POTABLE WATER ELEMENT

Goal 4.0. Provide residents of the Unincorporated Area, customers, and large users of Broward County utility districts a cost-effective and equitable potable water supply system which provides an adequate supply of water meeting all applicable federal, state and local water quality standards and does not compromise the sustainability of the county's water resources or ability to supply water in the future.

Objective 4.1. Broward County Water and Wastewater Services (WWS) shall identify and, where feasible, correct existing potable water facilities' deficiencies by 2018.

Policy 4.1.1. In the absence of legal constraints on the use of revenues, Broward County WWS should maintain funding for systems improvements identified in the Capital Improvements Element to alleviate potable water deficiencies consistent with the Capital Projects Prioritization system established by Broward County WWS on July 3, 2001.

Policy 4.1.2. Broward County WWS shall develop and maintain an inventory of all its potable water.

Objective 4.2. Potable water facilities shall be provided to meet the County's short-term and long-term future needs.

Policy 4.2.1. The level of service (LOS) standard for potable water facilities shall be the Florida Department of Environmental Protection Permitted Capacity of the facility. The LOS standard for water treatment plants shall be measured by maximum daily flow.

Policy 4.2.2. Broward County WWS shall access adequacy of service and concurrency for potential Broward County retail customers. For Coconut Creek, a bulk purchaser of potable water, Broward County WWS will use the flow information contained in the Health Department permit application to access adequacy of service and concurrency.

Policy 4.2.3. The Broward County Health Department, Florida Department of Health, shall continue to utilize the development review process of the Broward County Land Development Code to require applicants for development permits to utilize existing potable water facilities if lines are "available" as defined by Chapters 62-550, 62-555, and 62-560, Florida Administrative Code (FAC).

Policy 4.2.4. Prior to approval of a building permit, Broward County shall consult with the appropriate water supplier(s) to determine whether adequate water supplies to serve the new development will be available no later than the anticipated date of issuance of a certificate of occupancy.

Policy 4.2.5. Planning for additional capacity and/or a reduction in per capita demand shall be included in the 10-Year Water Supply Facilities Work-plan as required in Chapter 163 of Florida Statutes to increase the coordination of local land use and future

water supply planning.

Policy 4.2.6. An assessment of the impacts of the construction and operation of water treatment plants and support services on adjacent natural resources shall be prepared during site review when considering the siting of new water treatment plants and the expansion of, or increase in capacity of, water treatment plants.

Policy 4.2.7. In the event of a dispute involving the siting of, the expansion of, or the increase in capacity of, water treatment plants, the affected parties, if all affected parties agree, may opt to use the dispute mediation process of the South Florida Regional Planning Council (SFRPC).

Policy 4.2.8. In order to protect and conserve the Biscayne Aquifer, and limit demands on the regional water management system, the Broward County Environmental Protection and Growth Management Department (EPGMD) shall continue to investigate utilization of alternate water sources to supplement and broaden the county's future water supply sources as described in the 10-Year Water Supply Facilities Workplan. These potential sources could include the increased use of reclaimed wastewater, improved methods of conservation, development of the Floridan Aquifer, Aquifer Storage and Recovery (ASR), improved operations to increase stormwater reuse and aquifer recharge by improvements to the secondary canal infrastructure, and other technologies and management strategies which may be reflected in the Lower East Coast Water Supply Plan 2005-2006 Update of the South Florida Water Management District (SFWMD).

Policy 4.2.9. Broward County WWS will construct alternative water supplies by the year 2013 sufficient to meet its needs to the year 2023.

Policy 4.2.10. Broward County shall encourage maximizing the use of existing potable water facilities and reducing redundant facilities, consistent with current water policy, including the Regional System Water Availability Rule adopted February 15, 2007 by the SFWMD.

Policy 4.2.11. Broward County shall promote the implementation of an integrated geographic information system in order to make available standardized land use and potable water supply facilities information for local and regional planning.

Policy 4.2.12. Broward County shall update the Retail Service Water and Wastewater Master Plan after 2010 census data and resulting revised population projections are available.

