP

was distributed on February 5, 2010 with applications due to Ohio EPA by 5/14/10. The RFP resulted in 41 applicants requesting more than \$10 million in FFY11 section 319(h) grant funds. Proposals were received from the following:

- 21 local governments
- 9 park districts
- 6 non-profit organizations
- 3 soil & water conservation districts
- 2 universities

The revised FFY11 section 319(h) RFP resulted in the submission of the following types of proposed projects:

- 3 agricultural BMPs
 - 3 dam removals
 - 4 inland lake management projects
 - 12 stormwater demonstrations
 - 8 stream restorations
 - 5 streambank restorations
 - 4 streambank stabilizations
 - 3 wetland restorations
- During the reporting period, grants unit staff continued to maintain excellent compliance with updating the Grants Reporting and Tracking System (GRTS) database. Ohio's mandatory elements exception reports continue to note very few (if any), missing elements in GRTS.
 - Jo Hodanbosi, Rick Wilson and Russ Gibson participated by computer and phone in the Region 5 GRTS Users training that was conducted May 14th, 2010.
 - ***New Initiative:*** In response to ongoing concerns with the accuracy of load reduction estimates being submitted with section 319(h) subgrants and recognizing the need to make such estimates for SWIF projects, Ohio EPA NPS program staff enhanced their capacity to run various models to calculate and/or verify reported load reduction estimates. Previously, this assistance was provided solely by ODNR and/or grant applicants.
 - All load reduction estimates have been calculated and updated in the federal Grants Tracking System (GRTS). ***(Please refer to Tables 2-1 through 2-8 for respective load reduction updates).***
 - We continue to evaluate and reallocate nonpoint source and section 319 program staffing resources. During FFY10, our grants coordinator Pat Swaney retired. Rather than replacing her with another grants coordinator we were able to greatly enhance our grants management capabilities by transferring Jo Hodanbosi as an administrative assistant. Ms. Hodanbosi has extensive experience with the Division of Surface Water having previously served as the chief administrative support person for the division. As we continue to expand our responsibilities, her experience is proving to be a valuable asset to the NPS program. Natalie Farber recently accepted an assignment with Ohio's Credible Data Program. Ohio NPS Program staffing is now holding steady with 4 central office staff and 2 full-time equivalents spread among 4 Ohio EPA district offices.
 - Beginning with the FFY09 section 319(h) grant cycle, Ohio EPA transitioned to a system for payments that more closely aligns with federal guidelines. Subgrantees may request payments after costs have been "invoiced and incurred". This revision moved subgrantees towards a reimbursement payment process and has been received with no comment and/or negative feedback. As a result, Ohio EPA's grants cash management and subgrant administration has improved.

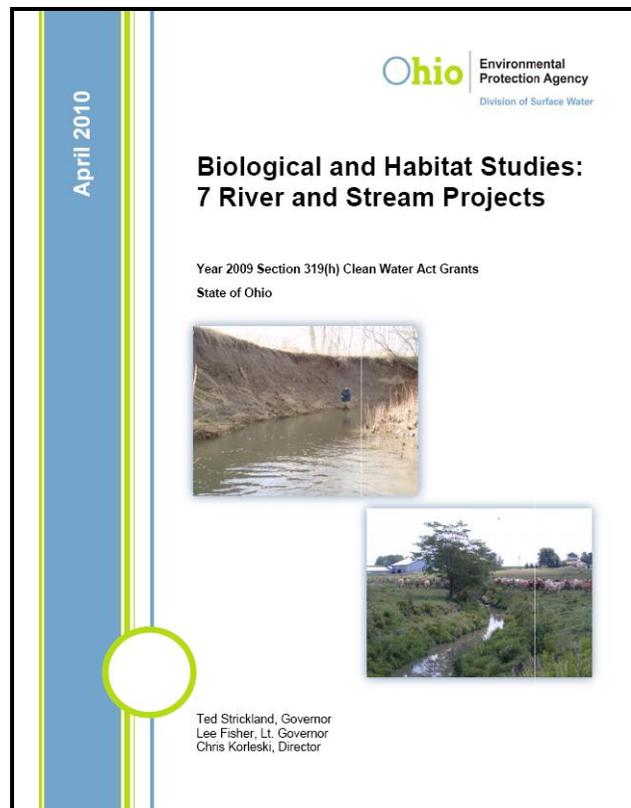
- NPS Program staff continues to work closely with Ohio EPA's Public Involvement Center staff to prepare and release section 319(h) and SWIF subgrant announcements to local media outlets in an effort to expand community awareness of the various programs and local projects that are being implemented. News releases were prepared and distributed to local and statewide media outlets for all awarded section 319(h) subgrants and Surface Water Improvement Funds (SWIF).
- Prepared and executed 7 FFY10 Section 319(h) subgrant work plans, grant agreements and other supporting documents with project funding totaling nearly \$2.6 million. Additionally, 4 more subgrants were executed using reprogrammed funding from the FFY08 grant cycle totaling more than \$383,000.
- Prepared and executed 4 section 319(h) subgrant work plans, grant agreements and other supporting documents as a result of re-programming previously unspent FFY06, FFY08, FFY09 and FFY10 subgrant funding. Projects were added following submittal and approval by Region 5 NPS program staff. Two of these projects were for grants to implement activities within the Grand Lake St. Marys watershed where serious algal blooms have heightened water quality concerns.
- Prepared and executed a supplemental section 319(h) grant #C900E79891 awarded by US EPA to Ohio EPA to provide an Interagency Agreement with the USDA-Natural Resources Conservation Service to conduct Targeted Conservation Planning in the Grand Lake St. Marys watershed. Activities will be confined to the Beaver/Coldwater and Grassy/Monroe Creeks subwatersheds and have a goal of completing conservation plans on 35% of the acres. During FFY11 and FFY12, the project will focus on implementing BMPs in these two subwatersheds.
- Throughout the FFY10 reporting period, Ohio NPS grants staff processed 64 subgrant payments requests, 193 quarterly fiscal reports and 12 final payments were processed for subgrants that closed out. Additionally, all section 319 grant funded project summaries were updated with data received from semi-annual progress reports. The Ohio EPA NPS website was updated with most recent implementation data received from subgrant project managers.
- Continued to update and enhance Ohio EPA's NPS and section 319 program web pages to improve their value as resources for watersheds groups, subgrantees, Ohio EPA staff and the general public. All grants related documents, forms and information are included as reference tools as well as up-to-date project summaries for all grant funded projects since FFY03.
- Ohio EPA Ecological Assistance Unit program staff completed an environmental review of all recommended FFY11 section 319 grant applications. This review consists of a comprehensive examination of the current water quality conditions in streams where projects are being proposed as well as a qualitative evaluation of the potential environmental effectiveness of proposed projects.
- Continued to maintain a subgrant "Expenditure-to-Date" report for active grants that allows for effective subgrant fund management and helps to insure compliance with federal cash management requirements. We also are maintaining a "Grants Closed Out to Date" report that tracks similar information for grants that have been closed out. Copies of these reports are available upon request.
- Conducted subgrant project update meetings and site visits with 20 local subgrantees. Project update meetings and site visits are typically conducted during or near the first year anniversary of a subgrant award. They are designed to insure that adequate progress is

