

1.5.F A Brief Assessment of the Success, Shortcomings and Recommendations related to the Conservation and Coastal Management Element

A. Introduction and Background

On April 6, 1996, Collier County adopted an Evaluation and Appraisal Report (EAR) for its local comprehensive plan. On November 14, 1997, the County adopted EAR-based amendments to its plan. On December 24, 1997, the Department of Community Affairs (Department) issued its Notice and Statement of Intent to find the County's EAR-based amendments not "in compliance" as defined in Section 163.3184(1)(b), Florida Statutes. During the ensuing process, the Conservation and Coastal Management Element (CCME) was revised and reorganized to better reflect the remedial actions required by the State of Florida Administration Commission's Final Order No. AC-99-002 issued on June 22, 1999. As a result, certain objectives and policies of the Conservation and Coastal Management Element have recently been updated.

Preparation of this Section of the Evaluation & Appraisal Report (EAR) involved coordination between Comprehensive Planning staff and the following departments: the Collier County Public Utilities Division, the Collier County Emergency Management Department and the Collier County Environmental Services Department. As currently formatted, this Element consists of three separate components, based upon the specific regulatory responsibilities assigned to the above-referenced agencies.

As part of the EAR-based amendments, Collier County is recommending the addition of a brief introductory statement for this Element. Also, the numbering of Goals, Objectives and Policies should be simplified.

B. Objective Analysis:

OBJECTIVE 1.1:

By August 1, 1994, the County will complete the development and implementation of a comprehensive environmental management and conservation program that will ensure that the natural resources, including species of special status, of Collier County are properly, appropriately, and effectively identified, managed, and protected.

Objective Achievement Analysis:

This deadline has been met by the Collier County Environmental Services Department. The Department operates the program described in the Objective. Collier County recommends that the text of this objective be revised to indicate that the deadline has been met, and to reflect that the implementation of the program is ongoing.

Policy Relevance:

Policy 1.1.1 requires the County to appoint, and establish operational procedures for a technical advisory committee to advise and assist the County in the activities involved in the development and implementation of the County Environmental Resources Management Program. This Policy needs to be revised to reflect the existence of the County's Environmental Advisory Committee (EAC) and that the name of the County Program has been changed to the Environmental Services Department.

Policy 1.1.2 mandates the adoption of land development regulations, pursuant to Chapter 163.3202, F.S, that incorporate the goals, objectives, and policies contained within this Element. As this has been accomplished, Collier County recommends that the EAR-based amendments include a revision to this policy to reflect current County programs.

Policy 1.1.3 requires the County to establish an Environmental Resources Management Program by January 1, 1990. Collier County recommends that this Policy be revised to reflect the existence of the current program.

Policy 1.1.4 requires the County to ensure adequate and effective coordination between the Environmental Resources Management Program staff and all other units of local government involved in land use activities and regulations. This Policy needs to be revised to reflect that the name of the County Program has been changed to the Environmental Services Department.

Policy 1.1.5 requires the County to avoid unnecessary duplication of effort and continue coordination and cooperation with private organizations and Regional, State, and Federal agencies. Collier County recommends that "organizations" be clarified to refer to conservation organizations.

Policy 1.1.6 requires that the County develop a conservation program that will equitably balance the relationship between the benefits derived and the costs incurred to both the public and private sectors. Collier County recommends that the EAR-based amendments include a revision to this policy indicating that such a program is in operation.

Policy 1.1.7 requires the County to annually implement revisions to its natural resources management and environmental protection standards and criteria as used in the Collier County land development review process. Collier County notes that the wording of the current policy is overly convoluted, and therefore recommends that the policy be revised for clarity.

Policy 1.1.8 is a repeat of Policy 1.1.7. Therefore, Collier County recommends that this policy be deleted.

OBJECTIVE 1.2:

Maintain the framework for an integrated, computer-based environmental resources data storage, analysis, and graphics system and annually update the databases based on

previous year's analytical data in order to monitor the status of the County's natural resources and propose potential protection measures when appropriate.

Objective Achievement Analysis:

The Collier County Environmental Services Department has incorporated a robust, GIS-based system (ESRI's ArcGIS) that is an integrated, computer-based environmental resources data storage, analysis, and graphics system, which can annually update the County's database(s) based on the previous year's analytical data in order to monitor the status of the County's natural resources and propose potential protection measures when appropriate. Therefore, Collier County recommends that this Objective be retained as written.

Policy Relevance:

Policy 1.2.1 requires that the County Environmental Services Department's GIS-based system be able to incorporate geographic information and/or data management systems currently utilized by the South Florida Water Management District, Southwest Florida Regional Planning Council, the Florida Department of Environmental Protection, and the Florida Natural Areas Inventory. This has been accomplished. Therefore, Collier County recommends that this policy be retained as written.

Policy 1.2.2 requires that the County coordinate data gathering with Federal, State and private resource management organizations to minimize duplication of effort and enhance the quality of information. This is an ongoing task. Therefore, Collier County recommends that this Policy be retained as written.

Policy 1.2.3 requires the County to collect and compile data that will be organized by established watershed and sub-basin units. The County database is organized in such a fashion. Therefore, Collier County recommends that this Policy be retained as written.

Policy 1.2.4 requires that the County make readily available to both public and private entities environmental resources data for the purpose of improving local environmental resources planning and management. The County's environmental database contains information that is available upon request, subject to fees that cover staff time and resources needed to produce the requested information. Therefore, Collier County recommends that this policy be retained as written.

Policy 1.2.5 requires that its GIS-based system be maintained by the County staff and updated on a cooperative basis by qualified public and private organizations. This policy should be modified for clarity.

OBJECTIVE 1.3:

Pursuant to Administration Commission Final Order AC-99-002 dated June 22, 1999, the County has completed the phased delineation, data gathering, management guidelines and implementation of the Natural Resources Protection Area (NRPA) program as part of the

required Collier County Rural and Agricultural Assessment. Through this Assessment, the County has determined that the NRPA program is not the only mechanism to protect significant environmental systems. Accordingly, within the Rural Lands Stewardship Area Overlay in the Future Land Use Element, the County has delineated Stewardship Sending Areas that will function to protect large environmental systems. Pursuant to the following policies, the County shall protect identified environmental systems through the NRPA and Rural Lands Stewardship programs.

Objective Achievement Analysis:

This Objective originally contained information and policies relative to the NRPA program. During 2002, the Objective was amended to include reference to the Rural Lands Stewardship Area Overlay. Therefore, this objective continues to be relevant and should be retained.

Policy Relevance:

Policy 1.3.1 requires the County to establish Natural Resource Protection Areas (NRPAs) to direct incompatible land uses away from significant environmental systems that exist at a landscape scale, contain large systems of connected wetland and upland habitats, and support a wide variety of listed species. The Policy also provides information regarding the relationship of the NRPAs to the Rural and Agricultural Area Assessment. Currently, there is also a note at the beginning of the Policy that explains that Final Order AC-99-002 is no longer in effect. Collier County recommends that this Policy be retained as currently written, but that the explanatory note should be removed.

Policy 1.3.2 establishes the purpose and description of the Rural Lands Stewardship Area (RLSA) Overlay and creates the stewardship credit system as the means for diverting development away from Flowway Stewardship Areas (FSAs), Habitat Stewardship Areas (HSAs) and Water Retention Areas (WRAs). Collier County recommends that this Policy be retained as currently written.

Policy 1.3.3 requires continuation of the County's management guidelines for the management and conservation of the habitats, species, natural shoreline and dune systems for the undeveloped coastal barrier and estuarine natural resources protection area. Collier County recommends that this Policy be retained as currently written.

Policy 1.3.4 requires that the County be guided by a Technical Advisory Committee in designating and adopting management guidelines and performance standards for County Natural Resource Protection Areas. Implementation is to occur on an annual basis as NRPAs and their implementation criteria are developed. Collier County recommends that this Policy be retained as currently written.

Policy 1.3.5 requires that implementation of the NRPA program be coordinated with the preparation and implementation of watershed and sub-basin management plans. Collier County recommends that this Policy be retained as currently written.

OBJECTIVE 2.1:

By January 1, 2000, the County shall prepare Watershed Management Plans that will address appropriate mechanisms to protect the County's estuarine and wetland systems.

Objective Achievement Analysis:

The deadline for this Objective has not been met. While Collier County's Stormwater Management Department is currently working on stormwater master plans for three watersheds, these plans do not cover all of the major watersheds in the County and do not generally address the broad concepts for watershed plans that are contained in Policy 2.1.4 of this Element. There is an opportunity to broaden stormwater master plans to achieve the objective through an interdepartmental and interagency effort combined with a stakeholder process. For instance, Collier County's Environmental Services Department can provide input on the watershed's natural resources. Other governmental agencies, such as the Florida Department of Environmental Protection, the South Florida Water Management District, the Florida Fish and Wildlife Conservation Commission, the U.S. Fish and Wildlife Service, the U.S. Army Corps of Engineers, and the cities of Naples, Marco Island and Everglades City, have responsibility for certain activities and lands within Collier County's watersheds, and can bring both expertise and resources to the planning process. Some of the County's watersheds are part of a restoration planning process conducted by Federal, State and District agencies, and the County Watershed Management program could incorporate these restoration plans without having to take the lead in developing a new plan. In addition, stakeholders, such as fishermen, conservation groups, neighborhood associations, and land developers, could provide information and perspective for the plans and should be involved in the process. Therefore, Collier County recommends that the above Objective be retained, but with a change to the deadline.

Policy Relevance:

Policy 2.1.1 stipulates that the above-referenced Watershed Management Plans evaluate activities in the watersheds that drain into the estuaries in order to evaluate cumulative impacts on the estuarine system as well as impacts within the watersheds themselves. Collier County is of the opinion that this Policy remains relevant and, therefore should be retained as written.

Policy 2.1.2 requires Watershed Master Plans to provide for various tasks such as monitoring land-disturbing activities in the watersheds, collecting canal flow and water quality data, stormwater quality data, and assessing habitat changes. Collier County is of the opinion that this Policy remains relevant and, therefore should be retained as written.

Policy 2.1.3 requires that the Watershed Master Plans evaluate structural and non-structural controls for restoring historical hydro-periods in impacted watersheds and reducing the impacts of canal and stormwater discharges to estuaries. Collier County is of the opinion that this Policy remains relevant and, therefore should be retained as written.

Policy 2.1.4 requires that all Watershed Management Plans should address eight specific ecological concepts. Collier County is of the opinion that this Policy remains relevant and, therefore should be retained as written.

