

**SUMMARY OF
BIOLOGICAL AND ENGINEERING PROJECT
GRANT AWARDS FOR
FISCAL YEAR 2009-2010**

LAKE AND RIVER ENHANCEMENT PROGRAM
IDNR Division of Fish and Wildlife

Monitoring Study

Indian Creek (Johnson, Morgan) The Johnson County Soil & Water Conservation District will conduct a monitoring study including water chemistry, physical habitat and biological assessment to guide effective best management practices at sites throughout the 60,049 acre watershed. Information on nutrient and sediment loads will complement bacterial sampling from a Total Maximum Daily Load (TMDL) study and a Watershed Management Plan funded by Section 319 from the Indiana Department of Environmental Management. Total cost of the project is estimated to be \$30,000.

Grant: Up to \$27,000 for program evaluation and that a detailed scope of services be prepared by the sponsor for approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 10% of the total cost of the project.

Sponsor contact: Ric Schlosser, Director
Phone: 317-736-9540
ric-schlosser@iaswcd.org

LARE Staff Contact: Angela Sturdevant, 317-234-4906, asturdevant@dnr.IN.gov

Watershed Diagnostic Study

Lower Lost River Diagnostic Study (Martin, Orange, and Dubois) The Martin County Soil & Water Conservation District has requested funds to create baseline water quality information in this 45,842 acre watershed to evaluate existing conservation practices and prioritize additional project areas. The district has partnering with the Lost River Flood Task Force to identify ways to reduce soil erosion and flooding impacts in the watershed. Both counties have lost numerous acres of top soil and associated nutrients, crops, one life, and a roadway due to flood damages. The results would supplement existing efforts in adjacent watersheds. The total estimated cost of the effort is \$42,000.

Grant: Up to \$37,800 for the work described in the grant application and that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor contribute a minimum of 10% of the total cost of the project.

Sponsor contact: Teresa Harder, District Coordinator

Martin County SWCD
Phone: 812-247-2423
matinswcd@yahoo.com

LARE Staff Contact: Angela Sturdevant, 317-234-4906, asturdevant@dnr.IN.gov

Watershed Management Plan

Brandywine Creek (Hancock) The Hancock County Soil & Water Conservation District is concerned about possible contaminant loads of bacteria from animal waste, sediments from land use and flood erosion, and excess nutrients in four 12-digit HUC subwatersheds totaling 68,272 acres. The project would benefit from public participation that has been generated from a similar effort on other watersheds in the county. LARE funds would be used to complement existing water quality data and consolidate information from various sources to prepare a watershed management plan that complies with both IDNR and IDEM Section 319 requirements for implementation funding eligibility. The total estimated cost of the effort is \$75,000.

Grant: Up to \$67,500 for the work described in the grant application and that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor contribute a minimum of 10% of the total cost of the project.

Sponsor contact: Cindy Newkirk, District Administrator
Hancock County SWCD
Phone: 317-462-2283, extension 3
cindy.newkirk@in.nacdnet.net

LARE Staff Contact: Gwen White, 317-234-4407, gwhite@dnr.IN.gov

Lake Diagnostic/Engineering Feasibility Study

Simonton Lake (Elkhart) The Simonton Lake Homeowners' Association has expressed interest in a combination diagnostic/engineering feasibility study to address the 5,233 acres comprising the watershed draining to this 303 acre lake. The diagnostic portion would address water quality, aquatic plant surveys, shoreline erosion, sources of nonpoint pollution, and recommendations. The feasibility study would include targeting at least two practical conservation projects to obtain landowner and regulatory approval for design and to establish a baseline for monitoring water quality changes. The total cost of a study is estimated to be \$35,000.

Grant: Up to \$31,500 a diagnostic/engineering feasibility study, that a detailed scope of services be prepared by the sponsor for approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 10% of the total cost of the study.

Sponsor contact: William Broderick

Phone: 574-264-4152
susiealice@comcast.net

LARE Staff Contact: Kent Tracey, 260-244-7470, ktracey@dnr.IN.gov

Engineering Feasibility

Baugo Creek (Elkhart) The Elkhart County Drainage Board is requesting funding to apply Rosgen's Watershed Assessment of the River Stability and Sediment Supply (WARSSS) methodology to the Baugo Creek Watershed. The long term goal of this study would be to identify feasible projects in the watershed that will contribute to long term stability of the creek. The National Fish and Wildlife Foundation has already awarded a grant to this project to assist in the study and construction of identified projects.

Grant: Up to \$62,000 be awarded for an engineering feasibility study, that a detailed scope of services be prepared by the sponsor for approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 10% of the total cost of the study.

