CONSERVATION ELEMENT
OF THE CITY OF PEMBROKE PINES
COMPREHENSIVE PLAN

RULES 9J-5.013, FAC

City of Pembroke Pines, Florida

ADOPTION DOCUMENT

CONSERVATION ELEMENT

CONSERVATION ELEMENT ADOPTION DOCUMENT

IV. GOALS, OBJECTIVES AND POLICIES

GOAL

Conserve, protect and appropriately utilize the City's natural resources.

OBJECTIVE I

Continue to protect, maintain or improve air quality in the City through 2015 in accordance with Broward County standards.

Evaluation Measure Objective I - Maintain records of permits reviewed by the Broward County Department of Planning and Environmental Protection.

Policy 1.1 - Continue to insure that all industrial uses within the community minimize the impact on air quality to the greatest extent possible through the utilization of the standards of the Broward County Department of Planning and Environmental Protection.

Policy 1.2 - Continue to implement the City's street tree planting program which aids in the maintenance of air quality.

Policy 1.3 - Continue to coordinate with Broward County, the State of Florida Department of Transportation, and other entities to facilitate alternative transportation modes, such as pedestrian walkways, bikeways, and public transit.

OBJECTIVE II

Conserve, appropriately use and protect the quantity and quality of the Region's water resources within the community through 2015 in accordance with Broward County standards and the adopted Lower East Coast Regional Water Supply Plan.

Evaluation Measures Objective II - Annual record of development permits issued in compliance with Section 156.30, City Code and the Broward County Wellfield Protection Ordinance, as amended; Annual record of development permits issued that are in compliance with Section 50.35, City Code, which requires irrigation water to be provided through a non-potable water supply; and annual record of updates to the City's Ten Year WSFWP consistent with updates to the Lower East Coast Regional Water Supply Plan

Policy 2.1 - Continue to coordinate with the Broward County Department of Planning and Environmental Protection and implement Section 156.30, City Code, to comply with the Broward County Wellfield Protection Program.

Policy 2.2 - Continue to implement the City's potable water program which complies with the SFWMD Chapter 40E-21 in the event a drought affects the amount of available potable water.

Policy 2.3 - All industrial and commercial car wash water will continue to be recycled where feasible in accordance with the criteria of the Broward County Department of Planning and Environmental Protection.

Policy 2.4 - All irrigation water for new development shall continue to be provided through a non-potable water supply in accordance with the land development regulations.

Policy 2.5 - Continue to implement Section 153.12, City Code, land development regulations that require xerographic landscaping to promote water conservation.

Policy 2.6 - The City shall, in coordination with the criteria of the Broward County Department of Planning and Environmental Protection and the South Florida Water Management District, develop, maintain and enforce land development regulations which protect or enhance potable water quality by restriction of activities known to adversely effect the quality of surface water and the Biscayne Aquifer, the City's sole potable drinking water source, and the quality and quantity of identified water sources including existing cones of influences, water recharge areas and waterwells (Previously submitted with Academic Village Amendment – DCA Reference No. 99-1).

Policy 2.7 - Coordinate with the Broward County Department of Planning and Environmental Protection in maintaining an inventory of commercial and industrial uses which utilize, produce, or dispose of hazardous chemicals as a means to track potential sources of water contaminants.

Policy 2.8 - Utilize inventory of septic tank locations in the City (see FLU-Appendix) in the preparation of a report to be submitted with the next EAR on the feasibility of converting from septic tanks to sanitary sewer as an alternative means to protect ground water quality.

Policy 2.9 - The City shall continue to require existing development using septic tanks to hook up to centralized sewer facilities as they become available in order to phase out septic tank systems in an economically feasible and environmentally sound manner.

Policy 2.10 - New septic tank systems shall only be permitted in accordance with the criteria and requirements of the Florida Department of Health.

Policy 2.11 - The City shall continue to coordinate with the Broward County Department of Planning and Environmental Protection to encourage the use of reclaimed water as part of the City's wastewater management strategies where economically, environmentally and technically feasible.

Policy 2.12 - The City will incorporate all Conservation Element objectives and policies which require coordination with other governmental entities in the City's Intergovernmental Coordination Element (ICE) during the amendment cycle following the update.

Policy 2.13 - In recognition that the City's role regarding the protection of the natural groundwater aquifer recharge system is limited to coordinating with Broward County agencies, data on the status of water quality in the City's wellfields along with effects of saltwater intrusion on groundwater resources will be collected, and existing data and analyses will be updated in the Ten Year Water Supply Plan.

Policy 2.14 - The City will continue to implement Chapter 152, City of Pembroke Pines Code of Ordinances, land development regulations which protect property from flood damage.

