Project Name: **Eagle Creek Water Control Structure Replacement**  
Project Sponsor: **Collier County Natural Resources**  
Contact Person: **Jerry Kurtz**  
Address: **2800 N. Horseshoe Dr., Naples, Fl 34104**  
Phone: **(239) 252-5860**  
Email: **GeraldKurtz@colliergov.net**

Project Type according to the **Allowable Uses** for RESTORE Act Funds:

- Restoration and protection of the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, and coastal wetlands of the Gulf Coast region
- Mitigation of damage to fish, wildlife, and natural resources
- Implementation of a federally approved marine, coastal, or comprehensive conservation management plan, including fisheries monitoring
- Workforce development and job creation
- Improvements to or on State parks located in coastal areas affected by the Deepwater Horizon oil spill
- Infrastructure projects benefitting the economy or ecological resources, including port infrastructure
- Coastal flood protection and related infrastructure
- Activities to promote tourism and seafood in the Gulf coast region

The Board of County Commissioners has adopted **Guiding Principles** relating to project proposals:

1. Projects provide positive environmental and economic benefits, including job creation.
2. Projects are consistent with local government comprehensive plans and community priorities.
3. Projects incorporate other funding partners to fully leverage grant resources.
4. Projects meet the funding criteria set forth in the RESTORE Act.
5. Projects selected will be diverse and address all our community’s eligible needs, including coastal and ecosystem restoration and development, flood protection, and tourism promotion.

Project location (attach map if applicable):

Project Description (describe how the proposal applies to an Allowable Use & a Guiding Principle)

Total Cost: Additional Funding Partners or sources of matching funding if available (RESTORE Act funds):

Suggested implementation timeline:

Mail completed form to:  
William Lorenz, Director  
Natural Resources Department  
2800 North Horseshoe Drive  
Naples, Fl 34104

For additional information please call 239-252-2951 or 239-252-8113
PROJECT LOCATION:

The Eagle Creek Weir (C4C-00-S0110) is located on the north side of Tower Road approximately 0.5 miles west of Collier Boulevard.
PROJECT DESCRIPTION:

The Eagle Creek Weir (C4C-00-S0110) is located on the north side of Tower Road approximately 0.5 miles west of Collier Boulevard. This surface water control structure regulates discharge from the Eagle Creek development as well as the “C-4” canal also known as the “Price Street Outfall.” The structure consists of a fixed crest concrete structure with three (3) 30” H x 42” W slide gates (WACO, Model 5064, unseated, non-self contained weir gates) The weir crest is at elevation 3.5’ NGVD, with gate opening crests at elevation 1.0’ NGVD. The slide gates are designed to be overtopped so that the upstream water elevation is maintained by lowering the slide gate to the desired elevation. The current condition of the gate mechanism is poor. This project is being initiated to evaluate future measures to fix or replace the weir. An evaluation of the basin to verify discharge rate and peak flow will be included if a full replacement is warranted.

The structure was originally constructed in the 1970’s. The current inoperable condition of the gate mechanisms is of concern related to operational and maintenance issues. Adjustments which may be necessary for releasing water in preparation for a system pre-storm drawdown during the wet season or to handle peak stages due to excessive rainfall amounts have become difficult - flood protection control (RESTORE Act allowable use 7). As well, the gates may not allow for adjustment to meet the current water management objectives for dry season water supply storage, controlling fresh water discharges to Rookery Bay – natural resource protection (RESTORE Act allowable use 1 and 6).

Due to documented structural and mechanical deficiencies as well as operational and maintenance issues (2012 CH2M-Hill Report), this project is being initiated to first evaluate the existing conditions of the basin, verifying peak discharge rates and stages, and based on findings, recommend the degree of necessary remediation. Subsequent efforts will include
design, permitting and construction activities necessary for either weir gate mechanism replacement or entire weir replacement.

A new water control structure, including provisions for a more efficient system of operable control gates if warranted, will provide management flexibility for water conservation and replacing and/or improving this structure is a part of Collier County’s Stormwater Five-Year Capital Improvement Plan (RESTORE Act Guiding Principals 1, 2, &5).

TOTAL COST:

The project design and permitting effort has just started. Current cost estimates are conceptual based on data from similar recently completed projects. The analysis to be completed as part of the design process will assist with evaluation of the alternatives. An assessment of whether only the gate mechanism should be replaced versus a complete structure replacement will be made.

$80,000 - $600,000 (gates only replacement versus complete structure replacement)

SUGGESTED IMPLEMENTATION TIMELINE:

Design and permitting will continue through 2013. Should RESTORE Act funds become available, construction could begin sometime in 2014. Weather conditions will also need to be considered. This project will be initiated during the beginning of the dry season only. There is no land acquisition requirement associated with this project.