

RESOLUTION NO. 2021-

1 A RESOLUTION OF THE BOARD OF COUNTY
2 COMMISSIONERS OF BROWARD COUNTY, FLORIDA,
3 TRANSMITTING TO DESIGNATED STATE AGENCIES
4 PROPOSED AMENDMENTS TO THE BROWARD
5 COUNTY COMPREHENSIVE PLAN TEXT; AMENDING
6 BROWARD MUNICIPAL SERVICES DISTRICT ELEMENT,
7 CAPITAL IMPROVEMENTS ELEMENT, COASTAL
8 MANAGEMENT ELEMENT, DEEPWATER PORT
9 COMPONENT, INTERGOVERNMENTAL COORDINATION
10 ELEMENT, RECREATION AND OPEN SPACE ELEMENT,
11 TRANSPORTATION ELEMENT, AND WATER
12 MANAGEMENT ELEMENT RELATED TO THE PERIL OF
13 FLOOD; AND PROVIDING FOR AN EFFECTIVE DATE.

14 WHEREAS, Broward County adopted the Broward County Land Use Plan on
15 April 25, 2017 (the Comprehensive Plan and Land Use Plan shall collectively be
16 referred to as "the Plan");

17 WHEREAS, the Department of Economic Opportunity has found the Plan in
18 compliance with the Community Planning Act;

19 WHEREAS, Broward County now wishes to propose an amendment to the plan
20 text regarding the Broward Municipal Services District Element, Capital Improvements
21 Element, Coastal Management Element, Deepwater Port Component,
22 Intergovernmental Coordination Element, Recreation and Open Space Element,
23 Transportation Element, and Water Management Element related to the peril of flood
24 requirements of Section 163.3178(2)(f), Florida Statutes;

WHEREAS, the Environmental Protection and Growth Management Department,
as the local planning agency for the Broward County Comprehensive Plan, held its
hearing on the proposed amendment on July 23, 2021, with due public notice; and

1 WHEREAS, the Board of County Commissioners held its transmittal public
2 hearing on September 21, 2021, at 10:00 a.m., having complied with the notice
3 requirements specified in Section 163.3184, Florida Statutes, NOW, THEREFORE,
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5 BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF
6 BROWARD COUNTY:
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8 Section 1. The Board of County Commissioners hereby transmits to the
9 Department of Economic Opportunity, South Florida Regional Council, South Florida
10 Water Management District, Department of Environmental Protection, Department of
11 State, Department of Transportation, Fish and Wildlife Conservation Commission,
12 Department of Agriculture and Consumer Services, and Department of Education, as
13 applicable, for review and comment pursuant to Section 163.3184, Florida Statutes, the
14 Amendment 21-T2, which is an amendment to the Broward County Comprehensive
15 Plan text related to the Broward Municipal Services District Element, Capital
16 Improvement Element, Costal Management Element, Deepwater Port Component,
17 Intergovernmental Coordination Element, Recreation and Open Space Element,
18 Transportation Element, and Water Management Element related to the peril of flood.
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20 Section 2. The proposed amendments to the Broward County Comprehensive
21 Plan text are attached as Exhibit "A" to this Resolution.
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Section 3. EFFECTIVE DATE.

This Resolution is effective upon adoption.

ADOPTED this day of , 2021.

Approved as to form and legal sufficiency:
Andrew J. Meyers, County Attorney

By /s/ Maite Azcoitia 07/07/2021
Maite Azcoitia (date)
Deputy County Attorney

MA/gmb
07/07/2021
21-T2 BrowardNext.TransReso
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Exhibit A

A. BMSD Element:

POLICY BMSD 1.1.3 Future land uses ~~shall be designated~~ map amendments shall be evaluated with consideration of ~~appropriate~~ topography, soil conditions, ~~and~~ floodplain elevation, ~~and adopted sea level rise projections. to avoid flooding, erosion, and repetitive property loss.~~

POLICY BMSD 1.1.12 The BMSD Map Series shall display the following:

1. Existing and planned public potable water wells, cones of influence, and wellhead protection areas
2. Rivers, bays, lakes, floodplains, canals, and harbors
3. Wetlands
4. Minerals and soils
5. ~~Adaptation Action Areas~~ Broward County Land Use Plan's Priority Planning Areas Map
6. Designated Historic Preservation Sites
7. Floodplain elevations.

OBJECTIVE BMSD 1.2 – Future Land Use Map Amendments

Proposed amendments to the BMSD Future Land Use Map shall be evaluated based on the availability of public facilities and services, site suitability, compatibility with surrounding uses, complete streets, transportation infrastructure, affordable housing, ~~and~~ potential impacts on natural resources, and potential future impacts that may result from sea level rise.