Sponsor contact: Blake Doriot or Steve Schweisberger, Elkhart County Surveyor and Deputy Surveyor
Phone: 574-875-3380
sschweisberger@elkcosurveyor.org

LARE Staff Contact: Doug Nusbaum, 260-244-5613, dnusbaum@dnr.IN.gov

Dewart Lake (Kosciusko) The Dewart Lake Protective Association is requesting funds to conduct a feasibility study in the Cable Run subwatershed. A 2005 Diagnostic study of this 2,158 acre watershed comprises 43% of the total lake's drainage area. This study indicated that during high flow events the stream possessed elevated levels of E.coli and nitrogen levels. The feasibility study would look at various BMPs that could be installed in the Cable Run watershed to reduce the amount of pollutants entering the lake.

Grant: Up to \$27,000 be awarded for an engineering feasibility study, that a detailed scope of services be prepared by the sponsor for approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 10% of the total cost of the study.

Sponsor contact: Dewart Lake Protective Association
c/o Gary Hogle, Co-chair, Water Quality Committee
gary.hogle@gmail.com

LARE Staff Contact: Doug Nusbaum, 260-244-5613, dnusbaum@dnr.IN.gov

Engineering Feasibility / Design

Big Creek (Posey) The Posey County Drainage Board is requesting funds to investigate the feasibility of three projects. The board is requesting funding to determine the most feasible design that utilizes natural materials such as root wads, crib walls or other bioengineering techniques to stabilize bank erosion and reduce down cutting of the stream. Opportunities to increase riffle and pool habitat will also be included in the designs.

Grant: Up to \$54,000 be awarded for the work described in the grant application, that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 10% of the total cost of the project.

**Sponsor contact: Posey County Drainage Board
c/o Paul Breeze, County Surveyor
Phone: 812-838-1340
Poseysurveyor@yahoo.com**

LARE Staff Contact: Doug Nusbaum, 260-244-5613, dnusbaum@dnr.IN.gov

Dillon Creek - Lake Wawasee (Kosciusko) Wawasee Area Conservancy Foundation has requested funding for Dillon Creek. Along the WACF Anderson and Kelly woods (upstream from Enchanted Hills), has cut banks serving as one of the causes of the sedimentation to Wawasee. There are areas in the woods that form tributaries to Dillon. The problems: size of subwatershed (Dillon Creek drains water from 3,423 acres), grade drop (over 90 feet), and erodable soils. To be able to help 'manage' the sedimentation, we need to control both the grade near the stream, increase water holding capacity, and erosion. The preliminary work proposed for design includes: grade control structures such as hardened riffles or Rosgen type rock wiers and J-hooks; Palmiter methods of bank strabilization using woody debris available at the site or constructing crib walls and vegetated lift structures; and the development of floodplain storage using constructed ponds or wetlands. The total estimated cost of the effort is \$30,000, of which the sponsor would be willing to pay 10%.

Grant: Up to \$27,000 be awarded for the work described in the grant application, that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 10% of the total cost of the project.

**Sponsor contact: Wawasee Area Conservancy Foundation, Inc.
Heather Harwood, Executive Director
Phone: 547-457-4549
info@wacf.com**

LARE Staff Contact: Kent Tracey, 260-244-7470, ktracey@dnr.IN.gov

Design

Clear Lake (Steuben) The Clear Lake Township Land Conservancy Inc is requesting funding for a design study for the Clear Lake watershed area. The primary focus initially is the area directly south of Clear Lake encompassing the Cyrus Brouse Ditch. There are various activities that are possible in this area that would be helpful in reducing the sediment and nutrient loading into Clear Lake. Over the past few years they have experienced an increase of sediment and nutrient loading at the outflow of the Cyrus Brouse ditch into Clear Lake. Because of the increased sediment coming into the lake, the water level has decreased to approximately 1 foot in depth and this has extended out into the lake about 100 feet. There has also been a significant increase of algae and weeds in this area in the past year. This sediment and nutrient loading has affected most of this basin area. The total estimated cost of the effort is \$50,000, of which the sponsor would be willing to pay 10%.

Grant: Up to \$45,000 be awarded for the work described in the grant application, that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 10% of the total cost of the project.

**Sponsor contact: Clear Lake Township Land Conservancy, Inc.
c/o Joseph Schenkel, Treasurer
Phone: 260-489-5355
jschenkel@hotmail.com**

LARE Staff Contact: Kent Tracey, 260-244-7470, ktracey@dnr.IN.gov

Design / Build

Blue Lake (Whitley) The Blue Lake Association is requesting funding to design/build on sites 3.1 and 3.2 that were identified in the 2008 engineering feasibility study. Site 3.1 would be for streambank stabilization of small unnamed tributary at a 90 degree bend. Site 3.2 would be for construction of three grade stabilization structures to be place in the same tributary upstream of the lake to help reduce down cutting caused by the gradient in the stream.

Grant: Up to \$13,000 be awarded for the work described in the grant application, that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 25% of the total cost of the project.