Policy 2.15 - The City will adopt the 10-Year Water Supply Facilities Work Plan to increase the coordination between land use and future water supply planning within 18 months of the adoption of the regional water supply plan as required by Chapter 163, State Statutes. The 10-Year WSFWP shall assess projected water needs and sources for at least a ten year planning period within the Potable Water sub Element of the Infrastructure Element. Capital Projects planned during the first five years of the WSFWP shall also be shown in the Capital Improvements Element *(cross-reference IE Policy 7.1 and CIE Policy 2.7)*.

Policy 2.16 – In order to protect and preserve the Biscayne Aquifer, the City will investigate utilization of alternate potable water resources to supplement the City's future water supply sources.

Policy 2.17 – The Work plan shall address each major type of water supply project - groundwater use optimization, conservation, reuse, and development of alternative water supply sources and water resources consistent with the Lower East Coast Regional Water Supply Plan *(cross-reference IE Policy 10.7)*.

Policy 2.18 – The WSFWP shall be updated to correspond with the Lower East Coast Regional Water Supply Plan updates. The WSFWP shall be reviewed annually and updated as needed, and shall include a minimum 10-year planning period to ensure that projected potable water demands are considered *(cross-reference IE Policy 9.3, Updated IE Policy 10.6, ICE Policy 1.9, and FLU Policy 10.6)*.

Policy 2.19 – Development orders shall not be issued prior to verification of adequate potable water supplies, consistent with adopted level of service standards, and in accordance with the concurrency management section of the Capital Improvements Element *(cross- reference Existing CIE Policy 2.5)*

OBJECTIVE III

Conserve, appropriately use and protect minerals and soils in the City through the year 2015.

Evaluation Measure Objective III - Annual record of engineering permits issued in compliance with Chapter 151, City Code.

Policy 3.1 - Continue to implement Chapter 151, City Code, land development regulations for the protection and restoration of soils in all mining and excavation operations in the City.

Policy 3.2 - Continue to implement Section 93.20, City Code, land development regulations which manage hazardous waste in order to protect natural resources.

OBJECTIVE IV

Conserve, protect, maintain or improve native vegetative communities, wildlife habitats, wetlands, Bald Eagle nesting sites, and marine habitats through 2015 in accordance with Broward County and City of Pembroke Pines standards.

Evaluation Measure Objective IV - Annual record of wetland mitigation and wildlife and vegetative community protection activities.

Policy 4.1 - Continue to implement Chapter 98, City Code, land development regulations which protect identified unique vegetative communities for protection consistent with the Broward County Tree Protection Ordinance, as amended.

Policy 4.2 - Continue to protect Taft/Palm Bird Rookery through monitoring and landscape maintenance and enhancement.

Policy 4.3 - Continue to coordinate with the Broward County Department of Planning and Environmental Protection, South Florida Water Management District, and other entities in the implementation of land development regulations that protect the Chapel Trail Conservation District, Florida's first wetlands bank on 450 acres.

Policy 4.4 - Continue to coordinate with the Broward County Department of Planning and Environmental Protection, South Florida Water Management District, and other entities in the implementation of land development regulations which require conservation easements for all future mitigation areas during the platting, site plan and permitting processes.

Policy 4.5 - Continue to implement the master plan for the future use and access of the Chapel Trail Conservation District.

Policy 4.6 - Continue to implement Section 91.02, City Code, land development regulations which restrict activities known to adversely effect the survival of endangered and threatened wildlife.

Policy 4.7 - Continue to coordinate with the Broward County Department of Planning and Environmental Protection, South Florida Water Management District, and other entities in the implementation of criteria and land development regulations which protect and conserve natural functions of existing soils, wildlife habitats, rivers, lakes, floodplains and wetlands.

Policy 4.8 - Continue to coordinate with the Broward County Department of Planning and Environmental Protection, South Florida Water Management District, and other entities in the implementation of land development regulations which insure protection of existing natural reservations identified in the Recreation and Open Space Element and as identified by the City's map series which will be updated on an as needed basis consistent with the Broward County map series.

Policy 4.9 - Continue to cooperate with adjacent local governments to conserve, appropriately use and protect unique vegetative communities which are multi-jurisdictional in nature.

Policy 4.l0 - Continue to utilize the Broward County Urban Wilderness Park System as a means of designating environmentally sensitive lands for protection based upon the criteria of the goals and objectives of the Conservation Element.

Policy 4.11 - Wetland vegetative communities included on parcels designated “natural reservations" shall be restored, conserved and protected or used for water management purposes in accordance with the criteria of the Broward County Department of Planning and Environmental Protection, the South Florida Water Management District, the US Army Corps of Engineers, and other entities through the year 2015 (Previously submitted with Academic Village Amendment – DCA Reference No. 99-1).