Policy 2.1.5 recommends, as appropriate, the integration of environmental resources data collection, planning, and management activities with the water management basin studies described in other parts of this Plan. As part of the EAR-based amendments, Collier County is recommending that the intent of this policy be clarified.

Policy 2.1.6 promotes intergovernmental cooperation between Collier County and the municipalities of Naples and Everglades City for consistent watershed management planning. Collier County recommends that this policy be revised to include the City of Marco Island, which became incorporated in October 1997.

The County is recommending the creation of new Policy 2.1.7, which would promote intergovernmental coordination between Collier County and other governmental agencies involved with watershed planning, including the Florida Department of Environmental Protection, the South Florida Water Management District, the Florida Fish and Wildlife Conservation Commission, the U.S. Fish and Wildlife Service, the U.S. Army Corps of Engineers. The County would not necessarily have to take the lead on each one of the watershed management plans and could rely upon the work performed or data collected by other agencies, without those agencies taking over the planning process.

OBJECTIVE 2.2:

All canals, rivers, and flow ways discharging into estuaries shall meet all applicable Federal, State, or local water quality standards.

Objective Achievement Analysis:

This Objective has not been met, because there are several water bodies in Collier County that do not meet Federal or State water quality standards. The Florida Department of Environmental Protection and the United States Environmental Protection Agency are currently finalizing the list of those water bodies that do not meet water quality standards, and in 2007 will develop Total Maximum Daily Loads for these water bodies. The Watershed Management Plans developed by Collier County will have to address measures to bring these water bodies into compliance with State and Federal water quality standards. Currently, the County monitors water quality through the collection and evaluation of ground water and surface water samples. Approximately 50 locations are monitored monthly for the purpose of establishing trend data. Data is posted on a Water Quality Website. Therefore, this objective continues to be relevant and should be retained.

Policy Relevance:

Policy 2.2.1 bans wastewater treatment plants from discharging directly into rivers, canals or jurisdictional wetlands unless they meet DER regulations and are not in violation of other Goals, Objectives, and Policies of this Element. Collier County

recommends that this policy be updated to reflect the updated name of the State of Florida's environmental regulatory agency – the Florida Department of Environmental Protection (FDEP).

Policy 2.2.2 limits the specific and cumulative impacts of stormwater run-off. Collier County recommends that this Policy be retained as written.

Policy 2.2.3 requires that chemical spraying for aquatic weed control should be conducted with extreme caution and encourages the use of biological and mechanical controls. Collier County does not recommend any changes to this Policy.

Policy 2.2.4 requires the continuation and expansion of the County's water quality sampling program. Collier County recommends that this Policy be retained as written.

The deadline for Policy 2.2.5 has not been met, and the County has not identified stormwater management systems that are not currently meeting State water quality treatment standards. Collier County recommends that this policy be updated to identify a process by which the County will identify such stormwater management systems. The revised policy would also identify needed guidance and assistance from the South Florida Water Management District (SFWMD) and FDEP, and would establish a new deadline.

OBJECTIVE 2.3:

All estuaries shall meet all applicable federal, state and local water quality standards.

Objective Achievement Analysis:

This Objective has not been met, because there are several water bodies in Collier County that do not meet Federal or State water quality standards. The Florida Department of Environmental Protection and the United States Environmental Protection Agency are currently finalizing the list of those water bodies that do not meet water quality standards, and in 2007 will develop Total Maximum Daily Loads for these water bodies. The Watershed Management Plans developed by Collier County will have to address measures to bring these water bodies into compliance with State and Federal water quality standards. Currently, the County monitors its water quality through the collection and evaluation of ground water and surface water samples. Approximately 50 locations are monitored monthly for the purpose of establishing trend data. Data is posted on a Water Quality Website. Collier County Comprehensive Planning Department believes that this objective continues to be relevant and therefore should be retained.

Policy Relevance:

Policy 2.3.1 requires that no new untreated point source discharge is to be permitted directly to the estuarine system or rivers or canals that flow into the estuarine system. Collier County enforces State and Federal environmental and health criteria relative to point source discharges. Collier County recommends that this Policy be retained as written.

Policy 2.3.2 requires that Stormwater systems discharging directly to estuaries are to be designed to meet the same requirements as stated in Policy 2.2.2. Collier County recommends that this Policy be retained as written.

Policy 2.3.3 requires that any future modification of public water control structures in the watershed above the control structure which would amount to 50% or more of the cost of a new structure shall be designed to retain as much water as appropriate. This Policy is written in a confusing manner and therefore Collier County recommends that the EAR-based amendments include revision of Policy 2.3.3 in the interest of clarity.

Policy 2.3.4 requires the County to continue implementation of an estuarine water quality and sediment quality-sampling program. The County conducts this type of sampling as part of its ongoing monitoring programs. Collier County recommends that this Policy be retained as written.

Policy 2.3.5 requires the County to continue to coordinate with the City of Naples regarding cooperative planning, management, and funding programs for limiting specific and cumulative impacts on Naples Bay and its watershed. Collier County recommends that this Policy be retained as written.

Policy 2.3.6 requires the continual restriction of development activities, which could adversely impact coastal water resources. Collier County recommends that this policy be revised to cross-reference the Future Land Use Element's Urban Designation, Urban Coastal Fringe Subdistrict, which allows a maximum density of 4 dwelling units/acre.

OBJECTIVE 2.4:

By June 30, 1998, complete a draft agreement with the Florida Department of Environmental Protection regarding coordinated and cooperative planning, management and monitoring programs for Rookery Bay and Cape Romano - Ten Thousand Islands Aquatic Preserves and their watersheds. The agreement shall identify the process for notifying FDEP of development projects within the watersheds of these preserve areas.

Objective Achievement Analysis:

Collier County recommends that this objective be revised to reflect both the removal of the deadline and revision of the language to recognize that the County is taking a continued, coordinated and cooperative approach with the Florida Department of Environmental Protection regarding planning, management and monitoring programs for Rookery Bay and Cape Romano - Ten Thousand Islands Aquatic Preserves and their watersheds.

Policy Relevance:

Policy 2.4.1 requires at a minimum the County will notify the Department of Environmental Protection of proposed land development projects that could affect these preserves.

Policy 2.4.2 requires the County to request that the Department of Environmental Protection staff participate in the development of future coastal and watershed management plans.

Policy 2.4.3 requires that the County request the cooperation of the Department of Environmental Protection in gathering data and information needed for monitoring water quality, habitat changes and land use activities within the watersheds of these preserves.

Collier County recommends that all of these enabling polices be retained.

OBJECTIVE 2.5:

The County will continue with the implementation of its estuarine management program by requiring development to meet its current standards addressing stormwater management, and the protection of seagrass beds, dune and strand, and wetland habitats.

Objective Achievement Analysis:

The referenced criteria are part of the County's Land Development Regulations and are addressed within the development review process. Therefore, Collier County believes that this objective continues to be relevant and therefore should be retained.

Policy Relevance:

Policy 2.5.1 requires that the County identify land use activities that have the potential to degrade estuarine environmental quality.

Policy 2.5.2 requires that this management program incorporate information obtained from the various watershed management plans described elsewhere in this Element.

Policy 2.5.3 requires that this program be based in part on the estuarine data analyses and management recommendations contained in the County's coastal management program's technical reports.

Collier County recommends that all of these enabling polices be retained.

OBJECTIVE 3.1:

Ground water quality shall meet all applicable Federal and State water quality standards by January 2002 and shall be maintained thereafter.

Objective Achievement Analysis:

Objective 3.1 of the CCME requires the County to achieve compliance with State and Federal water quality standards by January 2002 and to maintain such water quality thereafter. Even though the County has implemented numerous proactive programs designed to protect Collier County's ground water quality from man-made pollution sources, staff believes that this Objective, as written, is not obtainable. Due to natural conditions impacting the water quality found in Collier County, some federal and state

water quality conditions may not be achieved. To make this objective more attainable, the County recommends that this objective be reworded in a manner to indicate that it will continue take the necessary actions to maintain a high level of ground water quality within its aquifer systems. Collier County will apply the Federal and State water quality standards as a means of achieving this objective.

Policy Relevance:

There is one (1) policy within this Objective. Policy 3.1.1 contains criteria for the identification of wellhead protection areas within the County's Future Land Use Map Series. In particular, Policy 3.1.1(j) requires all on-site sewage disposal systems (septic tanks) serving existing industrial uses and subject to the thresholds in d) and e) above within wellfield zones W-1, W-2, and W-3 to meet all construction and operating standards contained in Rule 64E-10, F.A.C. as the rule existed on August 31, 1999 and to implement a ground water monitoring plan. Collier County recommends new language be added to this portion of the policy to remove the referenced date and require compliance with the standards as set forth under Rule 64E-10 F.A.C and that these new standards shall be implemented in the County's overall groundwater monitoring plan.

OBJECTIVE 3.2:

The County shall implement a well construction compliance program under criteria specified in the Collier County Well Construction Ordinance, which is designed to ensure proper construction of wells and promote aquifer protection.

Objective Achievement Analysis:

The Collier County Engineering Services Department works with staff from the Health Department and South Florida Water Management District in maintaining up-to-date construction standards for wells within the County. This objective continues to be relevant and should be retained.

Policy Relevance:

There are five policies within this Objective. Policy 3.2.1 requires that County inspectors who are appropriately trained and knowledgeable of drilling and grouting techniques required in Collier County inspect the drilling and grouting process of all types of wells drilled in the County. This Policy is implemented through the County's Engineering Services Department, which has a well-drilling inspection program. Collier County recommends that this Policy be retained as written.

Policy 3.2.2 requires that the County implement the South Florida Water Management District's well construction standards within the Collier County Well Construction. This Policy is implemented through the County's Engineering Services Department, which has a well-drilling inspection program. Collier County recommends that this Policy be retained as written.

Policy 3.2.3 requires that a committee of well contractors and drillers, County staff, Health Department, and South Florida Management District staff will be established to evaluate the need for well construction standards that are specific to Collier County and reflect Collier County conditions. The County does not possess such a Committee. Well construction standards are periodically reviewed by the County's Pollution Control Department, and any recommended revisions are considered and/or adopted by the Board of County Commissioners. Therefore, Collier County recommends that the EAR-based amendments include deletion of this Policy.

Policy 3.2.4 requires that the County inform well contractors and drillers and the public on the necessity for proper well construction and hold workshops for well drillers on proper techniques for well construction in Collier County. Collier County recommends that this sentence be reworded for clarity.