being made on grant funded projects. It is during these visits where we may also work with subgrantees to make the necessary revisions to insure that projects will be completed in a timely manner.

- #06(h)EPA-09—NEFCO (Potter Creek)
- #06(h)EPA-18—Cuyahoga County Board of Health (Mill Creek-Cuyahoga River)
- #06(h)EPA-25—West Creek Watershed Group (West Creek)
- #06(h)EPA-27—City of Columbus (Olentangy River)
- #06(h)EPA-36—Rivers Institute (Beetree Run)
- #06(h)EPA-05—Ohio State University (Watershed Academy)
- #07(h)EPA-08—The Nature Conservancy (Big Darby Creek)
- #07(h)EPA-13—Rivers Institute-Bath Township (Bath Creek-Cuyahoga River)
- #07(h)EPA-15—Rivers Institute (Clover Groff)
- #08(h)EPA-06—Bainbridge Township Trustees (Chagrin River)
- #08(h)EPA-19—The Nature Conservancy (Big Darby Creek)
- #08(h)EPA-05—Ohio State University (Watershed Academy)
- #08(h)EPA-30—Ohio State University (NPS Monitoring Conference)
- #08(h)EPA-35—Franklin County SWCD—Waterman Farms Project
- #09(h)EPA-12—Mercer County Soil & Water Conservation District
- #09(h)EPA-15—Mill Creek Watershed Partners
- #09H)EPA-17—Village of New Albany
- #09(h)EPA-18—Mercer County Commissioners (Prairie Creek Project)
- #10(h)EPA-18—Ohio State Parks (GLSM Alum Demonstration Project)
- #EPAGRAND-01—USDA-Natural Resources Conservation Service
- Provided technical assistance to 26 local governments, watershed groups and others, including:
 - City of Columbus
 - Village of New Albany
 - City of Delaware/Delaware County Fair Board
 - Liberty Township
 - Fayette County
 - Chagrin River Watershed Partners
 - Bainbridge Township
 - Mid-Ohio Regional Planning Commission
 - Bath Township
 - City of Broadview Heights
 - BioHabitats, Inc.
 - Ohio State Parks
 - Grand Lake St. Marys State Park
 - Reynoldsburg City Schools
 - Toledo School for the Arts
 - City of Toledo
 - Cuyahoga County Health Department
 - Five Rivers Metroparks
 - Grand Lake St. Marys Restoration Commission
 - Mercer County Commissioners
 - Friends of the Lower Olentangy
 - Franklin County Drainage Engineer
 - Delaware County Stormwater Department
 - Franklin County Soil & Water Conservation District
 - Ohio State University—Waterman Farms Dairy Facility
 - City of Celina

- Under the second year of a memorandum of agreement with the Ohio Department of Natural Resources Office of Internal Audits, auditors will be performing financial compliance reviews of 10 section 319 subgrantees during the upcoming year. We will be forwarding a new list of subgrantees to be audited during FFY10. Last year's results were very encouraging with compliance questions arising on less than 1% of the more than \$3.8 million in total expenditures that were audited. Ohio EPA will continue this relationship with ODNR's Internal Audit staff during FFY10 to insure that section 319 funds are being properly managed by subgrantees.
- Ohio EPA discontinued use of the **TRAX** computerized grants-management database that was developed using section 319 funding during FFY2007. This database was produced and maintained by Bamboo Systems, Inc. and proved to be excessively cumbersome and counter-intuitive.
- Ohio EPA's Ecological Assessment Unit (EAU) completed baseline monitoring of all FFY09 Section 319(h) subgrant funded projects. Comprehensive biological and chemical water quality monitoring was done on all streams where grant-funded projects will be implemented. Follow-up monitoring will be completed in 2012 following completion of all FFY09 funded projects. FFY10 section 319 project baseline monitoring is currently being conducted by EAU with the first of post-project being completed on most FFY08 funded projects during the summer of 2011.

