

Special Issue: 2004 Great Lakes Basin Program Projects Improving Water Quality Through Soil Erosion and Sedimentation Control



This special issue of Keeping It On the Land details the 48 projects that have been awarded grants under the Great Lakes Basin Program for Soil Erosion and Sediment Control for FY2004. This includes 38 small-scale projects (up to \$35,000 per project) and 10 large-scale projects (approximately \$100,000 per project). More than \$1.9 million in grants were awarded this year under the program, which is a state-federal partnership

involving the Great Lakes Commission, the U.S. Department of Agriculture-Natural Resources Conservation Service and the U.S. Environmental Protection Agency. The numbers on the map above correspond to the demonstration and information/education projects, selected by a regional task force, that are being funded under this highly competitive grants program. The project list and descriptions begin on page 2.

2004 Projects

Large-Scale Projects *listed by state*

Indiana

1) St. Joseph River Erosion Reduction Project: \$99,940

St. Joseph River Watershed Initiative. Contact: Jane Loomis, jane-loomis@iaswcd.org

This project will provide funding to work with partner conservations districts for farmer-to-farmer outreach efforts in six counties to sell conservation programs, thereby increasing buffers/filter strips in the watershed by 1,500 acres. It will also create digitized records, including an electronic database and GIS mapping, of conservation practices on the land within the watershed (including their expiration dates), in order to more accurately and efficiently pinpoint critical areas in need of conservation and target efforts for reducing erosion and pollution.

Michigan

2) Battle Creek River Restoration Project: \$100,000

Thornapple-Grand Conservation District. Contact: Kristine Boley-Morse, kristine-boleym@mi.nacdn.net

The purpose of this project is to reduce bank erosion and sedimentation by restoring natural stream function and stability along one mile of the Battle Creek River. The restoration project will use innovative methods to study the evolution of a river before and after dam removal. This case history will be used to promote further stream restoration efforts and as a tool for local education and on a statewide basis.

3) Sand Point Shoreline Stabilization Project: \$100,000

Keweenaw Bay Tribe of Chippewa Indians. Contact: Michael Donofrio, mondonofri@up.net

A 6-10 inch soil and vegetative cap will be placed over stamp sand sediments that are contaminating Sand Point. Native grasses will be planted over the cap. This soil and vegetative cap will improve the water quality of Lake Superior by preventing the further migration of contaminated stamp sands into Lake Superior, resulting in a reduction of contaminant loading and thus improving the benthic environment.

4) St. Martin's Hill Erosion Control Demonstration Project-Phase II: \$110,385

Alger Conservation District. Contact: Danita Rask, Danita-rask@mi.nacdn.net

To reduce erosion and sedimentation on St. Martin's Hill, a combination of hard and soft bioengineering practices and native plantings will be installed. These will increase infiltration and absorbance of storm water, and slow runoff velocities and quantities. Escaping sediments will be captured in detention basins while the practices are installed and vegetation becomes established.

5) Streambank Restoration and Erosion Control in the Rouge River Watershed: \$105,200

Office of the Oakland County Drain Commissioner. Contact: Phillip Sanzica, sanzicap@co.oakland.org

This project will implement a total stream bank bioengineering restoration/stabilization in a Class 1 stream area in the Franklin

subwatershed of the Rouge River. The project will also involve long-term monitoring of water quality improvements and the geomorphological stability of the area following implementation, which will contribute to the knowledge available for future project design within this watershed and throughout the nation.

New York

6) Controlling Sediment in the Black and Oatka Creek Watersheds: \$99,450

Genesee/Finger Lakes Regional Planning Council. Contact: David Zorn, dzorn@frontiernet.net

The Genesee/Finger Lakes Regional Planning Council will work with the Monroe County Planning Department, the Genesee County SWCD and the Black Creek Watershed Committee to conduct an informational meeting in each of the 13 municipalities that have significant land area in the Black Creek watershed. A riparian corridor analysis will produce recommendations for riparian corridor erosion and sediment control. An erosion and sediment control assessment and analysis will be conducted and all water quality/resource issues will be identified and prioritized for future implementation.