Policy 3.2.5 states that the County shall cooperate with the South Florida Water Management District in identifying and plugging improperly abandoned wells. Collier County recommends that this policy be retained.

OBJECTIVE 3.3:

Continue to identify, refine extents of, and map zones of influence and contribution around potable wellfields in order to identify activities that must be regulated to protect ground water quality near wellfields. (Refer to Objective 1.1 in the Natural Ground Water Aquifer Recharge Sub-Element.)

Objective Achievement Analysis:

An update to the County's 3-dimensional computer model that calculates cones of depression around significantly sized existing and planned potable wellfields was completed on March 2, 2003. This model will be used to update Wellfield Risk Management Zones located around Municipal Water Supply Wellfields; in accordance with Collier County's Land Development Code, Section 3.16 "Groundwater Protection. This objective continues to be relevant and should be retained.

Policy Relevance:

Policy 3.3.1 requires the County to maintain and refine a 3-dimensional computer model that calculates cones of depression around significantly sized existing and planned potable wellfields. Collier County recommends that this policy be retained.

Policy 3.3.2 requires the County to use the results of this analysis to modify the calculated "cones of influence" and amend the Comprehensive Plan to include these areas as "environmentally sensitive lands." Collier County recommends that this policy be updated to maintain and refine a new 3-dimensional computer model that calculates cones of depression around significantly sized existing and planned potable wellfields along with demarcating areas that are "environmentally sensitive." In terms of consolidating similar policies, Collier County recommends that policies 3.3.2 and 3.3.4 be merged together.

Policy 3.3.3 requires the County to continue to identify and delineate existing land uses that possess the greatest potential for wellfield contamination. This policy should be retained.

OBJECTIVE 3.4

Collect and evaluate data and information designed to monitor the quality of ground water in order to identify the need for additional protection measures. (Refer to Objective 1.3 in the Natural Ground Water Aquifer Recharge Sub-Element.)

Objective Achievement Analysis:

Collier County Environmental Services Department has incorporated a robust, GIS-based system (ESRI's ArcGIS) that is an integrated, computer-based environmental resources data storage, analysis, and graphics system, which can annually update the County's database(s) based on the previous year's analytical data in order to monitor the status of the County's natural resources and propose potential protection measures when appropriate. Therefore, this Objective should be retained as written.

Policy Relevance:

Policy 3.4.1 requires the County to continue the existing water quality-monitoring program to provide base-line data, evaluate long-term trends, identify water quality problems, and evaluate the effectiveness of the County's ground water protection program. This policy should be retained as written.

Policy 3.4.2 recommends that the County coordinate data gathering activities with State and Federal agencies to minimize duplication of efforts and enhance the quality of information gathered. This policy should be retained as written.

Policy 3.4.3 recommends that the County assess its own data annually to determine whether monitoring activities and County Ordinances require the expansion, modification or reduction of monitoring programs. This policy should be rewritten for clarity.

Policy 3.4.4 recommends that the County gather and use appropriate data to refine and improve the database used in the County's 3-dimensional ground water model. This policy should be retained as written.

OBJECTIVE 4.1:

Collect and evaluate data and information designed to more accurately determine water use in Collier County such as the County's database tracking all permitted wells and wells having consumptive use permits.

Objective Achievement Analysis:

This Objective deals with the collection and evaluation of water use data from various sources in Collier County. Oddly enough, although the Objective itself references the

County's well permitting and consumptive use databases, none of the three policies within the Objective reference those sources. Even so, this Objective should be retained.

Policy Relevance:

Each of the subject policies references a potential data source for information to be used to implement the Objective. Policy 4.1.1 references the computer database of the South Florida Water Management District. Policy 4.1.2 requires County staff to work with the agricultural community in Collier County in order to devise methodology for estimating agricultural pumpage rates. Finally, Policy 4.1.3 requires the County to collect data from various sources to evaluate water usage by native plant and animal communities. All of these policies should be retained.

OBJECTIVE 4.2:

The County will promote conservation of its water supply and by April 1, 1998, develop a comprehensive conservation strategy, which will identify specific goals for reducing per capita potable water consumption.

Objective Achievement Analysis:

This objective should be rewritten to specifically reference Collier County's Water-Sewer District, and the Collier County Water & Wastewater Authority as the County governmental entities charged with assessing water usage in this County.

Policy Relevance:

Policy 4.2.1 states that the County will continue to cooperate with the South Florida Water Management District to take appropriate measures to conserve water in emergency situations. Collier County recommends that this policy be retained.

Policy 4.2.2 requires that the County negotiate agreements with area golf courses to accept and use treated wastewater effluent for irrigation when and where such water is available from existing and future wastewater treatment plants. Collier County recommends that this policy be revised due to the Collier County Public Utilities Division's limited capacity to provide treated wastewater to all of the golf courses within the County.

Policy 4.2.3 requires that the County identify existing and future publicly owned lands suitable for irrigation with treated wastewater effluent, such as government building grounds, parks and highway medians, and incorporate these into future planning for effluent disposal. Collier County recommends that this policy be retained.

Policy 4.2.4 requires the County to identify existing and future privately owned lands suitable for irrigation with treated wastewater effluent, such as cemeteries, agricultural operations, nurseries and commercial/industrial parks, and incorporate these into future planning for effluent disposal. Collier County recommends that this policy be retained.

Policy 4.2.5 requires that the County evaluate and make recommendations, where appropriate, for plumbing fixtures and landscapes that are designed for water conservation purposes. Collier County recommends that this policy be retained.

Collier County recommends that Policy 4.2.6 be removed, since it's a repeat of Policy 4.2.5.

OBJECTIVE 5.1:

Allow the extraction or use of mineral resources in the County provided such activities comply with applicable industry and government standards regarding health, safety, and environmental protection.

Objective Achievement Analysis:

This objective continues to be relevant and should be retained.

Policy Relevance:

Policy 5.1.1 states that the County shall allow mineral extraction operations as provided in the zoning code. Collier County recommends specificity as to which zoning designation(s) allows mineral extraction operations "by right".

Policy 5.1.2 requires a water use plan to be prepared by the applicant and approved by the County Water Management Department before new mineral operations are permitted. This Policy should be revised to refer to the current Stormwater Management Section of the County's Road Maintenance Department.

Policy 5.1.3 states that mineral extraction operations shall comply with standards and criteria as provided in the County's Excavation and Blasting Ordinances. Collier County recommends that this policy be retained.

Policy 5.1.4 requires that the depth of excavation and dewatering shall be restricted in areas where saline water can intrude into the bottom of the pits. (Also, refer to Policy 3.3.1). Collier County recommends this policy be made more specific by listing the most up-to-date State administrative codes.

Policy 5.1.5 requires that the mining operator be required to monitor all mining operations to ensure that they are in direct compliance with State water quality standards and that all mining activities must stop if water quality standards are violated as a result of the mining operation. Collier County recommends that this policy have, as a default, a second tier of regulatory compliance standards. Also, a new policy should be created to ensure that a landowner or mine operator has the proper, required State and/or South Florida Water Management District permits, if certain local permits are not required.

OBJECTIVE 5.2:

Continue to reclaim the total disturbed area of extraction sites in order to ensure adequate assessment and mitigation of site specific and cumulative impacts resulting from mineral extraction activities.

Objective Achievement Analysis:

This objective continues to be relevant and should be retained.

Policy Relevance:

Policy 5.2.1 states, "the Program will define reclamation standards for the protection and restoration of wildlife habitat." Collier County recommends further explanation for the following:

1. Define "Program"
2. Provide information about the County's reclamation standards.

OBJECTIVE 5.3:

On biennial basis, beginning in October 1998, review and refine estimates of types and quantities of existing minable mineral resources in Collier County, based in information collected during previous biennium.

Objective Achievement Analysis:

Collier County's Engineering Services Department has requested that the language for this objective be modified to provide a better method for assessing the types and quantities of minable mineral resources in Collier County. Therefore, Collier County recommends that this Objective and its enabling policies be revised to reflect an emphasis on estimating types and quantities of minable mineral resources occurring in Collier County.

Policy Relevance:

Policy 5.3.1 recommends that the County work with the Florida Department of Environmental Protection and the Florida Geological Survey and local mining industry officials to inventory and evaluate the existing mineral reserves in Collier County. Collier County recommends that this policy be revised to incorporate a GIS-based database of all areas within the County that are permitted either by right, or by conditional use, to conduct earth-mining operations and the allowable volume of fill that is permitted for each such active earth-mining operation.

OBJECTIVE 5.4

The County shall maintain its program to control soil erosion through its regulations identifying criteria to control and reduce soil erosion and sediment transport from construction and other nonagricultural land disturbing activities.

Objective Achievement Analysis

This objective continues to be relevant and therefore should be retained.

Policy Relevance:

Policy 5.4.1 recommends that the County rely on the USDA Natural Resources Conservation Service to provide the County with appropriate soil conservation guidelines for agriculture. Collier County recommends that this policy be retained.

OBJECTIVE 6.1:

The County shall protect native vegetative communities through the application of minimum preservation requirements. The following policies provide criteria to make this objective measurable. These policies shall apply to all of Collier County except for the Eastern Lands Study Area, for which policies are required to be adopted by November 1, 2002.

Objective achievement analysis:

This objective should be revised to reflect completion of the Eastern Lands Study and the establishment of the Rural Lands Stewardship Area (RLSA) Program.

Policy Relevance:

Policy 6.1.1 specifies that it is applicable to the County's Urban Designated Area, Estates Designated Area, Conservation Designated Area, and Agricultural/Rural Mixed Use District, Rural-Industrial District and Rural-Settlement Area District, as designated on the Future Land Use Map (FLUM), and that native vegetation shall be preserved on-site (in all of the referenced portions of the FLUM) through the application of a series of preservation and vegetation retention standards and criteria, unless the development occurs within the Area of Critical State Concern (ACSC) where the ACSC standards referenced in the Future Land Use Element shall apply. Collier County recommends that this policy be retained.

Policy 6.1.2 specifies that, within the County's Rural Fringe Mixed Use District, as designated on the FLUM, native vegetation shall be preserved on site through the application of various vegetation retention standards and criteria. Collier County recommends that this policy be retained.

Policy 6.1.3 requires that, within the County's Rural Lands Stewardship Area (RLSA) Overlay, as designated on the FLUM, native vegetation shall be preserved pursuant to the

RLSA policies found in the Future Land Use Element. Collier County recommends that this policy be retained.

Policy 6.1.4 requires that invasive exotic vegetation shall be removed from all new developments. Collier County recommends that this policy be retained.