The results of FFY08 and FFY09 Section 319 project baseline monitoring are available on Ohio EPA's Division of Surface Water website.



TMDL Development and Watershed Assessment: An important component of Ohio's NPS efforts is the ongoing assessment of watersheds throughout the state and the completion of Total Maximum Daily Load (TMDL) studies. In addition to very specifically providing a valuable tool for assessing water quality on a watershed-wide basis, the TMDL process also identifies science-based recommendations for addressing impairments caused by nonpoint sources of pollution. TMDL activities completed during the reporting period include:

- Continuing to improve alignment of nonpoint source program activities with TMDL studies and state endorsed 9-element watershed action plans.
- **New Initiative:** Ohio EPA TMDL staff are using the "master universe of deliverables and units of measurement" in all TMDL reports. This master deliverable list uses many of the same deliverables and units of measure as are used in Ohio's section 319 grants program and will provide increased consistency as well as much improved implementation tracking efforts.
- Providing staff resources for the completion of TMDL studies. During FFY10, Ohio EPA submitted TMDLs for review and approval in 7 project areas covering 18 HUC watershed units. In addition, new TMDL initiatives commenced in 24 HUC watershed units in 7 project areas during the reporting period. TMDLs were submitted and approved (or at Region 5 and expected to be approved) by US EPA for the Swan Creek, Nimishillen Creek (phosphorus), Mad River, White Oak Creek, Yellow Creek, Twin Creek and Walnut Creek watersheds.

- The 2010 Integrated Water Quality Monitoring and Assessment Report was completed and approved. While the overall approach to the report was similar to the past few reporting cycles, Ohio EPA made significant improvements to the report. Continuing the watershed-based listing approach first used in 2002, we shifted from the larger watershed assessment unit (11-digit hydrologic unit) to a smaller (12-digit hydrologic unit) watershed assessment unit size. Some of the large river units were also split into smaller pieces. Another significant change was the introduction of listing by use, which makes it possible to report improvement even if some uses remain impaired. For example, water quality improvement that results in attainment of the public drinking water supply use can be captured in the listing process even though impairment of the aquatic life use remains. Altogether, these changes will provide for more precise reporting of water quality conditions in the report and more consistent communication of water quality improvements to US EPA and the public. For more information please see:

<http://epa.state.oh.us/dsw/tmdl/2010IntReport/index.html>.

- New assessment areas include the following:
 - Great Miami River (lower)
 - Ohio River tributaries—Portsmouth Area
 - Ohio River tributaries—Wheeling Area
 - Ottawa River (Lima Area)
 - Sandy Creek
 - Scioto River (middle)
 - Walhonding and Muskingum River tributaries



Ohio EPA Ecological Assessment Unit staff conducts fish sampling in the Olentangy River near a section 319 project site.

- Ohio EPA continued updating the TMDL monitoring web page. This site increases public access to TMDL information earlier in the process and promotes improved public understanding of the TMDL process and water quality issues affecting a particular watershed. The TMDL Monitoring web page is found at:
<http://www.epa.state.oh.us/dsw/tmdl/monitoring.aspx>.

Watershed Planning & Support Services: Ohio EPA's NPS Program continues to support local watershed planning efforts through both financial and technical assistance. Since 2001, Ohio EPA has awarded nearly \$3.8 million in section 319(h) subgrants to the ODNR-Division of Soil & Water Resources to implement Ohio's Watershed Coordinator Program. These efforts resulted in the completion of approximately 40 fully state endorsed 9-element watershed action plans and 9 conditionally endorsed plans. Ohio EPA activities supporting local watershed planning completed during the reporting period include:

- Ohio EPA provided financial support and general administrative oversight over the Watershed Coordinator Grant Program implemented by the ODNR-Division of Soil & Water Conservation. Ohio EPA subgrants \$400,000 annually to ODNR for this program—ODNR in turn provides approximately \$360,000 in matching state funds. This ODNR-administered program provides grant support for approximately 20 local watershed coordinators employed by soil & water conservation districts, non-profit organizations, local governments and others.
- **New Initiative:** Hugh Trimble, Southwest Ohio District NPS Specialist is providing technical and coordinative assistance to Ohio's Scenic Rivers Program and the Village of West Milton as they examine the feasibility of removing the West Milton Dam on the Stillwater Scenic River. This is a structure that is approximately 10 feet high and several hundred feet across—serving as the only impairment in a several mile segment of the Stillwater River that is in attainment of Exceptional Warmwater Habitat. The 2 mile dam pool is the only stream reach in that segment that is in non-attainment of EWH.
- Continued providing section 319(h) sub-grant support to Ohio State University Extension to implement Ohio's Watershed Academy and to facilitate the development and use of nonpoint social indicators for Ohio. OSU Extension is expanding pilot social indicator projects from 2 to 3 during the reporting period ... adding a project that examines the effectiveness of watershed signage in the White Oak Creek watershed. Watershed academy activities are transitioning to additional web-based programming however, continues to be an important resource for Ohio's local watershed groups and others.
- Ohio EPA staff participated on Area Assistance Teams providing technical and programming support to all 319-funded local watershed planning efforts. Ohio EPA District NPS program staff routinely serves on local watershed planning committees and workgroups. Others participating on Area Assistance Teams include ODNR-Division of Soil & Water Conservation and Ohio State Extension.