POLICY BMSD 1.2.2 Availability and capacity of the following public facilities and services shall be considered:

1. Potable water
2. Sanitary sewer
3. Solid waste
4. Roads, sidewalks, and bicycle facilities
5. Public transit
6. Drainage, including impacts from potential sea level rise
7. Parks and recreation facilities
8. Hurricane shelters and evacuation routes
9. Public Schools.

B. Capital Improvement Element:

POLICY CI1.1 Capital projects will be evaluated using the following criteria:

1. Elimination of hazards that impact public health and safety,
2. Promotion of efficient development and prevention of urban sprawl,
3. Level of impact on operating budget,
4. Protection of prior infrastructure investments,
5. Consistency with County plans and the plans of other agencies,
6. Elimination of existing deficiencies,
7. Maintenance of adopted levels of service (LOS),
8. Availability of funds and reflection of sound fiscal policies,
9. Implementation of County Commission adopted goals, and

10. Climate resilience, including flooding and sea level rise.

POLICY CI2.1 Broward County, in conjunction with its municipalities and partner agencies, will work to ensure that adaptation to climate change impacts, especially sea level rise and flooding, is incorporated into the planning, siting, construction, replacement, and maintenance of public infrastructure in a manner that is cost-effective and that maximizes the use of the infrastructure throughout its expected life span.

POLICY CI2.2 Broward County, in conjunction with its municipalities and partner agencies, will make the practice of adapting the built environment to the impacts of climate change, sea level rise, and flooding an integral component of all planning and capital improvement processes.

POLICY CI2.3 Broward County will, in coordination with its municipalities, designate Adaptation Action Areas (AAA) per Florida State law, in order to:

1. Identify areas that are vulnerable to the impacts of rising sea level and flooding,
2. Identify and implement adaptation policies to increase community resilience,
3. Enhance the funding potential of infrastructure adaptation projects

The Broward County Commission, the Broward County Planning Council, or a municipality may apply for AAA of Regional Significance designation, if the problem(s) and proposed solution(s) of the proposed area demonstrate regional significance and conform with one or more of the criteria listed in Section 2: Implementation Requirements and Procedures, Subsection: Implementation Regulations and Procedures, No. 9 - Criteria for Designating Adaptation Action Areas of Regional Significance, of the Broward County Land Use Plan.

Areas designated by the County as AAA of Regional Significance will be added to the Priority Planning Areas for Sea Level Rise Map as part of the Broward County Land Use Plan.

C. Coastal Management Element:

OBJECTIVE CM6 Promote reduction of flood risk resulting from high-tide events, storm surge, flash floods, stormwater runoff, and sea level rise, in coastal areas, as well as areas connected to or influenced by coastal waters, through development and redevelopment principles, and strategic planning.

POLICY CM6.1 Broward County shall continue to use projections regarding rainfall, sea level rise, and storm surge, as well as the Broward County Land Use Plan's Priority Planning Areas Map to plan and develop strategies that reduce flood risk to development in the Broward Municipal Services District and County infrastructure and facilities.

POLICY CM6.2 Broward County shall ensure development and redevelopment projects are designed to ensure adequate surface water management that provides for water quality and flood protection, by applying the provisions of various plans and codes including, but not limited to the following:

1. Broward County Comprehensive Plan and associated maps;

2. Broward County Land Use Plan and associated maps;
3. Broward County Code of Ordinances,
4. Florida Building Code;
5. Federal Emergency Management Agency flood elevation maps and standards.

POLICY CM6.3 Broward County shall address the impacts of flood on the built environment through adaptive planning and shall collaborate with local and regional partners to secure funding for adaptation projects.

POLICY CM6.4 Broward County shall regularly assess and plan for public infrastructure, facilities and utilities as required by the Capital Improvements Element, including the impacts of potential floods and sea level rise.

POLICY CM6.5 Broward County shall support the operation, management and enhancement of drainage infrastructure to manage floods consistent with the Climate Change and Water Management elements.

POLICY CM6.7 Broward County shall limit capital investment in high-risk flood areas except for the following:

1. Maintenance and enhancement of natural areas and resources;
2. Investments in regional infrastructure and facilities, such as Fort Lauderdale-Hollywood International Airport and Port Everglades;
3. Investments in the Broward Municipal Services District that protect public infrastructure and facilities.

POLICY CM6.8 Broward County shall consider the potential impacts of floods when planning public infrastructure improvements.

POLICY CM6.9 By 2025, Broward County shall evaluate potential flood impacts that may result from hurricanes, rainfall patterns, and sea level rise upon public infrastructure, facilities, and utilities, and plan and implement mitigation strategies such as raising base finish floor standards and developing additional site design and stormwater management standards.