Policy 6.1.5 stipulates that agricultural operations shall be exempt from the County's preservation requirements provided that any new clearing of land for agriculture shall not be converted to non-agricultural development for 25 years. This policy was adopted as part of the County's Rural Fringe Amendments. Collier County recommends that this policy be retained.

Policy 6.1.6 makes all existing land uses exempt from the native vegetation retention requirements of CCME Policy 6.1.2 if the effected land uses were issued prior to June 19, 2002; or projects for which a Conditional use or Rezone petition has been approved by the County prior to June 19, 2002; or, land use petitions for which a completed application has been submitted prior to June 19, 2002. This policy was adopted as part of the County's Rural Fringe Amendments. Collier County recommends that this policy be retained.

Policy 6.1.7 states that the County shall require native vegetation to be incorporated into landscape designs in order to promote the preservation of native plant communities and to encourage water conservation through a variety of xeriscaping techniques. Collier County recommends that this policy be retained.

Policy 6.1.8 stipulates that a County Environmental Impact Statement (EIS) is required, to provide a method to objectively evaluate the impact of a proposed development, site alteration, or project upon the resources and environmental quality of the project area and the community. Collier County recommends that this policy be retained.

Policy 6.1.9 recommends that the County shall provide for adequate staff to implement the policies supporting Objective 6.1. Collier County recommends that this policy be retained.

OBJECTIVE 6.2:

The County shall protect and conserve wetlands and the natural functions of wetlands. The following policies provide criteria to make this objective measurable. These policies shall apply to all of Collier County except for the Eastern Lands Study Area, for which policies are required to be adopted by November 1, 2002.

Objective Achievement Analysis:

The County has adopted the Rural Lands Stewardship Area (RLSA) Overlay and RLSA program. Therefore, the County recommends that the language of this Objective be modified to delete the second sentence (dealing with the Eastern Lands Study Area) in its entirety, so that the Objective applies throughout the entire County. In addition, the

County recommends that this Objective be revised to provide coordination with the Watershed Management Plans, as referenced in Objective 2.1 of this Element.

Policy Relevance:

Policy 6.2.1 requires, as required by Florida Administrative Code 9J5-5.006(1)(b), that wetlands as identified by the 1994-1995 SFWMD land use and land cover inventory be mapped on the Future Land Use Map series. These areas are to be verified by jurisdictional field delineation, subject to Policy 6.2.2 of this element, at the time of project permitting to determine the exact location of jurisdictional wetland boundaries. This policy was adopted as part of the County's Rural Fringe Amendments. Collier County recommends that this policy be retained.

Policy 6.2.2 requires that wetlands shall be defined pursuant to Section 373.019 Florida Statutes. The Policy notes that locations of jurisdictional wetland boundaries are further described by the delineation methodology described in Section 373.421 Florida Statutes. Therefore, the County recommends that this policy be retained as written.

Policy 6.2.3 requires Collier County to implement a comprehensive process to ensure that wetlands and the natural functions of wetlands are protected and conserved. The process outlined within this policy is primarily based on directing concentrated population growth and intensive development away from large connected wetland systems. High quality wetlands systems located on private property are primarily protected through native vegetation preservation requirements, or through existing PUD commitments, conservation easements, or Stewardship Sending Area Designations, or through the Natural Resource Protection Areas or Sending designations in the Rural Fringe Mixed Use District. The large connected wetland systems that exist at the landscape scale in Collier County are protected through various Land Use Designations and Overlays that restrict higher intensity land uses and require specific land development standards for the remaining allowable land uses.

Collier County recommends that this policy be revised to ensure that watershed management plans, developed in accordance with CCME Objective 2.1, are incorporated into wetland protection strategies throughout the County, including within the Urban and Estates Designated areas.

Policy 6.2.4 requires that, within the Urban Designated area, the County is to rely on the wetland jurisdictional determinations and permit requirements issued by the applicable jurisdictional agency. This policy is implemented through various mitigation strategies. This policy was adopted as part of the County's Rural Fringe Amendments. Collier County recommends that this policy be revised to ensure that watershed management plans, developed in accordance with CCME Objective 2.1, are incorporated into wetland protection strategies within the Urban Designated area.

Policy 6.2.5 requires that within the Rural Fringe Mixed Use District, Collier County is to direct land uses away from higher functioning wetlands by limiting direct impacts within wetlands based upon the vegetation requirements of Policy 6.1.2. This policy was

adopted as part of the County's Rural Fringe Amendments. Collier County recommends that this policy be retained.

Policy 6.2.6 stipulates that within the Urban Designation and the Rural Fringe Mixed Use District, required wetland preservation, buffer areas, and mitigation areas are to be dedicated as conservation and common areas in the form of conservation easements and are to be identified or platted as separate tracts; and, in the case of a Planned Unit Development (PUD), these areas must also be depicted on the PUD Master Plan. This policy was adopted as part of the County's Rural Fringe Amendments. Collier County recommends that this policy be retained.

Policy 6.2.7 stipulates that within the Estates Designated Area and the Rural Settlement Area, the County is to rely on the wetland jurisdictional determinations and permit requirements issued by the applicable Jurisdictional agency. This policy was adopted as part of the County's Rural Fringe Amendments. Collier County recommends that this policy be revised to ensure that watershed management plans, developed in accordance with CCME Objective 2.1, are incorporated into wetland protection strategies within the Estates Designation and the Rural Settlement Area.

Policy 6.2.8 stipulates that for the County's Rural Lands Stewardship Area (RLSA) Overlay, as designated on the FLUM, wetlands are to be preserved pursuant to the RLSA Overlay policies found in the Future Land Use Element. This policy was adopted as part of the County's Eastern Lands Study Area Amendments. Collier County recommends that this policy be retained.

OBJECTIVE 6.3:

The County shall protect and conserve submerged marine habitats.

Objective Achievement Analysis:

This objective continues to be relevant and should be retained.

Policy Relevance:

Policy 6.3.1 stipulates that the amount of permitted wet slips for marinas is to be no more than 18 boat slips for every 100 feet of shoreline where impacts to sea-grass beds are less than 100 square feet. When more than 100 square feet of sea-grass beds are impacted, then no more than 10 boat slips for every 100 feet of shoreline are allowed.

Policy 6.3.2 stipulates that the impacts to sea-grass beds are to be minimized by locating boat docks more than 10 feet from existing sea-grass beds. Where this is not possible, boat docks are to be sited in such manner as to impact the smallest area of sea-grass beds possible, and to be no lower than 3.5 feet NGVD, have a terminal platform no greater than 160 square feet, and have the access dock be no wider than 4 feet.

Policy 6.3.3 states that the protection of sea-grass beds is to be a factor in establishing new, or in revising existing, speed zones to regulate boat traffic. Collier County is not recommending any additional changes to the above policies.

OBJECTIVE 6.4:

The County will protect, conserve and appropriately use ecological communities shared with or tangential to State and Federal lands and other local governments.

Objective Achievement Analysis:

This objective continues to be relevant and should be retained.

Policy Relevance:

Policy 6.4.1 requires the County to continue to coordinate with adjacent counties, State and Federal agencies, other owners of lands held in the public trust, and the Southwest Florida Regional Planning Council to protect unique communities located along the County's border by controlling water levels and enforcing land development regulations with regard thereto. This policy continues to be relevant and should be retained.

Policy 6.4.2 requires the County to continue to meet with the appropriate Counties at a specified frequency to discuss upcoming land development projects that would have an impact on ecological communities in both Counties. This policy is worded in a confusing manner and should be revised for clarity.

Policy 6.4.3 requires the County to assist to assure compliance with all State and Federal Regulations pertaining to endangered and rare species living in such "shared" ecological systems. This policy is worded in a confusing manner and should be revised for clarity.

OBJECTIVE 6.5:

The County shall protect natural reservations from the impact of surrounding development. For the purpose of this Objective and its related policies: natural reservations shall include only Natural Resource Protection Areas (NRPAs) and designated Conservation Lands on the Future Land Use Map; and, development shall include all projects except for permitting and construction of single-family dwelling units situated on individual lots or parcels. This Objective and its Policies shall apply only to the Rural Fringe Mixed Use district [except as noted in Policy 6.5.3].

Objective Achievement Analysis:

This objective continues to be relevant and should be retained.

Policy Relevance:

Policy 6.5.1 mandates that all requests for development contiguous to natural reservations are to be reviewed as part of the County's development review process. This policy continues to be relevant and should be retained.

Policy 6.5.2 stipulates specific criteria are to apply to development contiguous to natural reservations in order to reduce negative impacts to the natural reservations. This policy continues to be relevant and should be retained.

Policy 6.5.3 states that criteria contained in the County's Rural Lands Stewardship Area (RLSA) Overlay are to apply to development within the RLSA that is contiguous to natural reservations. This policy continues to be relevant and should be retained.

OBJECTIVE 7.1:

The County shall direct incompatible land uses away from listed animal species and their habitats. These policies shall apply to all of Collier County except for the Eastern Lands Study Area, for which policies are required to be adopted by November 1, 2002.

Objective Achievement Analysis:

The County recommends that this Objective be revised to consist solely of the first sentence.

Policy Relevance:

Policy 7.1.1 summarizes provisions within the Future Land Use Element for directing incompatible land uses away from listed species and their habitats. This Policy remains relevant and should be retained.

Policy 7.1.2 provides guidelines and standards for directing non-agricultural development, except for individual single-family residences, away from listed species and their habitats. This policy does not apply to lands located within the RLSA. This Policy remains relevant and should be retained.

Policy 7.1.3 requires that, for the County's Rural Lands Stewardship Area (RLSA) Overlay, as designated on the FLUM, listed species are to be protected pursuant to the RLSA policies found in the Future Land Use Element. This Policy remains relevant and should be retained.

Policy 7.1.4 states that all development shall comply with applicable federal and state permitting requirements regarding listed species protection. This Policy remains relevant and should be retained.

Policy 7.1.5 states that the County shall provide for adequate staff to implement the policies supporting Objective 7.1. This Policy remains relevant and should be retained.

OBJECTIVE 7.2:

Historical data from 1990-1996 shows that the average number of manatee deaths in Collier County due to incidents with watercraft is approximately 3.2 per year per 10,000 boats. Through Policies 7.2.1 through 7.2.4, the County's objective is to minimize the number of manatee deaths due to boat related incidents.