Ohio

7) Restoring Lake Erie Sands Resources: \$100,000

Ohio Department of Natural Resources, Division of Geological Survey. Contact: Donald E. Guy Jr., Don.Guy@dnr.state.oh.us

This project will demonstrate that recovering clean sand from the Cleveland confined disposal facility and placing it in the nearshore region of Lake Erie is a safe, practical and cost-effective way to nourish the littoral system. The result is anticipated to be reduced erosion and turbidity east of Cleveland.

Pennsylvania

8) Baker Creek Sediment Reduction through Reduced Runoff: \$98,000

Borough of North East. Contact: Jerry Weinheimer, 814-725-8611

This project will convert an impervious downtown municipal lot into an attractive green parking lot, incorporating a streamside buffer zone with native plantings, a bioretention area, porous pavement, and a creekside pedestrian walkway. This parking lot will demonstrate how the negative effects of urban runoff and nonpoint source pollution can be reduced in older, developed areas where space is limited.

9) West Branch Cascade Creek Restoration Project: \$100,000

Erie County Conservation District. Contact: LeRoy Gross, eriecons@adelphia.net

The project will reduce bank scour and resulting downstream sedimentation from the west branch of Cascade Creek by installing a plunge pool at the outfall end of the existing stream section and installing natural channel improvements along the stream's banks.

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Large-Scale Projects

(continued)

2004 Projects

Wisconsin

10) Menomonee Valley Soil Erosion and Sediment Control Project: \$100,000

Menomonee Valley Partners, Inc.. Contact: Lilith Fowler, lilith@renewthevalley.org

The project will regrade and stabilize 2,200 linear feet of riverbank to reduce the amount of sediment that enters the Menomonee River.

It will also demonstrate that erosion control and storm water treatment can provide assets to a community rather than simply be a liability to development. Specifically, audiences will be educated about the project and its benefits through signs that will be viewed by a potential 250,000 site visitors per year. The project will also provide erosion control information to approximately 150 local developers.

Small-Scale Projects

listed by state

Illinois

1) Waukegan River Private Property Erosion Control Project: \$8,000

Waukegan Harbor Citizens' Advisory Group. Contact: Jean Schreiber, jbschreiber@comcast.com

Waukegan Harbor Citizens' Advisory Group and the Waukegan Park District will sponsor five workshops to inform Waukegan River property owners about erosion control, including a demonstration of erosion control techniques. They will also create a digitally formatted laminated photographic aerial display, and design and produce four posters, two demonstrating simple erosion control methods and two more illustrating before-and-after conditions.

ings, one each quarter, to provide Indiana conservation districts and other interested parties with information on how lake basin-focused organizations have developed in the other Great Lakes states, and allow interested Indiana groups to explore methods to form an Indiana alliance.

Indiana

2) Great Lakes Sediment Reduction: \$35,000

National Association of Conservation Districts, Great Lakes Committee. Contact: Scott Hoese, sfhoese@aol.com

The NACD Great Lakes Committee will improve/revise its sediment reduction goal for the Great Lakes based on information gleaned at a March 2, 2004 sediment reduction workshop and follow-up activity.

Michigan

5) Big Cannon Restoration Project: \$30,000

Kalkaska Conservation District. Contact: Russ LaRowe, Kswcd@torchlake.com

The Kalkaska Conservation District will repair eleven critical sites along Big Cannon Creek in accordance with the Upper Manistee River Restoration Committee's scientific evaluation and proposed solutions.

3) High Dive Park / Christiana Creek Bank Restoration: \$30,000

City of Elkhart / Department of Parks and Recreation. Contact: Terry Cegielski, terry.cegielski@coelkhartindiana.org

The project will stabilize Christiana Creek by installing biologs along with native plant material. The proposed plant material has the ability to filter out contaminants at a much higher rate than non-native plant material, thus improving the water quality and increasing its value to the overall health of the environment.

6) Detroit River - Gibraltar Bay Shoreline Reconstruction and Erosion Control: \$30,000

Grosse Ile Nature and Land Conservancy. Contact: Bruce Jones, 734-676-6657

Approximately 97 percent of the coastal wetlands along the Detroit River have been lost to development. Therefore, there is an urgent need to protect existing coastal wetlands and rehabilitate degraded ones, particularly in light of the establishment of the new Detroit River International Wildlife Refuge. This project will complete native shoreline rehabilitation along the Detroit River shoreline of the Grosse Ile Nature Area (Gibraltar Bay) using soft engineering techniques.