Agricultural Assistance: With the recent addition of technical staff to Ohio EPA's Nonpoint Source Program, substantial effort has been committed to helping to more clearly identify NPS problems associated with agricultural production in Ohio as well as to improve the effectiveness of agricultural practices that are being implemented. Following are several initiatives that were undertaken during the FFY10 reporting period:

- **New Initiative:** A Farm Bill 101 training session was conducted by Ohio State Conservationist Terry Cosby to facilitate better understanding of the wide variety of

conservation programs administered by USDA-NRCS. Twelve staff from several programs in Ohio EPA attended the session. Basic program overviews were provided by each NRCS program administrator and questions were encouraged. The participation by Ohio EPA is indicative of the recognition that for many of Ohio's watersheds, water quality improvement is dependent upon successful enrollment and implementation of effective agricultural conservation practices under programs administered by NRCS.

- **New Initiative:** Rick Wilson, NPS Technical Specialist attended controlled drainage training conducted at the Overholt Drainage event. OSU professor Dr. Larry Brown provided background on the water benefits of controlled drainage systems and installation methods. Some participants were concerned that the current lack of design standard makes it difficult to promote controlled drainage. One key feature to effectively promoting the practice concerns the yield data that suggests crop yields increasing on fields where controlled drainage is deployed. Additional discussions centered upon the potential water quality benefits that can be achieved through controlling drainage in surface ditches.
- NPS Program staff routinely participates on the USDA-NRCS State Technical Committee. During the reporting period Ohio EPA attended all four quarterly meetings and as a result of regular participation, staff provided support to several of the STC subcommittees.
- **New Initiative:** NPS Program staff worked with the State Wildlife Team in selecting conservation priority areas as a result of participating on the State Technical Committee. These selected Conservation Priority Areas are eligible for general CRP program sign-up. Ohio EPA assisted in the selection of water quality related priority watersheds which focused on locations with high percentages of row crop land use and also watersheds where drinking water issues related to nonpoint source runoff exist. As a result, approximately 2 million acres outside of the Lake Erie watershed were identified as priority areas.
- **New Initiative:** Ohio EPA NPS staff continued to participate on the Ohio Lake Erie Phosphorus Task Force which published its final report in April, 2010. While the task force considered phosphorus contributions from all potential sources, it concluded that changes in agriculture are having the greatest effect on the increased delivery of dissolved reactive phosphorus to Lake Erie. To address the issues identified by the task force, several best management practices were recommended for near-term implementation. The task force report is available at: <http://www/epa.state.oh.us/dsw/lakeerie/ptaskforce/index.aspx>.
- **New Initiative:** One recommendation of the Ohio EPA Lake Erie Phosphorus Task Force was to review and revise the Ohio Phosphorus Index. Rick Wilson is participating on a committee to complete this task with a goal to modify the P-Index tool so that more environmentally sound phosphorus fertilizer management and conservation practice decisions will be made to reduce the loading of phosphorus to tributaries from cropland.
- Under provisions of recently funded project #08(h)EPA-35 the Franklin County SWCD, Ohio State University and Ohio EPA are working collaboratively to make Waterman Farms (an OSU-owned facility) an agricultural best management practice demonstration farm. This project was originally to be funded under a FFY10 section 319 grant; however was funded using re-programmed FFY08 funding to expedite implementation. Implementation of this project will provide a living classroom for agricultural students at Ohio State and demonstration best management practices for:
 - Overwide/self-forming channel ditch conversion
 - 2-stage channel conversion of traditional agricultural ditches
 - Conservation & nutrient management demonstration BMPs.
 - Livestock exclusion practices

- Rotational grazing BMPs
- Cover crops, composting and nutrient management
- Rainwater harvesting and reuse

Additional details about this project are available in the FFY08 Project Summary section of this report.