Objective Achievement Analysis:

Collier County's Manatee Protection Plan (NR-SP-93-01), was adopted into the Collier County Land Development Code (LDC, Section 2.6.22, Ordinance No. 95-58) in May of 1995 but was not officially adopted into the County's Growth Management Plan until December 16, 2003, with the adoption of Ordinance 2003-67. As a brief background, the Manatee Protection Plan (MPP) has played a pivotal role in the Florida Fish and Wildlife Conservation Commission's (FFWCC) decision-making process since its adoption. In the eight years since the MPP was adopted, the FFWCC's Bureau of Protected Species Management's permitting staff has depended primarily upon the MPP to provide consistent direction for the siting of boat facilities within Collier County's jurisdictional waters. Moreover, the MPP lays out regulatory groundwork for the protection of manatee habitat, such as seagrass beds. Collier County recommends that this objective be updated to reflect the most up-to-date, best available data on manatee deaths in Collier County waters and that some of the Objective's enabling policies should be revised to reference Collier County's Manatee Protection Plan.

Policy Relevance:

Policy 7.2.1 states that the County is to apply the marina siting criteria contained in Policy 7.1.2 (2)(h) of this element in order to direct increased boat traffic away from sensitive manatee habitats. Collier County recommends that this policy be revised to reference Collier County's Manatee Protection Plan (NR-SP-93-01), May 1995.

Policy 7.2.2 stipulates that sea-grass beds are to be protected through the application of Policies 6.3.1, 6.3.2 and 6.3.3 of this element. This Policy remains relevant and should be retained.

Policy 7.2.3 states that, in order to protect manatees, marinas shall be discouraged in designated manatee critical habitat unless other protective measures are provided. The Policy also requires the County to maintain the manatee protection speed zones that were adopted in the Collier County Manatee Protection Plan and to make revisions as needed. The County is also to continue to work with appropriate State and Federal agencies to identify areas where the use of propeller driven boats may be restricted or prohibited, or where speed zones may need to be changed. This Policy should be merged with like Policy 10.1.5.

OBJECTIVE 7.3:

Historical data from 1996-1999 shows that the average number of sea turtle disorientations is 5% of total nests. Through the following policies, the County's objective is to minimize the number of sea turtle disorientations.

Objective Achievement Analysis:

Collier County recommends that this objective be updated to reflect the most up-to-date, best available data on sea turtle disorientation. However, Collier County believes that its enabling policies should be retained.

Policy Relevance:

Policy 7.3.1 requires the County to apply the lighting criteria contained in Policy 7.1.2(2)(i) of this element in order to protect sea turtle hatchlings from adverse lighting conditions.

Policy 7.3.2 requires Collier County to conduct regular inspections to ensure coastal properties comply with proper lighting conditions and with applicable prohibitions of overnight storage of furniture and other equipment during sea turtle season (May 1 through October 30).

Policy 7.3.3 requires the County to update the public awareness materials designed to inform coastal residents and visitors how they can protect sea turtles.

All of the above policies should be retained as written.

OBJECTIVE 7.4:

The County shall continue to improve marine fisheries productivity by building additional artificial reefs.

Objective Achievement Analysis:

This objective continues to be relevant and should be retained.

Policy Relevance:

Policy 7.4.1 states that the County should continue to apply for reef construction grants and annually place more materials on the existing permitted sites. Policy 7.4.2 recommends that the County will coordinate its activities with the Florida Department of Environmental Protection, the Marine Extension Office and other appropriate agencies. The County recommends that these policies be retained.

OBJECTIVE 8.1:

All activities in the County shall comply with all applicable federal and State air quality standards.

Objective Achievement Analysis:

Collier County has implemented numerous proactive programs designed to protect Collier County air quality from man-made pollution sources. In addition, Collier County has also developed programs designed to respond to air pollution releases into the environment. Finally, the Collier County Pollution Control & Prevention Department has developed strong working relationships with the Florida Department of Environmental Protection, Florida Division of Forestry, and the local fire departments as appropriate to enhance the County's ability to effectively coordinate efforts to meet this objective. Therefore, Collier County recommends retaining this Objective as written.

Policy Relevance:

Policy 8.1.1 stipulates that the County will rely upon the expertise of the Florida Department of Environmental Protection, the Florida Division of Forestry or the local fire departments, as appropriate, and within their jurisdictions to permit and visually inspect air pollutant sources in the County. Collier County recommends that this policy be retained.

Policy 8.1.2 lays out the protocol for how the fire departments and the County will receive complaints concerning air pollution problems and refer them to the Florida Department of Environmental Regulation, Florida Division of Forestry, or the local fire departments as appropriate. Collier County recommends revising this policy to refer to the Florida Department of Environmental Protection, instead of the Florida Department of Environmental Regulation.

Policy 8.1.3 states that the local fire departments, Florida Department of Environmental Protection, and the Florida Division of Forestry ~~to~~ will investigate and act on complaints that are called in or referred to them. This policy is essentially meaningless, since the County cannot compel State agencies or independent fire districts to investigate complaints. Therefore, the County recommends deletion of this policy.

Policy 8.1.4 deals with automobile emissions in two innovative, progressive ways:

1. Automobile emissions will be reduced by the policy of the Sheriff's Department to stop smoking vehicles and either warn or ticket the operator for the offense. Collier County recommends this policy be revised to correct the improper reference of "Sheriff's Department" to Collier County "Sheriff's Office."
2. The County will require bike paths or sidewalks to be added to new subdivisions and major County roadways and improvements as alternative mode of transportation.

Policy 8.1.5 states that by January 1, 2000, the County is to investigate the need for a more comprehensive local air quality-monitoring program. Collier County recommends that, since this deadline has been met, it should be removed. Moreover, Collier County recommends that new language be added to this policy to strengthen it with regard to adding an accredited local air quality program that will include ambient air quality monitoring under the direction of the Federal Environmental Protection Agency.

OBJECTIVE 9.1:

The County shall implement and update biennially a hazardous materials emergency response element as part of its Comprehensive Emergency Management Plan.

Objective Achievement Analysis:

This objective continues to be relevant and should be retained.

Policy Relevance:

Policy 9.1.1: states that the plan (i.e., the hazardous materials emergency response element) is to be developed in cooperation with the Southwest Florida Regional Planning Council and the local planning committee established under Title III. Collier County recommends that the complete listing of the federal act title "Superfund Amendments and Reauthorization Act," known as SARA, be spelled out for this policy.

Policy 9.1.2: states that the plan is to identify a community coordinator, facility coordinators, and other Federal, State and local agency contacts (especially the City of Naples) including the responsibilities and duties of each agency. Collier County recommends that this policy be updated to reflect the recently incorporated City of Marco Island and Everglades City.

Policy 9.1.3 states that the plan shall identify emergency notification procedures and lines of communication among reacting agencies. This policy continues to be relevant and should be retained.

Policy 9.1.4 requires that the plan provide a description of community and industry emergency equipment and facilities and to identify persons responsible for such equipment and facilities. This policy continues to be relevant and should be retained.

Policy 9.1.5 requires that the plan shall address hazardous substances, transportation routes, location of significant hazardous materials, probable affected areas in the event of a release, and emergency evacuation plans. This policy continues to be relevant and should be retained.

Policy 9.1.6 requires a training program to be developed for emergency response personnel. This policy continues to be relevant and should be retained.

Policy 9.1.7 tasks the Collier County Emergency Management Department with developing, implementing and periodically updating the hazardous materials emergency response element. This policy continues to be relevant and should be retained.

OBJECTIVE 9.2:

The County shall verify the management and disposal practices of identified businesses that are potential generators of hazardous waste, at a rate of 20% of these businesses per year.

Objective Achievement Analysis:

This objective continues to be relevant and should be retained.

Policy Relevance:

Policy 9.2.1 states that, during the verification visits, the County will advise businesses on proper management and disposal of hazardous wastes and will encourage the reduction of hazardous waste through recycling. This policy continues to be relevant and should be retained.

Policy 9.2.2 requires that the verification visits will concentrate on businesses generating waste oil and spent solvents and other hazardous waste in areas close to potable wellfields. Collier County recommends that this policy be retained.

Collier County recommends that one additional policy be added to this Objective that will create a new cooperative arrangement between Collier County's Pollution Control and Prevention Department and the Florida Department of Environmental Protection to ensure an additional layer of regulatory oversight in enforcing businesses to be compliant with federal, state and local hazardous waste management regulations.

OBJECTIVE 9.3:

The Collier County Solid Waste Department shall continue to hold its hazardous waste collection day at least once per year.

Objective Achievement Analysis:

This objective continues to be relevant and should be retained.

Policy Relevance:

Policy 9.3.1 states that the hazardous waste collection day will target residential households but will also allow small businesses to participate to some extent. Collier County recommends that this policy should be retained.

OBJECTIVE 9.4:

The County shall continue to implement its local storage tank compliance program.

Objective Achievement Analysis:

This objective should be retained but the enabling policies should be revised.

Policy Relevance:

Policy 9.4.1 states that the County will implement provisions of the contract with the Department of Environmental Protection under the Super Act provisions in order to avoid any duplication of effort. Collier County recommends that this policy be revised to fix the error by inserting "fund" after "Super."

Policy 9.4.2 stipulates that the County will concentrate on storage tank installation, inspection, and contractor certification and oversight of maintenance and monitoring of petroleum contamination sites. Collier County recommends that this policy be retained.

Policy 9.4.3 states that unless otherwise provided for in CCME Policy 3.1.1, storage tank systems will adhere to containment provisions required in 62-761, F.A.C., as it existed on August 31, 1999. Collier County recommends that policy be modified to include language that will require the County to adopt and incorporate any newly amended language affecting the State of Florida's 62-761, Florida Administrative Code.

OBJECTIVE 10.1:

Priorities for shoreline land use shall be given to water dependent uses over water related land uses and shall be based on type of water-dependent use, adjacent land use, and surrounding marine and upland habitat considerations. The Collier County Manatee Protection Plan (NR-SP-93-01) May 1995 restricts the location of marinas and may limit the number of wet slips, the construction of dry storage facilities, and boat ramps, based upon the Plan's marina siting criteria.

Objective Achievement Analysis:

With the adoption of the Collier County Manatee Protection Plan (NR-SP-93-01) May 1995, which was ratified into the County's GMP by Ordinance No. 2002-32 on June 19, 2002, the Florida Fish and Wildlife Conservation Commission has been able to make consistent policy regarding the siting of boat facilities within Collier County's jurisdictional waters since 1995. Therefore, this Objective should be retained.