4) Indiana Great Lakes Watershed Alliance Investigation: \$3,750

Elkhart County Soil and Water Conservation District. Contact: Nancy Brown, nancy-brown@iaswcd.org

The problem in the Indiana portion of the Great Lakes watershed is that there is no mechanism to coordinate watershed protection efforts. The Elkhart County SWCD will host a series of four meet-

7) Evaluation of Erosion Control Best Management Practices in Streams: \$46,100

Conservation Resource Alliance. Contact: Laura Kuehn, cralaura@chartermi.net

This project will use an interdisciplinary, collaborative framework to develop practical, reproducible and transferable methods of evaluating the impacts of erosion control BMPs.

Continued on page 4

2004 Projects

Small-Scale Projects

(continued)

8) Kalamazoo River Education Initiative: \$29,833

Calhoun Conservation District. Contact: Tara Egnatuk, tara-smith@mi.nacdn.net

This project will provide teachers with the knowledge, experience and tools to enable them to better instruct their students on stream ecology concepts, surrounding land use, water quality issues and watershed science. Through this grant, students will plan, implement, and analyze a scientific investigation. They will then share the results with their community and learn to take action through a variety of avenues.



Bundles of branches, known as fascines, are used in combination with rock riprap, vegetative mattresses and live plantings to stabilize the shoreline of the Detroit River as part of a 2001 GLBP-funded project. Photo: Detroit-Wayne County Port Authority.

9) Living on Edge: Shoreline Management Workshop: \$16,280

Huron River Watershed Council. Contact: Laura Rubin, lrubin@hrwc.org

In order to assist communities in reducing soil erosion and nutrient loading from landscaping practices, the Huron River Watershed Council's "Living on the Edge" workshop series will be expanded. The workshops will include presentations, site visits and a guidebook, and will provide homeowners with an awareness of their impact on the watershed and how they can reduce that impact, along with the skills to do so. The workshops will increase homeowners' awareness, sense of responsibility, and intent to implement responsible shoreline management techniques. Follow-up evaluations will determine if participants implemented suggested changes for the 2005 planting season.

10) Muskegon Lake AOC Urban Sediment Project: \$30,000

Timberland Resource Conservation & Development Area Council, Inc. Contact: Kathy Evans, kevansrcd@aol.com

This project will correct the effects of urban runoff, soil erosion and sedimentation at three highly visible sites within the Muskegon Lake Area of Concern. It will build a local network and coalition of partners who will demonstrate that urban runoff and soil erosion need to be addressed because they are important causes of water quality and aquatic habitat impairments. The project will imple-

ment corrective measures and transfer information on three distinct BMP systems that will be demonstrated for usefulness in other local watershed sites to address 1) storm outfall erosion, 2) excessive flow and sedimentation and 3) the lack of storm water percolation due to impervious areas.

11) Polymer Effectiveness on Drain Maintenance and Improvement Projects: \$30,000

Remy Chandler Intercounty Drainage Board. Contact: Hope M. Croskey, hope@spicergroup.com

The project will demonstrate the effectiveness of polymers in controlling suspended sediments in an in-line sediment basin during the 2004 Drain Construction and Maintenance Project for Remy Chandler Intercounty Drain. The use of polymers is an emerging technology to remove suspended solids from flowing water. The sediment is entwined and chelated, then collected through gravity or filtration and removed from the system. The demonstration site will be used to gather data to evaluate the volume of polymer necessary over a range of stream flows and compare the cost of implementing this technology against construction of temporary off-line sediment basins.

12) Saving a Park Streambank: Stemming Soil Erosion with a Native Buffer: \$7,773

Friends of the Rouge. Contact: Carolyn McCaughey, Managingdirector@therouge.org

The project will reduce soil erosion by creating a 25-foot-wide streambank buffer of native plants and shrubs along a 75-foot stretch of the Rouge River in Shiawassee Park. Results will be used to educate other riparian landowners – local government and the general public alike – about the benefits of creating buffers along riparian corridors.