- **New Initiative:** In response to ongoing concerns with overstated Agricultural BMP effectiveness, staff performed an analysis of each available conservation practice against water quality related resource concerns. Each practice was evaluated and then ranked in terms of its water quality effectiveness. The document has been prepared for use by NPS Program and TMDL staff to more effectively target BMPs when developing TMDL Implementation plans and/or when reviewing proposals for section 319 and/or Surface Water Improvement grants.
- **New Initiative:** In anticipation of an upcoming revision to Ohio's Nonpoint Source Management Plan, a more effective message for dealing with nonpoint source issues related to agriculture was developed by Ohio EPA's NPS Program staff. Following is a summation of the messaging that will be consistently used by Ohio EPA NPS staff when discussing agricultural water quality related issues:
 - Increase conservation planning
 - Install effective hydraulic buffers
 - Focus on critical areas
 - Reestablish 3-zone riparian buffers
 - Eliminate application of manure on frozen or snow covered ground
 - Control drainage
 - Install upland or in-field hydraulic buffers
 - Eliminate manure application at rates that provide more than 1 year of benefit
 - Plant cover crops as part of long term conservation crop rotation
 - Use alum to bind soluble phosphorus in manure prior to application

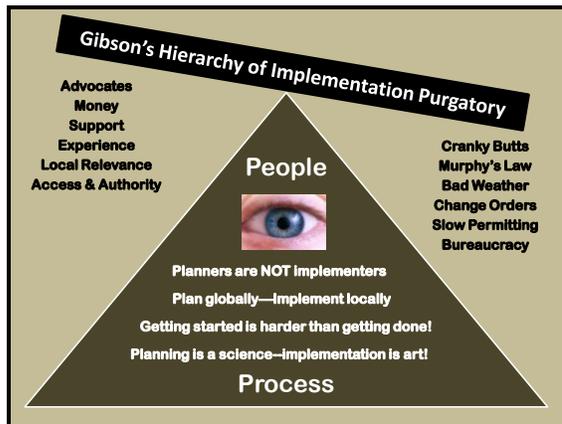
Although we do not expect such recommendations to be widely adopted by the agricultural community and infrastructure, we believe strongly that the messaging is responsible, needed and provides a clear path forward for improving water quality conditions in agricultural areas. Grant programming and education & outreach efforts will be reprogrammed to support these recommendations for dealing with agricultural NPS issues.

- **New Initiative:** Under the provisions of section 319 project #08(h) EPA-32 Ohio EPA and Ohio State University are collaborating to develop a model that can be used to help quantify in-stream nutrient processing in agricultural watersheds. This tool will be used to evaluate the nutrient removal rates in several ditch sites with data previously collected by OSU. All modeling techniques and tools used and equations developed will be summarized and provide to Ohio EPA for future use by modeling staff. Additionally, two technical workshops will be provided to EPA staff and others regarding stream geomorphology and nutrient cycling.

Additional details regarding this initiative may be found in the FFY08 Project Summary section of this report.

Education and Outreach: Another important component of Ohio's NPS Management Program involves effectively communicating activities that are underway to address NPS impairments within Ohio's watershed. Outreach activities are also designed to provide Ohioans

with information about actions that can be undertaken to help solve NPS impairments. Educational and Outreach activities completed during the reporting period include:

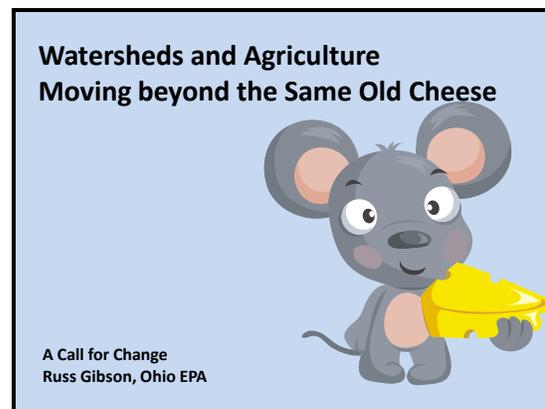


- On June 10, 2010 Russ Gibson presented “Tracking Implementation on the Watershed Scale” at the 2010 Ohio Stormwater Conference, held in Sandusky Ohio. The presentation reinforced the importance of implementing watershed action plans in order to realize water quality benefits. The conference was attended by approximately 200 local officials, watershed coordinators, consultants and others.

Improvement Fund Grants” presentation to Ohio EPA Surface Water staff at the Fall Water Quality Retreat on October 29, 2009. Presentation introduced DSW staff to the final program guidelines and funding restrictions on this newly implemented nonpoint source grant program.

- Delivered a presentation on the Surface Water Improvement Fund to an audience of attorneys general and Ohio EPA enforcement personnel. The presentation was designed to increase enforcement staff awareness of the program guidelines for the SWIF grants and to offer additional alternatives when strict enforcement is not required to resolve an issue.
- In November, 2009 Russ Gibson delivered a presentation on the Surface Water Improvement Fund at the Northeast Ohio Stormwater Association Workshop that was conducted in part by US EPA-Region 5 and the Chagrin River Watershed Partners. Approximately 300 local government officials and stormwater management professionals attended this training.

- On March 5, 2010 Gibson presented “Watersheds and Agriculture: Moving beyond the same old Cheese” to the all Ohio chapter of the Soil & Water Conservationists. This organization is comprised of NRCS current staff and retirees as well as representatives of ODNR, OEPA and other state agencies and conservation organizations. This presentation was attended by approximately 50 participants.