Policy Relevance:

Policy 10.1.1 prioritizes water-dependent uses accordingly: public boat ramps, marinas, commercial fishing facilities, and other non-polluting water-dependent industries or utilities. This policy and Policy 10.1.3 should be merged into a single policy.

Policy 10.1.2 mandates that no deep ports be allowed within Collier County's jurisdictional waters. Collier County recommends that this policy should be retained.

Policy 10.1.3 prioritizes all water-related uses accordingly: recreational facilities, marine supply/repair facilities, and residential development. Collier County recommends that this policy be merged with Policy 10.1.1 to create a single policy.

Policy 10.1.4 prioritizes the siting of shoreline development with regard to the resultant destruction or disturbance of native vegetative communities for water dependent/water related land uses. The priority is as follows: areas presently developed, disturbed uplands, disturbed freshwater wetlands, disturbed marine wetlands, viable, unaltered uplands, viable, unaltered freshwater wetlands, and viable, unaltered marine wetlands. This policy should be revised for clarity.

Policy 10.1.5 requires the County to protect manatees by steering marinas away from designated manatee critical habitat unless other protective measures are provided. This policy is similar to Policy 7.2.3, above. Therefore, the County is recommending merger of these two policies.

Policy 10.1.6 mandates that new marinas shall conform to certain criteria. Collier County recommends that another criterion be added that would create a centralized data base of all newly approved marinas and multi-slip docking facilities to ensure their preparedness in the event of a hurricane or heavy weather storm event.

Policy 10.1.7 requires that marinas and other water-dependent and water related uses conform to other applicable policies regarding development in marine wetlands. Marinas that propose to destroy wetlands shall provide for use by the general public. Collier County recommends the addition to this policy of all water-related uses within the context of providing the greatest public benefit.

Policy 10.1.8 requires that all new marinas that propose to destroy viable naturally functioning marine wetlands shall demonstrate the economic need and feasibility for such development. Collier County recommends that the County use a Fiscal Impact Analysis Model to conclusively determine the fiscal neutrality of each new marina relative to its impact on the County.

Policy 10.1.9 stipulates that these policies shall serve as criteria, holistically, for the review of proposed development in "ST" designated lands. Collier County recommends the complete spelling of the acronym "ST" ("Special Treatment" zoning designation) and its accompanying definition.

OBJECTIVE 10.2:

The County shall continue to insure that access to beaches, shores and waterways remain available to the public and continue with its program to expand the availability of such access and a method to fund its acquisition.

Objective Achievement Analysis:

Collier County recommends that this Objective be retained but that certain of its enabling policies be revised.

Policy Relevance:

Policy 10.2.1 requires that existing access for the public to the beach is to be maintained by new development. New beachfront development will show on their site-plans existing beach access ways and the proposed development will continue that access way, relocate it on the site, or donate it to the County. Collier County recommends that this policy be retained as written.

Policy 10.2.2 recommends that the County evaluate appropriate public access intervals for re-nourished beaches considering the demand for recreation and the ability of the natural system to support the demand. If existing access is not sufficient, then the County must acquire additional access points as a part of the re-nourishment project. Collier County recommends that this policy be retained.

Policy 10.2.3 awards a credit towards any County recreation and open space impact fee for developments, which provide public access facilities. Collier County recommends that this policy be revised to refer to public access to beaches, shores and waterways.

Policy 10.2.4 requires that all public access facilities shall include parking facilities and roadway access. This policy should be retained.

Policy 10.2.5 requires the County to accept donations of shoreline land suitable for use as public access facilities. This policy should be retained.

Policy 10.2.6 requires the County to coordinate with State and Federal agencies regarding use of and access to Federal and State owned properties in the Coastal Zone for public use. Collier County recommends that this policy should be retained.

OBJECTIVE 10.3:

Undeveloped coastal barriers shall be maintained predominantly in their natural state and their natural function shall be protected, maintained and enhanced.

Objective Achievement Analysis:

Collier County recommends that this objective be retained but that certain of its enabling policies be revised.

Policy Relevance:

Policy 10.3.1 states that "undeveloped" coastal barrier systems shall be defined as set forth in the Federal Guidelines based on the amount of structures per acre of fastlands and for which no development approval or permits have been issued, or plats recorded,

by Collier County. "Fastlands" are the upland area as defined in the Federal Guidelines. This policy should be retained.

Policy 10.3.2 requires that any development activities on an undeveloped coastal barrier must be compatible with protection of the natural form and function of the coastal barrier system. This policy should be retained.

Policy 10.3.3 recognizes that the highest and best use of undeveloped coastal barriers is as functioning natural systems; therefore the first alternative to development should be consideration of acquisition by or for the public benefit to preserve the natural function. This policy should be retained.

Policy 10.3.4 stipulates that public expenditure shall be limited to property acquisition and for public safety, education, restoration, exotic removal, recreation and research facilities that will not substantially alter the natural characteristics and the natural function of the undeveloped coastal barrier system. Collier County recommends revising this policy for clarity.

Policy 10.3.5 stipulates that native or other County approved vegetation is required as the stabilizing medium in any coastal barrier vegetation or restoration program. This policy should be retained.

Policy 10.3.6 prohibits the construction of structures seaward of the Coastal Construction Control Line on undeveloped coastal barriers. Exception shall be made for passive recreational structures, access crossovers, and where enforcement would not allow any reasonable economic utilization of such property. In the latter event, the policy requires construction that minimizes interference with the natural function of such coastal barrier system. This policy should be retained.

Policy 10.3.7 recommends that the County participate in and encourage Regional and State programs to acquire naturally functioning, undeveloped coastal barrier systems to insure the preservation of their natural function. Collier County recommends that this policy should be retained.

Policy 10.3.8 requires that the residential development density on undeveloped coastal barrier systems cannot exceed the lowest density provided in the Future Land Use Element. Collier County recommends that this policy be revised to refer to "minimum density allowed within the appropriate Future Land Use Designation, as shown on the countywide Future Land Use Map."

Policy 10.3.9: requires native vegetation on undeveloped coastal barriers to be preserved. To the extent that native vegetation is lost during land development activities and the remaining native vegetation can be supplemented without damaging or degrading its natural function, any native vegetation lost during construction shall be replaced by supplementing with compatible native vegetation on site. All exotic vegetation must be removed and replaced with native vegetation where appropriate. This policy should be retained.

Policy 10.3.10 prohibits the permitting of new bridges; causeways, paved roads or commercial marinas either to or on undeveloped barrier systems. This policy should be retained.

Policy 10.3.11 prohibits the permitting of any shoreline hardening structures (e.g., rip-rap, seawalls, groins, etc.) on undeveloped coastal barriers except in the interest of public safety or of land use related hardship. This policy should be retained.

Policy 10.3.12 requires the use of the "Planned Unit Development" (PUD) provisions of the County's Zoning Ordinance for new developments or redevelopment's proposed to take place within areas identified as Coastal Barrier systems with the exception of one single family dwelling unit on a single parcel. Collier County recommends that this policy be either deleted or revised due to potential conflicts with the other policies in this Objective.

Policy 10.3.13 stipulates that these policies shall serve as criteria, holistically, for the review of proposed development in "ST" designated lands. Collier County recommends the revision of this policy similar to that recommended for Policy 10.1.9.

Policy 10.3.14 prohibits the substantial alteration of the natural grade on undeveloped coastal barriers by filling or excavation except as a part of an approved dune and/or beach restoration program, or as part of a DER approved wastewater treatment system or as part of an approved public development plan. Collier County recommends that the reference to the DER be changed to the Florida Department of Environmental Protection (FDEP).

Policy 10.3.15 requires that agriculture and timbering must abide with the above Goals, Objectives, and Policies related to coastal barrier systems. Collier County recommends that this policy be revised to refer to Objective 10.3 and its enabling policies.

OBJECTIVE 10.4:

Developed coastal barriers and developed shorelines shall be continued to be restored and then maintained, when appropriate by establishing mechanisms or projects which limit the effects of development and which help in the restoration of the natural functions of coastal barriers and affected beaches and dunes.

Objective Achievement Analysis:

Collier County recommends that this objective be retained but that certain of its enabling policies should be revised.

Policy Relevance:

Policy 10.4.1 promotes environmentally acceptable and economically feasible restoration of the developed coastal barriers and the urban beach and dune systems. This policy should be retained.

Policy 10.4.2 prohibits further shore hardening projects except where necessary to protect existing structures, considering the total beach system and adjacent properties. Collier County recommends that this policy be retained.

Policy 10.4.3 prohibits activities which would result in man induced shoreline erosion beyond the natural beach erosion cycle or that would deteriorate the beach and dune system. Collier County recommends that this policy be revised to reference scientific/coastal engineering literature/studies that have established benchmarks for natural rates of beach erosion.

Policy 10.4.4 requires dune stabilization and restoration improvements in land development projects along beach areas. This policy should be revised for clarity.

Policy 10.4.5 recommends that the County initiate and support beach and dune restoration and preservation programs where appropriate. This policy should be retained.

Policy 10.4.6 requires native vegetation as landscaping in development activities in developed coastal barrier systems and on beach and dune systems. Collier County recommends that this policy be retained.

Policy 10.4.7 prohibits construction seaward of the Coastal Construction Control Line except where the same would be permitted pursuant to the provisions of the Florida Coastal Zone Protection Act of 1985 or where said prohibition would result in no reasonable economic utilization of the property in question, or for safety reasons. In such cases, construction will be as far landward as is practicable and effects shall be minimized on the beach and dune system and the natural functions of the coastal barrier system. Collier County recommends that the reference to the Coastal Construction Control Line be changed to the Coastal Construction Setback Line.

Policy 10.4.8 states that construction seaward of the Coastal Construction Control Line will be allowed for public access and protection and restoration of beach resources. Construction seaward of the Coastal Construction Control Line will not interfere with sea turtle nesting, will utilize native vegetation for dune stabilization, will maintain the natural beach profile, will minimize interference with natural beach dynamics, and where appropriate, will restore the historical dunes and will vegetate with native vegetation. Collier County recommends that the reference to the Coastal Construction Control Line be changed to the Coastal Construction Setback Line.

Policy 10.4.9 prohibits the construction of seawalls fronting the Gulf of Mexico, except in extreme cases of hardship. Collier County recommends a further explanation as to what “extreme cases of hardship” entails.

Policy 10.4.10 expressly states that vehicle traffic or traffic on the beach and primary dunes is prohibited except for emergency and approved maintenance purposes. The County will enforce this requirement with the existing Vehicle On The Beach Ordinance. Collier County recommends inserting the actual ordinance number for cross-referencing purposes.