13) Stabilizing Nutrient-Rich Farm Land in the Great Lakes Basin: \$29,616

Michigan State University. Contact: Tim Harrigan, harriga1@msu.edu

The project will conduct two on-farm demonstration sites and two major field days designed to integrate aeration tillage, soil conservation, and environmentally responsible manure use within the whole-farm system.

14) Trapp Farm Wetland Rehabilitation/Sediment Control Project: \$30,000

Grand Traverse Regional Land Conservancy. Contact: Chris Sullivan, csullivan@grtlc.org

The problem at this site is excess storm water runoff due to a network of mostly straight ditches on the farm, resulting in sedimentation of the North Branch of Cold Creek and Crystal Lake. After significant rain events, large, visible sediment plumes enter the lake from the mouth of Cold Creek in spite of a 9,750 cubic foot retention basin that was constructed in 1975 to intercept sediments prior to entering Crystal Lake. This project will remove man-made drainage features on former farm land to restore a rich conifer

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Small-Scale Projects

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2004 Projects

swamp and shrub-scrub wetlands in areas where these community types previously existed (approximately 13 acres). This is anticipated to allow storage of 80 percent of runoff to increase residence time, clean the water and remove nutrients.

15) Watervliet Sediment and Erosion Control Demonstration Center: \$32,000

City of Watervliet. Contact: Brian Dissette, bdissette@i2k.com

This project, located along the banks of the Paw Paw River, will incorporate porous pavement, rain gardens and interpretive signs to increase awareness of "green" development techniques within the City of Watervliet. The project will incorporate one of the community's greatest natural resources, the Paw Paw River, to attract users to the site.

Minnesota

16) Construction Site Erosion and Sediment Control Field Courses: \$19,900

Minnesota Erosion Control Association. Contact: Mikael Isensee, misensee@mnerosion.org

The Minnesota Erosion Control Association is coordinating four one-day erosion and sediment control field seminars in the Great Lakes watershed from August 2004 to August 2005. Each course will begin with a morning classroom session review of the new NPDES Phase II requirements and local regulations, a discussion of proper application and installation of the erosion and sediment control tools to be demonstrated, and the devastating results of incorrect installation.

17) Lake Superior SWCD Implementation Strategy: \$30,000

Lake Superior Association of SWCDs. Contact: Mark Thell, ccswcd@myexcel.com

There are currently several nonpoint source planning and implementation efforts underway in Minnesota's Lake Superior watershed. To address the erosion and sediment control elements of these plans, the Lake Superior Association (LSA) of SWCDs proposes to create a "Basin Implementation Strategy." A watershed-based LSA SWCD staff position will be contracted to provide leadership and staff support for the strategy, seek additional resources for the LSA and complete at least one erosion and sediment control project.

18) Realtor Education about Lake Superior and Land Use: \$4,390

University of Minnesota. Contact: Philip Monson, Monso044@umn.edu

This project will provide continuing education classes for realtors as required through the Minnesota Department of Commerce. Educating realtors becomes more important as land parcels along the north shore of Lake Superior undergo increased fragmentation. Many of these parcels are in locations vulnerable to erosion because of steep slopes and fragile soils. Realtors that are aware of the concerns about soil conservation, erosion prevention and associated issues provide more and better information to landowners.

19) Sediment Collection Demonstration Project: \$27,450

City of Duluth/Environmental Advisory Council/Utility Operations. Contact: Marnie Lonsdale, mlonsdale@ci.duluth.mn.us

The proposed project will establish a method to record the amount of sediment collected by Duluth city crews through street sweeping, storm line cleaning and sediment trap cleaning. A review of sand and yard waste collection programs of other communities will be conducted to identify effective programs that encourage public participation. A pilot collection program will be initiated in fall 2004 and spring 2005 in two separate neighborhoods in the city.

New York

20) Butternut Creek System Sediment Control Project: \$30,000

Onondaga County Soil and Water Conservation District. Contact: Jeffrey Carmichael, Jcarmichael@ocsxcd.org

Sediment control/stabilization measures will be constructed along and adjacent to target stream banks in the Butternut Creek system. Eroded banks will be sloped and shaped with vegetative plantings made to stabilize soils and eliminate sediment transport. Geomorphological structures, including rock J-hooks and cross vanes, will be constructed for downstream channel and bank stability. Follow-up activities will include landowner education to ensure adequate maintenance, use of the sites on a conservation tour and presentation of results at a Finger Lakes-Lake Ontario Watershed Protection Alliance conference.