Policy 4.12 - In conjunction with urban development on parcels of land, exotic plants such as melaleuca and Brazilian pepper shall continue to be removed and measures shall continue to be enforced to prevent reestablishment (Previously submitted with Academic Village Amendment – DCA Reference No. 99-1).

Policy 4.13 - Continue to reduce the spread of exotic plants such as melaleuca, brazilian pepper and noxious aquatic vegetation and restore or enhance degraded natural areas in accordance with the criteria of the Broward County Department of Planning and Environmental Protection, the South Florida Water Management District, the US Army Corps of Engineers, and other entities through the year 2015 (Previously submitted with Academic Village Amendment – DCA Reference No. 99-1).

Policy 4.14 - The City shall protect listed animal species and/or native habitat of listed species in accordance with the Florida Fish and Wildlife Conservation Commission, as amended, by updating Chapters 91 and 156, the City’s land development regulations no later than 2008, to include a reference to the list (Previously submitted with Academic Village Amendment – DCA Reference No. 99-1).

Policy 4.15 - Historically significant wetland areas identified in the City’s map series contained in the Recreation and Open Space Element as “Natural Reservations” shall continue to be restored and protected from urban redevelopment in accordance with the with the criteria of the Broward County Department of Planning and Environmental Protection, the South Florida Water Management District, the US Army Corps of Engineers, and other entities through the year 2015 (Previously submitted with Academic Village Amendment – DCA Reference No. 99-1).

Policy 4.16 - The City shall continue to coordinate development with existing resource protection plans such as aquatic preserve habitat management plans and South Florida Water Management District's SWIM Plan, Lower East Coast Regional Water Supply Plan, *and* the East Coast Buffer/Water Preserve Area Plan (Previously submitted with Academic Village Amendment – DCA Reference No. 99-1).

Policy 4.17 - New archeological sites obtained from the Florida Master Site File Inventory were added to the City's natural resources map series (Map No. CE-2, CE – Appendix – Maps – Page 1) and will be updated on an as needed basis.

Policy 4.18 - The City shall continue to distribute land uses in a manner that avoids or minimizes, to the greatest degree practicable, the effect and impact on wetlands in coordination with Broward County. Those land uses identified in Table CE – III as being incompatible with the protection and conservation of wetlands and wetland functions shall be directed away from wetlands, or when compatible land uses are allowed to occur, shall be mitigated or enhanced, or both, to compensate for loss of wetland functions in accordance with Broward County Code of Ordinances, Chapter 27, Article XI, Aquatic and Wetland Resource Protection.

Policy 4.19 - The City shall continue to encourage the removal of invasive exotic species and the maximization of native plants as a condition of development approvals.

Policy 4.20 - The City shall encourage the use of pervious areas within public rights-of-way as opportunities to re-establish native vegetation, particularly in residential swales.

Policy 4.21 – The City shall continue to participate in programs to restore and protect the ecological values and functions of the Everglades Ecosystem in order to increase habitat area, regional water storage, and water quality restoration.

Policy 4.22 – The City shall apply xeriscape and other water conservation methods when considering planting materials within road medians and swales.

Policy 4.23 - The City shall apply conservation strategies as identified by the Water Conservation Plan submitted with the City's consumptive use permit including but not limited to xeriscape landscaping, leak detection program, water conserving rate structure, permanent irrigation ordinance and installation of rain sensor devices, and amend the Land Development Regulations accordingly during the next amendment cycle.

Policy 4.24 - The City shall protect and preserve Bald Eagle nesting sites and promote educational programs for the residents by establishing a Pembroke Pines Bald Eagle Sanctuary Protection ordinance to be adopted no later than September 2011.

Policy 4.25 - Identify, prioritize, and recommend alternative actions to control public access and coordinate with federal, state, regional, county and local agencies to explore safe parking options and viewing areas during nesting season.

Policy 4.26 - Continue to coordinate with the Eagle Sanctuary Steering Committee in the development of plans and in the identification of funding sources for sanctuary activities including the installation of a web cam, public education programs, signage, and research.

TABLE CE-II

Compatibility of Land Uses Relative to the Wetland Benefit Index

Wetland Benefit Index	**Land Use Compatibility**
1.Wetlands with a Wetland Benefit Index (WBI) value greater than Or equal to 0.80.	1.There is a rebuttable presumption that all land uses except for conservation uses are incompatible.
2. Wetlands with a WBI value less than 0.8.	2. All land uses are compatible, provided that the wetland impact compensation requirements of Chapter 27, Article XI, are satisfied.

Source: Broward County Code of Ordinances, Chapter 27, Article XI, Aquatic and Wetland Resource Protection.