- Staff conducted NPS related presentations and outreach at the following events:
 - Franklin SWCD & OSU Waterman Farms Video Production (7/10)
 - All Ohio Chapter of the Society of Soil & Water Conservation (3/10)
 - GLSM-Tetrtech Introductory Meeting (3/10)
 - GLSM-Tetrtech Preliminary Results Meeting (5/10)
 - Cuyahoga County GLRI/Surface Water Improvement Fund Grantee Training (8/10)
 - Statewide Surface Water Improvement Fund Grantee Training (8/10)
 - Northeast Ohio Stormwater Association (11/09)
 - OEPA DSW and Attorney General SWIF presentation (4/10)

- Ohio EPA's NPS Program staff continues to provide reference services and technical assistance to staff at Grand Lake State Park in response to recent harmful algae blooms and *microcystin* levels that resulted in a recreational advisory contact. We are currently evaluating various lake (and watershed) management BMPs that may be appropriate to restore the waters of Grand Lake so that they are safe for human recreation and aquatic life use. *(Please refer to the special supplement to this annual report on Grand Lake in latter sections of this report for additional details of Ohio NPS efforts in this watershed).*



Representatives of the Grand Lake Restoration Commission talk before a May, 2010 meeting with Ohio EPA, US EPA and Tetrattech at Wright State University in Celina.

- **New Initiative:** In conjunction with the Region 5 Social Indicator Collaboration, Ohio State University Extension will use section 319 grant funding to implement a watershed scale signage and social indicator project. Pre and post public surveys will measure the effectiveness of watershed signage in improving resident's awareness of nonpoint source and watershed related issues. This project is being funded with unspent funds from the NPS Monitoring Workshop grant that Ohio State received under provisions of project #08 N234(E)-02.

Ohio EPA's NPS Program is an effective piece of the state of Ohio's overall strategy to address the impacts of nonpoint source pollution in Ohio's rivers and streams. Providing leadership and direction, the program is committed to continuous quality improvement and effectively incorporating lessons learned to improve the restoration of impaired waters and the successful elimination of impairments caused by nonpoint source pollutants, regardless of source.

Listing of Tables

The following pages are a series of relevant grants and data tables that were referenced in previous narrative. Please refer to the following:

- Table 1-1: Subgrants Closed Out during FFY10
- Table 1-2: FFY2003 Subgrant Recipients
- Table 1-3: FFY2004 Subgrant Recipients
- Table 1-4: FFY2005 Subgrant Recipients
- Table 1-5: FFY2006 Subgrant Recipients
- Table 1-6: FFY2007 Subgrant Recipients
- Table 1-7: FFY2008 Subgrant Recipients
- Table 1-8: FFY2009 Subgrant Recipients
- Table 1-9: FFY2010 Subgrant Recipients

- Table 2-1: Annual Pollutant Loads Reductions by Project Year since FFY2001
- Table 2-2: FFY2001 Final Nonpoint Source Pollution Load Reductions
- Table 2-3: FFY2002 Final Nonpoint Source Pollution Load Reductions
- Table 2-4: FFY2003 Final Nonpoint Source Pollution Load Reductions
- Table 2-5: FFY2004 Final Nonpoint Source Pollution Load Reductions
- Table 2-6: FFY2005 Nonpoint Source Pollution Load Reductions
- Table 2-7: FFY2006 Nonpoint Source Pollution Load Reductions
- Table 2-8: FFY2007 Nonpoint Source Pollution Load Reductions
- Table 2-9: FFY2008 Nonpoint Source Pollution Load Reductions
- Table 2-10: FFY2009 Estimated Nonpoint Source Pollution Load Reductions

- Table 3-1: Total Maximum Daily Load Studies Status
- Table 3-2: State Fully Endorsed Watershed Action Plan Status
- Table 3-3: State Conditionally Endorsed Watershed Action Plan Status

Table 1-1
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
Subgrants **Closed Out during FFY 2010**
Grants closed out through 8/31/10

Project Number	Project Sponsor	Total Federal Awarded	Total Federal Expenditures	% Spent	Date Closed
#05(h)EPA-05	ODNR-Scenic Rivers	\$284,000	\$145,425	51.2%	09/10/09
#05(h)EPA-26	The River Institute	\$166,822	\$163,189	97.8%	09/08/10
#06(h)EPA-06	Miami County SWCD	\$231,192	\$227,373	98.3%	03/05/10
#06(h)EPA-08	Little Beaver Creek Land Foundation	\$107,933	\$107,933	100%	12/02/09
#06(h)EPA-09	NEFCO-Potter Creek	\$248,250	\$159,456	64.2%	04/28/10
#06(h)EPA-10	TMACOG-Ottawa River Dam Removal	\$204,970	\$148,130	72.3%	12/08/09
#06(h)EPA-11	Muskingum County SWCD	\$96,625	\$45,702	47.3%	06/24/10
#06(h)EPA-18	Cuyahoga County Health Dept.	\$280,899	\$280,899	100%	08/24/10
#06(h)EPA-23	Five Rivers Metroparks-Stillwater R.	\$224,000	\$224,000	100%	03/12/10
#06(h)EPA-25	West Creek Preservation Committee	\$187,500	\$187,500	100%	06/30/10
#06(h)EPA-27	City of Columbus	\$416,063	\$416,063	100%	07/15/10
#06(h)EPA-28	Holden Arboretum	\$150,000	\$150,000	100%	01/31/10
#06(h)EPA-31	Columbus/Franklin County Metroparks	\$315,172	\$225,427	71.5%	02/24/10
#06(h)EPA-33	Ohio State Research Foundation	\$50,000	\$4,237	8.5%	06/17/10
#06(h)EPA-34	Village of Ottawa	\$19,971	\$13,783	69.0%	11/10/09
#06(h)EPA-35	Five Rivers Metroparks	\$176,588	\$176,588	100%	07/21/10
#07(h)EPA-02	ODNR-Soil & Water Core Grant	\$413,000	\$413,000	100%	09/04/09
#07(h)EPA-04	ODNR-Watershed Coordinator Grants	\$400,000	\$400,000	100%	09/25/09
#07(h)EPA-16	Rural Action	\$156,666	\$149,831	95.6%	03/22/10
#08(h)EPA-03	ODNR-Watershed Coordinator Grants	\$400,000	\$400,000	100%	06/04/10
#08(h)EPA-05	Ohio State Extension	\$99,839	\$89,678	89.8%	07/06/10
#09(h)EPA-10	Washington County SWCD	\$138,000	\$0	0.00%	06/25/10
TOTALS		\$4,767,490	\$4,128,214		