21) Develop This! Planning to Keep Soil in Place: \$16,401

Central New York Regional Planning & Development Board. Contact: Pamela O'Malley, Pomalley@cnyrpd.org

The Central New York Regional Planning & Development Board will work with the New York State Department of State to plan, publicize and present a trio of three-hour workshops for municipal planning board members. Also, a full-day workshop in a central location for municipal employees will be held in March 2005. The board will reproduce and distribute 15,000 copies of its recently developed brochure, *Storm Water Pollution Prevention: The Influence of Construction Activities*, to all towns, villages and cities in the five-county central New York region.

22) Erosion caused by Ice - How Significant is the Contribution to Watershed Soil Erosion and Sediment Budgets? \$29,945

Buffalo State University. Contact: Kelly M. Frothingham, frothikm@buffalostate.edu

Ice jams and subsequent flooding of neighborhoods are events that routinely occur on Great Lakes tributaries. Invariably, these events cause stream bank collapse and loss of riparian land. Clearly, scouring of stream banks indicates large releases of soil and sediment into the stream. The goal of this project is to assess the role of ice scour for annual watershed sediment yield and its importance on stream bank erosion.

Continued on page 6

2004 Projects

Small-Scale Projects

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23) Erosion Control at Quaker Street Bridge: \$30,000

Erie County Department of Public Works. Contact: Brian Rose, roseb@erie.gov

Recurring streambank erosion due to poor channel alignment and gravel bar formation is causing excessive sediment transport and endangering the Quaker Street Bridge over Clear Creek in Collins, N.Y. The embankment material is sandy silt and erodes easily during high flows. The project will place medium-stone filling above the concrete cribbing to retain the embankment and slow the erosion. Americorps volunteers will plant Streamco willow poles within the rock and the gravel material.

24) Grazing System Practice Implementation Project: \$29,466

Seneca Trail Resource Conservation and Development Council, Inc. Contact: JoAnn Kurtis, senecatrailrcd@yahoo.com

The Seneca Trail RC&D Council, along with the Allegany, Cattaraugus and Wyoming county soil and water conservation districts, will assist seven livestock operations with the installation of livestock exclusion and/or alternative watering systems on their farms. This includes 23,700 feet of fencing, six controlled stream crossings, and seven alternative watering systems. Also, an information program will be held on each of the seven farms demonstrating the installed system, and its effectiveness and importance in reducing stream bank erosion and improving water quality.

25) Nonpoint Education for Planning and Zoning Boards of Appeal: \$9,150

Ontario County Soil and Water Conservation District. Contact: Thomas DeRue, Ontswcd1@rochester.rr.com

Ontario County SWCD, in cooperation with citizen-based lake associations and educational institutions or agencies in the western Finger Lakes region, will hold six workshops for planning and zoning board and zoning board of appeals members to increase their knowledge of soils, water quality protection issues, onsite wastewater treatment systems, storm water management on single home building lots and the effects of impervious surfaces on storm water runoff.

26) Practical Fluvial Geomorphology Workshops: \$15,265

Finger Lakes Resource Conservation & Development Council, Inc. Contact: Richard Winnett, sultrrcd@linkny.com

A pair of two-day workshops will provide an overview of stream channel processes and features from a fluvial geomorphology perspective, as well as appropriate field techniques to reduce erosion and sedimentation.

Ohio

27) Agricultural Land Use Mapping with Multitemporal Imagery: \$41,127

The University of Toledo. Contact: Kevin Czajkowski, kevin.czajkowski@utoledo.edu

The University of Toledo's Lake Erie Center will develop techniques using GIS and remote sensing tools to will help decisionmakers enhance environmental protection in the Great Lakes. This will

include the development and testing of a technique to derive conservation tillage practice from multitemporal, multispectral Landsat satellite imagery for the Portage and Sandusky river basins.