**Sponsor contact: Blue Lake Association, Inc.
c/o Robert Strite, Secretary
Phone: 260-460-0820
r9617s@verizon.net**

LARE Staff Contact: Doug Nusbaum, 260-244-5613, dnusbaum@dnr.IN.gov

Dewart Lake (Kosciusko) The Dewart Lake Protective Association is requesting funding to complete a bioengineered seawall at two separate locations using a minimum of three different techniques located at the Camp Ella Logan Girl Scout property.

Grant: Up to \$22,500 be awarded for the work described in the grant application, that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 25% of the total cost of the project.

Sponsor contact: Dewart Lake Protective Association
c/o Gary Hogle, Co-chair, Water Quality Committee
gary.hogle@gmail.com

LARE Staff Contact: Doug Nusbaum, 260-244-5613, dnusbaum@dnr.IN.gov

Pretty Lake (LaGrange) The Pretty Lake Conservation Club is requesting funding for 5 project sites identified in the 2009 Engineering Feasibility Study. Three sites will be re-constructing road side ditches that are gullied and down cutting depositing soil into the lake. One site will be reconstruction of a failed catch basin. A fifth site **is not recommended for funding.**

Grant: Up to \$17,200 be awarded for the work described in the grant application, that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 25% of the total cost of the project.

Sponsor contact: Pretty Lake Conservation Club, Inc.
c/o James Mertz, Treasurer
Phone: 260-351-3404
fisherman050440@yahoo.com

LARE Staff Contact: Doug Nusbaum, 260-244-5613, dnusbaum@dnr.IN.gov

Construction

Black Creek - Hamilton Lake (Steuben) The Hamilton Lake Association request funding for an engineering constuction project which will provide streambed stabilization along Black Creek. Six eroded areas will be protected using bio-engineering methods including, bendway weirs, tree revetment and willow stakes. Using methods recommended in the Black Creek Restoration Plan – Engineering Design Study prepared by Williams Creek Consulting. Black Creek is the major tributary feeding the lake. The design for this project has been completed and the estimated cost is \$68,900.

Grant: Up to \$51,675 be awarded for the work described in the grant application, that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 25% of the total cost of the project.

**Sponsor contact: Hamilton Lake Association
c/o William Dillon, Vice-President
Phone: 260-485-0172
wjdillon@hotmail.com**

LARE Staff Contact: Kent Tracey, 260-244-7470, ktracey@dnr.IN.gov

Little Crooked Lake (Kosciusko) The Tippecanoe Watershed Foundation and the Crooked Lake Association is requesting funding for four water quality improvement projects located adjacent to State Road 9 and entering Little Crooked Lake. The project will be to install two rock lined channels, one with an alternate sale, a rain garden and a native buffer with vegetated swale based on the design included in the completed feasibility design study. The design for this project has been completed and the estimated cost is \$46,859.

Grant: Up to \$35,145 be awarded for the work described in the grant application, that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 25% of the total cost of the project.

**Sponsor contact: Tippecanoe Environmental Lake and Watershed Foundation
c/o Lyn Crighton, Executive Director
Phone: 574-834-3242
telwf@kconline.com**

LARE Staff Contact: Kent Tracey, 260-244-7470, ktracey@dnr.IN.gov

Village Lake (Kosciusko) The Wawasee Conservancy Foundation is seeking funds to continue stabilization work on an unnamed tributary into Village Lake. Funding was awarded last year to complete the design of bioengineered bank stabilization and to create a sediment trap at the outlet of the stream. Due to IDEM not permitting the sediment trap funding for that will be included with this project to stabilize the upper reaches of this stream.

Grant: Up to \$46,875 be awarded for the work described in the grant application, that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 25% of the total cost of the project.

**Sponsor contact: Wawasee Area Conservancy Foundation, Inc.
Heather Harwood, Executive Director**

Phone: 547-457-4549
info@wacf.com

LARE Staff Contact: Doug Nusbaum, 260-244-5613, dnusbaum@dnr.IN.gov

Little Elkhart Creek (LaGrange) The Five Lakes Conservation Association is requesting funding to stabilize 300 feet of stream bank on the east side of State Road 9 (in the town park) to reduce future sedimentation to Witmer Lake that was identified in the 2007 engineering feasibility study. Tree revetments along with native plant buffers will be included in the construction.

Grant: Up to \$13,500 be awarded for the work described in the grant application, that a detailed scope of services be prepared by the sponsor for the approval by LARE staff prior to initiation of any work, and that the sponsor pay a minimum of 25% of the total cost of the project.

**Sponsor contact: Five Lakes Conservation Association, Inc.
c/o Robert Christen, President
Phone: 260-637-1856
rclc.2@juno.com**

LARE Staff Contact: Doug Nusbaum, 260-244-5613, dnusbaum@dnr.IN.gov