Table 1-2
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2003 Subgrant Recipients

Federal Grant #C997550003
Grant Closes 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 1-3
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2004 Subgrant Recipients

Federal Grant # C997550004
Grant Closes 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 1-4
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2005 Subgrant Recipients

Federal Grant # C997550005
Grant Closes 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 River	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 River	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 1-5
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 1-6
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2007 Subgrant Recipients

Federal Grant # C997550007
Grant Closes 06/30/11

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	Powerderlick 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-22	Grand River Partners, Inc.	Grand River	Conservation Easements	\$ 250,000
07(h)EPA-23	Warren County SWCD	Little Miami	Streambank Stabilization	\$ 125,000
Total Federal 319(h) Implementation Funds Awarded				\$3,393,378

Table 1-7
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2008 Subgrant Recipients

Federal Grant # C997550008
Grant Closes 06/30/12

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	\$ 24,150
#08(h)EPA-35	Franklin SWCD	Olentangy River	Agricultural BMP Projects	\$ 194,016
Total Federal 319(h) Implementation Funds Awarded				\$3,811,194

Table 1-8
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2009 Subgrant Recipients

Federal Grant # C997550009
Grant Closes 06/30/13

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	\$ 138,790
09(h)EPA-11	Brown County SWCD	White Oak Creek	Agricultural BMPs	\$ 280,347
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	\$ 341,100
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 Mgmt.	\$ 250,000
09(h)EPA-19	City of Reynoldsburg	Blacklick Creek	Wetlands Restoration	\$ 150,000
Total Federal 319(h) Implementation Funds Awarded				\$2,672,675

Table 1-9
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
FFY 2010 Subgrant Recipients

Federal Grant #C997550010
Grant Closes 06/30/14

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
Total Federal 319(h) Implementation Funds Awarded				\$3,079,459

Table 2.1
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	170,298	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	12,606	5,067	2,812	84,600
FFY 2006	10,022	5,021	13,160	0
FFY 2007	3,448	2,206	1,315	0
FFY 2008	4,514	2,285	2,134	0
FFY 2009 est.	26,943	13,868	11,637	0
FFY 2010 est.	4,394	1,569	1,190	0
TOTAL	566,284	228,705	170,431	396,825

*All load reductions are updated and current through project semi-annual technical reports received through 8/27/10. FFY2001, FFY2002 and FFY2003 load reductions are FINAL for that grant cycle. Final reports have been received for all sub-grant projects for those cycles.

Table 2.2
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 Closes 12/31/06

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 2.3
FINAL – 03/03/08
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2002 Projects

Federal Grant #C997550002
Grant Closes 12/31/06

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-06	Rural Action, Inc.	433	164	0	3,600
02(h)EPA-06	Seneca County SWCD	56,792	29,113	19,166	0
02(h)EPA-06	OSU Extension Service	48,909	5,185	518	0
02(h)EPA-06	Ducks Unlimited	37,322	6,533	36	0
02(h)EPA-06	Greene County SWCD	22,017	10,493	10,451	0
02(h)EPA-06	Mill Creek Inc.	3,033	324	20	0
		170,298	52,667	30,195	19,320

Table 2.4
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 Closes 06/30/08

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 2.5
FINAL – 09/08/08
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2004 Projects

Federal Grant #C997550004
Grant Closes 06/30/09

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	2,475
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 CAO	6,244	2,365	0	51,840
		19,866	5,130	1,039	62,235

Table 2.6
Updated – 08/24/09
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2005 Projects

Federal Grant #C997550005
Grant Closes 09/30/09

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	5,030	1,905	0	41,760
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-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
		12,606	5,067	2,812	84,600

Table 2.7
Updated – 08/24/09
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2006 Projects

Federal Grant #C997550006
Grant Closes 10/31/11

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 SWCD	75	37	37	0
06(h)EPA-08	Little Beaver Creek	0	0	415	0
06(h)EPA-09	NEFCO-Potter Creek	0	0	0	0
06(h)EPA-10	TMACOG	0	0	0	0
06(h)EPA-11	Muskingum SWCD	9,014	4,508	9,592	0
06(h)EPA-18	Cuyahoga County Health Department	600	255	255	0
06(h)EPA-23 & 35	Five Rivers Metroparks	0	0	0	0
06(h)EPA-24	Greene County SWCD	420	210	210	0
06(h)EPA-25	West Creek Preservation	0	0	0	0
06(h)EPA-28	Holden Arboretum	0	0	2,650	0
06(h)EPA-31	Franklin County Metroparks	13	11	1	0
		10,022	5,021	2,812	0