28) Boulder Creek Restoration Project: \$30,000

City of Solon. Contact: John Busch, jbusch@solonohio.org

The city will address problems along a 2,000 linear-foot reach of Boulder Creek through the geomorphic rehabilitation of approximately 300 linear-feet of stream. This will involve reducing bank height and re-establishing a floodplain bench at a lower elevation. The stream banks will be stabilized by reducing bank slopes, reinforcing the toe of the slope where necessary, and planting high-quality riparian vegetation.

29) Grand River Headwater Educational Project: \$29,256

Trumbull County Health Department. Contact: Ted Smith, tsmith@tcbh.org

The Trumbull County Health Department will partner with Lake Erie-Allegheny Earth Force using the theme, "This is my watershed - I can make a difference." The project will target approximately 150 middle school youth, their educators and watershed stakeholders. Participants will be exposed to a problem-solving approach to assess the watershed in which they live.

30) Grass/Legume Demonstration Plots to Prevent Soil Erosion: \$28,148

University of Findlay/Ohio State University Extension. Contact: Gary W. Wilson, wilson.26@osu.edu

Pasture management is a key to preventing soil erosion on small livestock and horse-grazing farms. Grass/legume demonstration plots will be established at the University of Findlay Center for Equine and Pre-Veterinary Studies, and various grass/legume mixtures will be evaluated for persistence, yield, and quality.

31) Stream and Wetland Mitigation to Reduce Erosion and Sedimentation: \$28,700

Chagrin River Watershed Partners, Inc. Contact: Kyle Dreyfuss-Wells, kdw@crwp.org

Chagrin River Watershed Partners (CRWP) will minimize the impacts of development activities, including erosion and sedimentation, in the Chagrin River watershed through a combination of headwater stream landowner education and stream and wetland restoration. This will be accomplished through landowner contact, including the distribution of biological and water quality data, along with recommendations for maintaining or improving stream quality in the Upper Main Branch of the Chagrin River. The project will address all properties on which CRWP conducted previous headwater stream surveys, as well as upstream and downstream landowners. In addition, CRWP will host two workshops, one for landowners and the second for the development community, at which stream and wetland restoration sites will be identified.

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Small-Scale Projects

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2004 Projects

Pennsylvania

32) Raising Awareness of Long-Term Sediment Loading, Presque Isle Bay: \$29,521

School of Science, Penn State Erie – The Behrend College. Contact: Anthony Foyle, amf11@psu.edu

This project will fill a major data gap in the understanding of sedimentation in Presque Isle Bay and communicate that new knowledge through informational/educational brochures and poster displays, a workshop, two conference papers, and at least one peer-reviewed journal publication. Filling the data gap will provide critical components required for effective sedimentation and contaminant-concentration modeling.



Removing debris and restoring trout habitat on Michigan's Upper Tahquaemenon River in 2000. Photo: Tahquaemenon Sportsman's Club.

33) Restoration of Duck Run on the Coho State Park Site: \$30,000

Lake Erie Region Conservancy. Contact: Cathy Pedler, cpedler@mercyhurst.edu

The project team will conduct a baseline assessment of Duck Run stream and its riparian zone to quantify sediment loading rates during precipitation events. They will design a rehabilitation plan for the degraded riparian area through stabilization and re-establishment of native vegetation. They will also monitor stream macroinvertebrate communities, sediment loading rates and vegetation in treated areas during and following the execution of specific erosion and sediment control measures. Stakeholders will be involved in restoration planning, implementation, and monitoring.

Wisconsin

34) Develop a Jobsite Planning Checklist, Brochure, and Powerpoint Presentation: \$9,580

Forest Industry Safety & Training Alliance, Inc. Contact: Barbara M. Henderson, fista1@newnorth.net

Wisconsin's loggers and foresters lack information on the issues that affect water quality in the woods, and need a streamlined format they can use when setting up their timber sales to ensure

maximum protection of water quality. The project will produce 500 Powerpoint CDs, 5,000 full-color brochures, and 10,000 copies of the Jobsite Planning Checklist for distribution to loggers, foresters, and land managers.