Policy 10.4.11 recommends that the County develop tax incentives and other land use incentives to encourage additional access or parking areas to provide utilization of high capacity urban beaches. Collier County recommends that this policy be retained.

Policy 10.4.12 stipulates that in permitting the repair and/or reconstruction of shore parallel engineered stabilization structures, require, where appropriate, at a minimum: a.) All damaged seawalls will be replaced with, or fronted by; b.) Where appropriate, repaired structures will be redesigned. Collier County recommends that this policy be reworded for clarity.

Policy 10.4.13 recommends that all development and redevelopment proposals must consider the implications of a potential rise in sea level. Collier County recommends that policy 10.4.13 be retained.

OBJECTIVE 10.5:

For undeveloped shorelines, provide improved opportunities for recreational, educational, scientific, and esthetic enjoyment of coastal resources by protecting beaches and dunes and by utilizing or where necessary establishing construction standards, which will minimize the impact of manmade structures on the beach and dune systems.

Objective Achievement Analysis:

Collier County recommends that this objective be retained but that certain of its enabling policies should be revised.

Policy Relevance:

Policy 10.5.1 explicitly states that recreation is the most compatible use with the natural functions of beaches and dunes. This policy should be retained.

Policy 10.5.2 prioritizes the County's shoreline acquisition efforts in order to meet the projected need for additional public beaches. Collier County recommends that this policy be retained.

Policy 10.5.3 prohibits activities which would result in man induced shoreline erosion beyond the natural beach erosion cycle or that would deteriorate the beach dune system. Collier County recommends that this policy be deleted because it is an exact copy of Policy 10.4.3.

Policy 10.5.4 prohibits the construction of any structure seaward of the Coastal Construction Control Line. Exception is made for passive recreational structures access crossovers, and where enforcement would not allow any reasonable economic utilization of such property. In the latter event, the policy requires construction that minimizes interference with natural function of such beaches and dunes. This policy should be deleted as it duplicates Policy 10.4.7.

Policy 10.5.5 prohibits motorized vehicles on the beaches and dunes except for emergency and maintenance purposes. The County shall enforce this requirement with the existing Vehicle On The Beach Ordinance. Collier County recommends that this policy be deleted because was already stated in Policy 10.4.10.

Policy 10.5.6 stipulates that the County shall regulate activities so that they will not threaten the stability of the dunes or the beach itself. Collier County recommends that this policy be retained.

Policy 10.5.7 recommends that the County actively pursue the acquisition of undeveloped beaches and dunes as the first alternative to development. Collier County recommends that policy be retained.

Policy 10.5.8 prohibits shoreline-armoring processes and encourages non-structural methods for stabilizing beaches and dunes. Collier County recommends that this policy be retained.

Policy 10.5.9 prohibits the construction seaward of the Coastal Construction Control Line except as follows: a.) Construction will be allowed for public access; b.) For protection and restoration of beach resources; c.) In cases of demonstrated land use related hardship or safety concerns as specified in the 1985 Florida Coastal Zone Protection Act, there shall be no shore armoring allowed except in cases of public safety. Collier County recommends that this policy be deleted because it essentially duplicates previous policies.

Policy 10.5.10 mandates that all construction activities cannot interfere with sea turtle nesting, must preserve or replace any native vegetation on the site, and must maintain the natural beach profile and minimize interference with natural beach dynamics and function. Collier County recommends that this policy be deleted as it essentially duplicates Policy 10.4.8.

Policy 10.5.11 states the County will waive all other non-safety related setback requirements and site planning requirements before allowing construction seaward of the Coastal Construction Control Line. Collier County recommends that this sentence be reworded to specify which non-safety related setback requirements and site planning requirements should be waived.

Policy 10.5.12 states that all beachfront land development related projects require dune stabilization and restoration improvements, the removal of exotic vegetation, and replacement with native vegetation, as appropriate. Collier County recommends that this policy be retained.

OBJECTIVE 10.6:

The County shall conserve the habitats, species, natural shoreline and dune systems contained within the County's coastal zone.

Objective Achievement Analysis:

Collier County recommends that this objective be retained but that certain of its, enabling policies should be revised.

Policy Relevance:

Policy 10.6.1 specifies that in addition to those applicable policies supporting Objectives 10.1, 10.2, 10.3, 10.4, and 10.5 development within the County's coastal zone must also meet additional criteria for preserving both undeveloped coastal and inshore marine habitats. Collier County recommends that this policy be retained.

Policy 10.6.2 states that the requirements of Policy 10.6.1 identify the guidelines and performance standards for the undeveloped coastal barriers and estuaries contained within the coastal barrier and estuarine NRPA (CCME Policy 1.3.2). These standards therefore satisfy the requirements of CCME Policy 1.3.2. Collier County recommends that this policy be revised because it improperly references Policy 1.3.2, which pertains to the overall purpose and description of the Rural Lands Stewardship Area Overlay program.

Currently, the CCME contains two (2) Policy 10.6.3s. The first Policy 10.6.3 requires all shoreline development projects where an EIS is required to demonstrate that the project will remain fully functional for its intended use after a six-inch rise in sea level. The second Policy 10.6.3 officially declares that Collier County supports federal and state agency efforts to deny permits and establish a permanent moratorium on offshore oil and gas exploration and drilling along the west coast of Florida and, to the extent allowed by law, will take appropriate actions to oppose any offshore oil and gas exploration and drilling projects in this sensitive area. Collier County recommends that both policies be retained. However, the second Policy 10.6.3 should be renumbered as Policy 10.6.4.

OBJECTIVE 11.1:

To protect historic and archaeological resources in Collier County.

Objective Achievement Analysis:

Collier County recommends retaining this Objective as written.

Policy Relevance:

Policy 11.1.1 requires that the County continue to enforce regulations regarding development and other land alteration activities that ensure the conservation, sensitive re-use, preservation of significant historic and archaeological resources, or appropriate mitigation in accordance with State standards. This Policy should be retained.

Policy 11.1.2 requires that there will be no loss of historic or archaeological resources on County-owned property and historic resources on private property will be protected, preserved or utilized in a manner that will allow their continued existence. Furthermore,

the County has listed specific conservation techniques to carry this out. This Policy should be retained.

Policy 11.1.3 explicitly states that, if during the course of site clearing, excavation, or other constructional activities, an archaeological or historical site, artifact, or other indicator is discovered, development activities at that specific archaeological site must be immediately stopped and the appropriate agency notified. Development will be suspended for a sufficient length of time to enable the County or a designated consultant to assess the find and determine the proper course of action in regard to its salvageability. The County will respond to any such notification in a timely and efficient manner so as to provide only a minimal interruption to any constructional activity. Collier County is not recommending any changes to this policy.

OBJECTIVE 12.1:

The County will maintain the 1994, hurricane evacuation time for a Category 3 storm at a maximum of 28 hours as defined by the 1996 Southwest Florida Regional Planning Council Hurricane Evacuation Study Update, and reduce that time frame by 1999, to 27.2 hours. Activities will include on-site sheltering for mobile home developments, increased shelter space, and maintenance of equal or lower densities of the Category 1 evacuation zone as defined in the 1996 Southwest Florida Regional Planning Council Hurricane Evacuation Study Update.

Objective Achievement Analysis:

Collier County recommends that this objective be revised to reflect the recent publication of the Southwest Florida Regional Planning Council's "Regional Hurricane Evacuation Study Update, 2001" and the revision of specific, enabling policies.

Policy Relevance:

Policy 12.1.1 states that a comprehensive awareness program will be developed and publicized prior to May 30th of each year. Evacuation zones and routings will be printed in each local newspaper. This information will be made readily available to all hotel/motel guests. Collier County recommends that this policy be revised to include all alternative media forums, such as the Internet.

Policy 12.1.2 requires that all Land use plan amendments in the Category 1 hurricane vulnerability zone will only be considered if such increases in densities provide appropriate mitigation to reduce the impacts of hurricane evacuation times. Collier County recommends that this policy be retained.

Policy 12.1.3 requires that the County continue to identify shelter space that complies with Red Cross standards for 45,000 persons by 1998 and 60,000 by 2002. Shelter space will be determined at the rate of 20 square feet per person. Collier County recommends that these dates and numbers be revised based upon the figures computed from the Southwest Florida Regional Planning Council's Hurricane Evacuation Study Update 2001.

Policy 12.1.4 requires the County to continue to maintain requirements and standards for hurricane shelters for all new or existing mobile home subdivisions in the process of expanding, which are 26 units or larger in size to provide emergency shelter on-site or provide funding to enhance existing public shelters off-site. Building will be of such a size to house park residents at the rate of 20 sq. ft per resident. Resident size will be estimated by averaging park population during the June-November time frame. On-site shelters will be elevated to a minimum height equal to or above the worst case Category 3 hurricane flooding level utilizing the current National Oceanic and Atmospheric Administration's storm surge model, known as Sea, Lake, and Overland Surges from Hurricanes (SLOSH). The wind loads applied to buildings will guide the design and construction of the required shelters and structures designated as "essential facilities" in the latest Standard Building Code, Table 1205. Shelters will be constructed with adequate emergency electrical power and potable water supplies; will provide adequate glass protection by shutters or boards; and will provide for adequate ventilation, sanitary facilities and first-aid equipment. A telephone and battery-operated telephone is also required within the shelter. Collier County highly recommends that this policy be broken into at least two (2) separate policies, revise the reference to a "telephone and battery-operated telephone" to a battery-operated radio capable of receiving commercial broadcast and NOAA weather alerts, and a proposed new methodology for estimating the average park (trailer parks/mobile homes) population during the June-November time frame.

Policy 12.1.5 requires that the directors of the Transportation and Emergency Management Departments will review, at least annually, evacuation route road needs to assure that necessary improvements are incorporated within Capital Improvement and Traffic Circulation Element projects, as indicated in Table 1 of the Appendix. Collier County recommends listing of the source, that being which GMP Element, Table 1 is in reference to. Collier County also recommends the change in title for the mentioned department heads of the Collier County's Transportation Planning and Emergency Management departments.

Policy 12.1.6 requires that the County will update the hurricane evacuation portion of the Collier County Peacetime Emergency Plan prior to June 1st of each year by integrating all regional and State emergency plans in the identification of emergency evacuation routes. Collier County recommends that the reference to "Collier County Peacetime Emergency Plan" be changed to "Collier County Comprehensive Emergency Management Plan."

Policy 12.1.7 recommends that the County's land development regulations include mitigation policies addressing flood plains, beach and dune alteration and storm water management. This policy should be retained.