Objective 4.3. Utilize existing potable water facilities to the extent permitted and encourage compact urban growth patterns.

Policy 4.3.1. Broward County WWS shall continue to utilize the development review process of the Land Development Code to require applicants for development permits within the County's utility districts to enter into an agreement to "tie-in" to existing facilities or construct improvements to the County's potable water system necessitated by the proposed development when adequate facilities, based on the adopted level of service standard, are not available and no fiscally feasible plan to construct or expand said facilities is proposed.

Policy 4.3.2. Broward County shall continue to coordinate the provision of potable water through agreements with the municipalities and other service providers in Broward County.

Policy 4.3.3. The Planning and Redevelopment Division (PRD) shall recommend the denial of future land use map amendments where densities or intensities are increased if:

1. Plans do not demonstrate that adequate water supplies and associated public facilities will be available to meet the projected growth demands

2. There is not a reasonable expectation that a consumptive use permit for the proposed water resource will be issued by the South Florida Water Management District.

3. Plans to extend and/or develop potable water resources and facilities do not include a financially feasible capital improvement program.

Policy 4.3.4. As an alternative to new potable water facility construction, Broward County shall identify opportunities to increase the efficiency and optimization of existing facilities, while promoting water conservations initiatives.

Policy 4.3.5. Broward County shall encourage the use of coordinated regulatory and programmatic approaches and financial incentives to promote compact, efficient urban growth patterns.

Objective 4.4. Conserve and protect potable water resources with primary focus on the Biscayne Aquifer by optimizing the utilization of water resources through effective water management practices.

Policy 4.4.1. Broward County shall develop a basin-wide water management protocol that optimizes flood protection, water quality, stormwater storage, wetlands sustainability, and groundwater recharge functions while protecting groundwater from saltwater intrusion. Hydrologic models shall be developed and maintained based on assessment of existing surface water management system, wellfields and their characteristics, groundwater levels, saltwater intrusion limits, flows and canal stages, to

better guide water resource planning and management decisions.

Policy 4.4.2. Broward County shall continue to coordinate with the Independent Drainage Districts and the SFWMD to investigate application of the basin-wide protocols throughout the county where appropriate.

Policy 4.4.3. Broward County shall continue to maintain Chapter 36, "Water Resources and Management," Article II, "Water Emergencies," Section 36-55, "Restrictions on landscape irrigation," Broward County Code of Ordinances, which imposes year-round, county-wide landscape irrigation restrictions.

Policy 4.4.4. The Broward County Permitting, Licensing, and Consumer Division (PLCPD) shall continue to enforce Chapter 39, "Zoning," Article VIII, "Functional landscaping and Xeriscaping," Broward County Code of Ordinances, which reflects the NatureScape Broward program principles.

Policy 4.4.5. The Broward County Permitting, Licensing, and Consumer Protection Division (PLCPD) shall enforce Section 604.4, Maximum flow and water consumption of the Florida Building Code, Plumbing, which contains standards for ultra-low volume plumbing fixtures to be used in all new construction. See Table 4-A, Maximum Flow Rates and Consumption for Plumbing Fixtures and Fixture Fittings.

The Broward County Board of Rules and Appeals has approved the standards in Table 4-A for plumbing fixtures between 60-80 psi,

TABLE 4-A
MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS

Plumbing Fixture or Fixture Fitting	Maximum Flow Rate or Quantity
Lavatory, private	2.2 gpm at 60 psi
Lavatory, public, (metering)	0.25 gallon per metering cycle
Lavatory, public, (other than metering)	0.5 gpm at 60 psi
Shower Heads[a]	2.5 gpm at 80 psi
Sink Faucets	2.2 gpm at 60 psi
Urinal	1.0 gallon per flushing cycle
Water closet	1.6 gallon per flushing cycle

For SI: 1 gallon = 3.785 L, 1 gallon per minute = 3.785 L/m,
1 pound per square inch = 6.895 kPa.
a. A hand-held shower spray is a shower head.
b. Consumption tolerances shall be determined from referenced standards

Policy 4.4.6. Broward County WWS shall continue to implement its conservation-oriented rate structure within its WWS utility systems.