Table 2.8
Updated – 08/24/09
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2007 Projects

Federal Grant #C997550007
Grant Closes 06/30/11

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	384	198	171	0
07(h)EPA-08	The Nature Conservancy	1,480	738	738	0
07(h)EPA-13	The River Institute	230	114	114	0
07(h)EPA-14	Scioto River Federation	960	960	96	0
07(h)EPA-15	The River Institute	394	196	196	0
		3,448	2,206	1,315	0

Table 2.9
Updated – 08/24/09
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2008 Projects

Federal Grant #C997550008
Grant Closes 06/30/12

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 Township Trustees	510	255	255	0
08(h)EPA-11	Cuyahoga County SWCD	178	89	89	0
08(h)EPA-12	Lake County Storm Water	100	50	50	0
08(h)EPA-15	Rural Action, Inc.	0	0	0	0
08(h)EPA-16	Five Rivers Metroparks	135	67	67	0
08(h)EPA-17	Rural Action, Inc.	0	0	0	0
08(h)EPA-18	Columbus Recreation & Parks	143	72	72	0
08(h)EPA-19	The Nature Conservancy	517	258	258	0
08(h)EPA-22	Greene County Sanitary Engineer	1,412	734	583	0
08(h)EPA-26	The River Institute	584	292	292	0
08(h)EPA-29	Village of Chagrin Falls	935	468	468	0
		4,514	2,285	2,134	0

Table 2.10
Updated – 8/17/10
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2009 Projects

Federal Grant #C997550009
Grant Closes 06/30/13

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	0	0	0	0
09(h)EPA-10	Washington County SWCD	0	0	0	0
09(h)EPA-11	Brown County SWCD	0	0	0	0
09(h)EPA-12	Mercer County SWCD	72.3	27.4	0	0
09(h)EPA-13	City of Marysville	0	0	0	0
09(h)EPA-14	Summit County Metroparks	0	0	0	0
09(h)EPA-15	Mill Creek Partners	0	0	0	0
09(h)EPA-16	City of Xenia	0	0	0	0
09(h)EPA-17	Village of New Albany	0	0	0	0
		72.3	27.4	0	0

Table 2.11
Updated – 8/17/10
Ohio Environmental Protection Agency
Section 319(h) Clean Water Act Grants
NPS Pollution LOAD REDUCTIONS
FFY2010 Projects - Estimated

Federal Grant #C997550010
Grant Closes 06/30/14

Project Number	Project Sponsor	ESTIMATED Load Reductions Expected			
		Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage Treated (gallons/day)
10(h)EPA-07	City of Fremont	0	0	0	0
10(h)EPA-08	Geauga County Park District	377	188	188	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	15	7	7	0
10(h)EPA-17	City of Akron	8.66	4.33	4.33	0
10(h)EPA-18	West Creek Preservation Committee	391	195.5	195.5	0
10(h)EPA-20	Mercer County Commissioners	2767	675	287.5	0
10(h)EPA-21	City of Reynoldsburg	685	349	207	0
		4,393.66	1,568.83	1,189.33	0

Table 3.1
 Ohio Environmental Protection Agency
 Section 319(h) Clean Water Act Grants
Total Maximum Daily Load (TMDL) Status
 Updated through 08/30/10

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
 Beaver Creek & 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

Table 3.2
 Ohio Environmental Protection Agency
 Section 319(h) Clean Water Act Grants
State Fully Endorsed Watershed Plans
Fully endorsed plans meet all 9-required elements
 Updated through 08/30/10

Lower East Fork—Little Miami River
 Todd's Fork—Little Miami River
 White Oak Creek
 Kokosing River
 Lower Alum Creek
 Lower Muskingum River
 Leading Creek
 Duck Creek
 Wolf Creek
 Lower Olentangy River
 Upper Olentangy River
 Huff Run
 Grand Lake St. Mary's
 Salt Creek
 Upper Mill Creek—Ohio River Tributary
 Bokes Creek
 Stillwater River
 Federal Valley
 Sandusky River—Honey Creek
 Paint Creek
 Euclid Creek
 Rocky River
 Chagrin River
 Mill Creek—Mahoning River Tributary
 Honey Creek
 West Creek
 Lower Big Walnut Creek
 East Fork Little Miami River—Lake Tributaries
 Lower Mad River
 Monday Creek
 Nimishillen River
 Sandusky River (Tiffin)
 Upper Scioto River
 Raccoon Creek Headwaters
 Mill Creek—Upper Scioto River Tributary
 Blacklick Creek
 Bokes Creek
 East Fork Little Miami River Headwaters
 Indian lake
 Tinkers Creek
 Rocky Fork
 Old Woman Creek
 Middle East Fork-Little Miami River

Table 3.3
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 08/30/10

East Fork Little Miami River
 Sunday Creek
 Raccoon Creek
 Lower Maumee River
Headwaters Sugar Creek
 Duck & Otter Creeks
 Little Beaver Creek
 Lower Grand River
 Twin Creek
 Mentor Marsh
 Upper Mad River