35) Root-Pike Basin Project: \$25,090

Root-Pike Watershed Initiative Network (WIN). Contact: Allison Werner, info@rootpikewin.org

The project will prepare and distribute materials about the Root-Pike River by designing, writing, and distributing two newsletters in 2004-05. A total of 2,000 newsletters will be distributed. Also, a watershed tour will be conducted to highlight several projects to which Root-Pike WIN has awarded grants in each county it works.

36) Storm Water BMPs for Lake Superior Clay Soils: \$15,525

Douglas County Land Conservation Department. Contact: Diane Daulton, ddaulton@centurytel.net

This project will evaluate existing storm water best management practices to determine their applicability to the clay till soils and cold climate of the Lake Superior clay plain. It will also identify other practices adapted to these conditions and determine if further research is necessary to adopt them. The project team will prepare a report listing practices and research needs for inclusion in the Best Management Practice Guidelines for the Wisconsin portion of the Lake Superior basin and provide the information to the public through the Lake Superior Basin Nonpoint Source Education project.

37) Town of Centerville Harvestable Buffer Strip Project: \$24,044

Town of Centerville. Contact: Russ Tooley, tooley@lakefield.net

The Town of Centerville will work with landowners along Fischer and Point creeks to construct a total of four miles of 70-foot harvestable buffers. The town will also educate landowners about the benefits of buffers with a brochure and provide a demonstration at harvest time. The buffers will be planted in the fall of 2004 and harvested for demonstration purposes in the spring of 2005.

38) Winnebago County Erosion Control & Storm Water Management: \$11,643

Winnebago County Land & Water Conservation Department. Contact: Chad Casper, ccasper@co.winnebago.wi.us

The project will support a pair of one-day workshops. One will focus on compliance with the existing Erosion Control & Storm Water Management Ordinance in Winnebago County and include a tour of an erosion control demonstration site. The second will focus on storm water management issues targeted to elected officials, designers and developers. Field inspections will be conducted on all erosion control/storm water permits issued by the Land and Water Conservation District (LWCD) to monitor compliance with the ordinance and a half-day interagency meeting will be held to work towards streamlining the local permitting process. The LWCD will prepare a full-color, four-fold informational brochure covering erosion control practices, installation, operation and maintenance.

Of Interest ...

Workshops and Conferences

If you have an item for the next quarter, please contact **Jennifer Read** at 734-971-9135 or jread@umich.edu

September 8-10

NACD Urban, Community and Coastal Resources Committee Meeting
Location: Muskegon, Michigan
Contact: Debra Bogar
Phone: 303-988-1893
Email: deb-bogar@nacdnet.org

12-15

Self-Sustaining Solutions for Streams, Wetlands, and Watersheds
Location: St. Paul, Minnesota
Contact: Barbara Sowden
Phone: 269-428-6327
Web: www.asae.org/meetings/streams2004/Index.html

28 - 30

NACD 2004 State Executive Directors' Retreat
Location: Columbus, Ohio
Contact: Fred Hammon
Phone: 614-265-6614
Email: fred.hammon@dnr.state.oh.us

October 4-5

2004 Annual Meeting of the Great Lakes Commission
Location: Toronto, Ontario
Contact: Mike Donahue
Phone: 734-971-9135
Email: mdonahue@glc.org

6-8

2004 State of the Lakes Ecosystem Conference
Location: Toronto, Ontario
Contact: SOLEC@ec.gc.ca

November 6-17

NACD Great Lakes Committee Fall Meeting
Contact: Jen Read
Phone: 734-971-9135
E-mail: jenread@umich.edu

6-18

Safe Water: At What Cost?
Location: Sault Ste. Marie, Ontario
Contact: Angie Wagner
Phone: 705-541-5762
E-mail: awagner.ulern@nrcan.gc.ca

December 6-10

First National Conference on Ecosystem Restoration
Location: Orlando, Florida
Contact: G. Ronnie Best
Phone: 305-903-5743
E-mail: Daniel.J.Hayes@saj02.usace.army.mil

15

Ohio Lake Erie Commission Quarterly Meeting
Location: Columbus, Ohio
Contact: Jill Woodyard
Phone: 419-245-2514
E-mail: jill_woodyard@ameritech.net



Great Lakes Commission
Eisenhower Corporate Park
2805 S. Industrial Highway, Suite 100
Ann Arbor, MI 48104-6791
www.glc.org

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