Policy 12.1.8 requires the County, upon approval of the "Local Hazard Mitigation Strategy" by the Department of Community Affairs, to begin implementation of the Local Mitigation Projects as listed in the Plan. Collier County recommends that this policy be revised to reflect the ongoing nature of this task.

Policy 12.1.9 requires the County to construct all new Public Safety facilities to be floodproofed and designed to meet 160 mph wind load requirements. Collier County recommends that the wind load construction standard/requirement for all newly constructed public facilities be changed from 160 mph to 140 mph based upon the County's minimum design standard of a 140 m.p.h.

Policy 12.1.10 requires the County to continue to coordinate with Collier County Public Schools to ensure that all new public schools outside of the Coastal High Hazard Area be designed and constructed to meet the Public Shelter Design Criteria in "State Requirements for Educational Facilities" (1997), Section 5.4(15). Collier County recommends that the policy should be made consistent with the most up-to-date State requirements for educational facilities.

Policy 12.1.11 requires the County to continue to work with the Board of Regents, State University System to ensure that all new facilities in the State University System that are located outside of the Coastal High Hazard Area be designed and constructed to meet the Public Shelter Design Criteria in "State Requirements for Educational Facilities" (1997), Section 5.4(15). Collier County recommends that this policy be updated similar to Policy 12.1.10.

Policy 12.1.12 recommends that the County will continue to mitigate previously identified shelter deficiencies through mitigation from Developments of Regional Impact, Emergency Management Preparedness and Enhancement grants and from funds identified in the annual Shelter Deficit Studies. Collier County recommends that this policy be updated to include new funding sources for building hurricane evacuation shelters in Collier County.

Collier County recommends the insertion of a new Policy, between current Policies 12.1.12 and 12.1.13, to allow the County to evaluate whether to include hurricane shelters in the 5-year schedule of Capital Improvements as a Category A Public Facility.

Policy 12.1.13 requires that all new nursing homes and assisted living facilities that are licensed for more than 15 clients will have a core area to shelter residents and staff on site. The core area will be constructed to meet the Public Shelter Design Criteria that is required for new public schools and public community colleges and universities. Collier County recommends the updating this policy similar to Policies 12.1.10 and 12.1.11.

Policy 12.1.14 recommends that the County will consider establishing one-way evacuation routes on County maintained roads for storm events that have the potential for inundating low-lying populated areas. The County will coordinate with FDOT to consider one-waying State maintained roads that are primary evacuation routes for vulnerable populations. Collier County recommends revising this sentence and spelling out the acronym – FDOT.

OBJECTIVE 12.2:

The County shall ensure that building and development activities are carried out in a manner, which minimizes the danger to life and property from hurricanes. The public

shall limit its expenditures involving beach and dune restoration and renourishment, road repair, publicly owned seawalls, docking and parking area. All future unimproved requests for development in the coastal high hazard areas will be denied.

Objective Achievement Analysis:

Collier County recommends that this objective be revised for clarity.

Policy Relevance:

Policy 12.2.1 states that the Hazard Mitigation Annex of the peacetime Emergency Plan (PEP) will be reviewed and updated every three (3) years beginning in 1988. The Director will also incorporate hazard mitigation reports from other agencies into the Peacetime Emergency Plan. Collier County recommends that this policy be updated to revise the deadlines and to refer to the “Collier County Comprehensive Emergency Management Plan.” Also, this policy should be revised to include a periodic update of the County’s Hurricane Evacuation and Sheltering procedures.

Policy 12.2.2 states that the calculated needs for public facilities will be based on the adopted level of service standards and future growth projections within the coastal high hazard area. The Future Land Use Element limits new residential development, (thus obligation to infrastructure expenditures) to a maximum of four dwelling units per gross acre within the coastal high hazard area. In addition, existing zoning not vested is to be re-evaluated within three years and may change to a density level consistent with the Future Land Use Element. Collier County recommends revising this policy for clarity.

Policy 12.2.3 requires the County to participate in the National Flood Insurance Program (NFIP). Collier County recommends that this policy be retained.

Policy 12.2.4 requires the County to maintain requirements for structural wind resistance as stated in the latest approved edition of the Southern Standard Building Code. Collier County recommends that this policy be updated as necessary to reflect the correct building code terminology.

Policy 12.2.5 requires the County to consider the coastal high-hazard area as that area lying within the Category 1 evacuation zone as defined in the Southwest Florida Regional Planning Council Hurricane Evacuation Study Update. Collier County recommends that the reference to the “Southwest Florida Regional Planning Council Hurricane Evacuation Study Update” be changed to “Southwest Florida Regional Planning Council Hurricane Evacuation Study, 2001.”

Policy 12.2.6 states that the County will require that all new sanitary sewer facilities in the coastal high-hazard flood area be flood proofed, be designed to reduce leakage of raw sewage during flood events to the maximum extent practicable, and that new septic tanks will be fitted with back-flow preventers. Collier County recommends that Policy 12.2.6 should be retained.

Policy 12.2.7 states that the County will continue to assess all unimproved property within the coastal high hazard area and make recommendations on appropriate land use. Collier County recommends that the reference to “unimproved property” be clarified.

Policy 12.2.8 states that public facilities that are dependent on county funding will not be built in the Coastal High Hazard Area unless the facility is designed for public access or for resource restoration. Collier County recommends that this policy be retained as written.

OBJECTIVE 12.3:

The County shall develop and maintain a task force that will plan and guide a unified County response to post-hurricane disasters.

Objective Achievement Analysis:

Collier County recommends that this objective should be retained but that certain its enabling policies should be revised.

Policy Relevance:

Policy 12.3.1 requires the Comprehensive Emergency Management Plan to comply with the policies under this objective, and that the plan will contain step-by-step details for post disaster recovery. Collier County recommends that this policy be retained.

Policy 12.3.2 states that, after a hurricane that necessitated an evacuation, the Board of County Commissioners will meet to hear preliminary damage assessments. This will be done prior to re-entry of the population. At that time, the Commission will activate the recovery task force and consider a temporary moratorium on building activities not necessary for the public health, safety and welfare. Collier County recommends that this policy be retained.

Policy 12.3.3 recommends that the recovery task force will include local law enforcement authorities, the Community Development Administrator, Public Works Administrator, Planning and Zoning Director, Emergency Management Director and other members as directed by the Board of County Commissioners. Representatives from municipalities receiving damage from the storm should also be members of the recovery task force. This policy should be revised to correct the titles of the governmental departmental heads.

Policy 12.3.4 requires the recovery task force to review and decide upon emergency building permits, coordinate with State and Federal officials to prepare disaster assistance applications, analyze and recommend to the County Commission hazard mitigation options including reconstruction or relocation of damaged public facilities, recommend amendments to the Comprehensive Plan, Peacetime Emergency Plan and other appropriate policies and procedures. Collier County recommends that this policy be updated to reflect the change from “Peacetime Emergency Plan” to “Comprehensive Emergency Management Plan.”

Policy 12.3.5 requires the County to perform immediate repair and clean-up actions, when needed, to protect the public health and safety. Actions referenced in this Policy include repairs to potable water, wastewater, and power facilities, debris removal, stabilization or removal of structures that are in danger of collapsing, and minimal repairs to make dwellings habitable. These actions will receive first priority in permitting decisions. . Collier County recommends that this policy be retained.

Policy 12.3.6 stipulates that structures in the coastal high-hazard area, which have suffered damage to pilings, foundations, or load-bearing walls on one or more occasion, will be required to rebuild landward of their current location or to modify the structure to mitigate any recurrence of repeated damage. This Policy should be retained.

Policy 12.3.7 stipulates that the County will develop and adopt a Post-disaster Recovery, Reconstruction and Mitigation Ordinance prior to May 30, 1997, to evaluate options for damaged public facilities including abandonment, repair in place, relocations, and reconstruction with structural modifications. This process will consider these options in light of factors such as cost to construct, cost to maintain, recurring damage, impacts on land use, impacts on the environment and public safety. Collier County notes the outdated deadline of May 30, 1997 and recommends that this policy should be revised to reflect that the County has such an Ordinance in place.

Policy 12.3.8 requires the County, within 30 days of a hurricane resulting in disaster, to identify non-public structures in the coastal high-hazard area, inventory their assessed value, judge the utility of the land for public access and make recommendations for acquisition during post-disaster recovery. Collier County recommends that this policy should be retained.

OBJECTIVE 12.4:

The County shall make every reasonable effort to meet the emergency preparedness requirements of people with special needs such as the elderly, handicapped, the infirmed and those requiring transportation from a threatened area.

Objective Achievement Analysis:

The County's Emergency Management Department has expressed to the need to insert language into this Objective that addresses the auxiliary life support/safety requirements (e.g., respirators, oxygen tanks) for people with special needs. This objective should be revised by adding the requested equipment references.

Policy Relevance:

Policy 12.4.1 requires all new hospitals, nursing homes, and adult congregate living facilities to prepare an emergency preparedness plan for approval by the Emergency Management Department prior to receiving a final development order. This policy should be retained.

Policy 12.4.2 requires that the County, in cooperation with other public agencies and public service groups, will make a reasonable effort to provide for the emergency transportation needs of people having limited mobility that do not reside in licensed institutions serving people with special needs. This policy should be retained.

Policy 12.4.3 requires the County, in cooperation with the Collier County Health Department and other public service groups, to make a reasonable effort to provide basic medical services in selected shelters designated as special needs shelters. Collier County recommends that this policy should be retained.

OBJECTIVE 13.1:

To establish, prior to the adoption of any land development regulation to implement this Element, including but not limited to NRPA management guidelines and watershed management plans, a program to review such regulations and identify existing regulatory programs exercised by regional, State, or Federal agencies with jurisdiction over the activities sought to be regulated.

Objective Achievement Analysis:

This objective should be retained.

Policy Relevance:

Policy 13.1.1 requires the County to be vigilant in creating unnecessary duplication of existing Regional, State, or Federal permitting programs. This policy should be retained.

Policy 13.1.2 stipulates that the County may adopt regulations to strengthen existing permitting programs. The County recommends that this policy be retained.

Policy 13.1.3 requires the County, prior to adopting any new regulations to implement this Element, to meet the following guidelines: a.) It fulfills an important need not presently adequately met by existing Regional, State, or Federal regulation; b.) The regulation can be effectively and efficiently administered by authorized increases to County staff; and, c.) The cost to the County of implementing the regulation must have been identified and considered. Collier County recommends clarifying subsection c by explaining what “increases” means – increases in funding, increases in staff or both?