Policy 4.4.7. Broward County WWS shall continue to implement a leak detection program to reduce the amount of unaccounted-for water loss within its Broward County utility systems.

Policy 4.4.8. Broward County shall continue to develop and implement County-wide water conservation programs and initiatives including the Water Matters education and outreach program, NatureScape Broward, and the NatureScape Irrigation Service (NIS).

Policy 4.4.9. Broward County WWS will gather a comprehensive water use profile for service area customers including demographic data, customer class, land use, rate profiles, usage patterns and seasonal variations to increase the effectiveness of conservation efforts by focusing methods on those elements with the greatest water saving potential. Using the data generated, Broward County will expand and/or implement those programs that promote conservation of water resources. In addition, Broward County shall expand and continue to implement programs that promote conservation of water resources through efforts such as plumbing retrofit, toilet rebates, water use audits, installation of rain sensors, promotion of Florida-friendly landscaping and landscape Best Management Practices (BMPs), and education as applicable.

Policy 4.4.10. The Broward County Health Department, Florida Department of Health shall reduce potential groundwater pollution sources by continuing to implement Chapter 34, "Water and Sewers," Article II, "Water and Sewer Connection Ordinance,"

Broward County Code of Ordinances.

Policy 4.4.11. The Broward County Health Department, Florida Department of Health shall continue to protect the groundwater supply from potential sources of contamination pursuant to Chapter 34, "Water and Sewers," Article II 2, "Water and Septic Tank Ordinance," Broward County Code of Ordinances

Policy 4.4.12. Broward County shall protect groundwater quality by continuing to implement Chapter 27, Article XIII Wellfield Protection Ordinance, Broward County Code of Ordinances, which regulates the storage, handling, usage, disposal or production of hazardous materials and solid waste within designated zones of influence as identified in the Code.

Objective 4.5. Potable water facilities shall be designed, constructed, maintained and operated in such a manner as to protect the functions of natural groundwater recharge areas and natural drainage features and not exacerbate saltwater intrusion.

Policy 4.5.1. The design for the construction, operation and maintenance, of new or expanded potable water facilities shall consider the short-term and long-term impacts to natural groundwater recharge areas, wetlands, surface and groundwater levels, and exacerbation of saltwater intrusion. The design shall also consider whether or not the construction, operation and maintenance will significantly harm the aquifer system or result in any additional demand upon the regional system. Adverse impacts of construction, operation, and maintenance shall be avoided or at least minimized.

Objective 4.6. Provide the customers and large users of Broward County WWS a cost effective, equitable and adequate potable water system meeting all applicable federal, state, and local standards; and provide the residents of unincorporated Broward County a cost-effective, equitable and adequate potable water system meeting all applicable federal, state, and local standards.

Policy 4.6.1. Broward County WWS shall endeavor to provide service to incorporated areas contiguous to the Broward County service area when service is not anticipated to be provided by others.

Policy 4.6.2. Broward County shall continue to coordinate the provision of potable water services through agreements with municipalities and other service providers in Broward County.

Policy 4.6.3. In order to protect and conserve the Biscayne Aquifer, and ensure the availability of future water supplies, the Broward County Environmental Protection and Growth Management Department (EPGMD) shall investigate demand management and utilization of alternate potable water sources to supplement and broaden its future water

supply sources. These potential sources could include the Floridan Aquifer, reclaimed wastewater, ASR, desalination, capture and storage of excess storm water currently lost to tide and other technologies and water management strategies consistent to the goals of the SFWMD's Lower East Coast Water Supply Plan 2005-2006 Update.

Policy 4.6.4. Consistent with bonding requirements, Broward County will take no action by which the rights and benefits of its customers might be impaired or diminished.

Post-Adoption Revisions

1. This Element was amended in Cycle 2001-1 through Ordinance Number 2001-25 adopted on June 26, 2001.

2. This Element was amended in Cycle 2006-2 through Ordinance No. 2006-64 adopted on December 12, 2006.

3. This Element was amended in Cycle 2008-1 through Ordinance No. 2008-40 adopted on September, 09, 2008.

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