POLICY CM6.10 Broward County shall assist state agencies, as requested, in the enforcement and monitoring of compliance with the Department of Environmental Protection Coastal Construction Control Line regulations in accordance with Florida Statutes.

POLICY CM6.11 Broward County shall continue to support the reduction of flood insurance premiums for County residents through the following actions:

1. Participating in the National Flood Insurance Program's Community Rating System (CRS) administered by the Federal Emergency Management Agency (FEMA) to reduce flood losses;
2. Supporting programs and outreach which educate residents on the benefits of flood insurance, and their flood risk associated with high tide events, storm surge, flash

- floods, stormwater runoff, and the sea level rise;
3. Reviewing, developing, and enhancing standards and programs to mitigate increasing flood;
 4. Coordinating with relevant stakeholders to secure access to technical assistance and support for the County and municipalities;
 5. Supporting municipalities in their development of resiliency policies and implementation of prioritized hazard mitigation projects;
 6. Maintaining the enhanced Local Mitigation Strategy and local mitigation project lists.

D. Deepwater Port Component:

<p>OBJECTIVE P2.1 – PROTECTION FROM NATURAL HAZARDS</p> <p><u>PED The Port Everglades Department shall implement the measures required by Broward County and other agencies to protect human life and property from natural hazards, including airborne hazards, sea level rise, and potential flooding; and will work with Broward County in implementing the Broward County Enhanced Local Mitigation Strategy (2017) and ensure new Port facilities and infrastructure, including roads, are hardened from disasters related to wind and flood.</u></p>
<p>POLICY P2.1.1 - <u>PED The Port Everglades Department shall ensure that any habitable, non-residential buildings in special flood hazard areas are designed and constructed to reduce the potential for flooding and wind damage. All structures within the defined flood zones shall be constructed in accordance with the provisions specified in the Florida Building Code. (See Policy 2.1.2)</u></p>
<p>POLICY P2.1.2 - <u>PED The Port Everglades Department shall ensure that all buildings are designed and constructed in accordance with the Florida Building Code and as approved by Broward County and the appropriate municipality.</u></p>
<p>OBJECTIVE P2.2 – Coastal Storm <u>High Hazard</u> Areas</p> <p><u>PED The Port Everglades Department shall follow Broward County’s requirements for Coastal <u>High Hazard</u> Storm Areas, which shall be defined as the Category 1 and 2 Hurricane Evacuation Zones identified within as shown on the Broward County Land Use Map (Series) entitled "Flood Plains, Flood-Prone Areas, and Coastal Storm Areas."</u></p>
<p>POLICY P2.2.2 - <u>PED The Port Everglades Department shall continue to disallow the allocation of not use public funds expenditures for infrastructure improvements, that do not consider the potential impacts of sea level rise and flooding and that would promote residential development or the concentration of permanent populations within the Coastal Storm <u>High Hazard</u> Area. It shall also continue to and shall discourage any amendment to of the <u>Broward County Land Use Plan’s Port Everglades Transportation Area permitted uses section of the BCLUP and any amendment</u> of the Port Everglades Development District to allow permanent residential uses within the <u>PJA Port Jurisdictional Area.</u></u></p>
<p>OBJECTIVE P2.8 – POST-DISASTER REDEVELOPMENT</p>

~~PEB~~ The Port Everglades Department shall work with the EMD in the ongoing initiative to develop a Broward County Recovery Framework, a long-term strategic framework for post-disaster redevelopment in compliance with State guidelines.

E. Intergovernmental Coordination

OBJECTIVE IC7 – Ensure Adaptation to Climate Change Impacts. Broward County shall ensure that potential impacts from climate changes, including impacts resulting from floods, hurricanes, and sea level rise, ~~adaptation to climate change impacts, especially sea level rise~~, is are considered as ~~part of~~ during the planning, siting, construction, replacement, and maintenance of public infrastructure.

POLICY IC7.1 Broward County shall coordinate with local, regional, State, and federal government agencies to ensure that climate change impacts, especially impacts resulting from floods, hurricanes, and sea level rise, are considered during public infrastructure planning processes.

POLICY IC7.2 Broward County shall provide technical support for municipalities that seek to develop policies that mitigate or minimize climate change impacts, including:

1. Coastal and inland flooding;
2. Salt water intrusion; and
3. Other related impacts of climate change, including floods, hurricanes, and sea level rise.

POLICY IC7.3 Broward County shall coordinate with municipalities to designate Adaptation Action Areas, pursuant to Florida Statutes, for the purposes of:

1. Planning for climate change, including floods, hurricanes, and sea level rise;
2. Designating areas vulnerable to floods and sea level rise, including, but not limited to:
 - a. Areas below, at, or near mean high water;
 - b. Areas which have a hydrological connection to coastal waters; and
 - c. Areas designated as evacuation zones for storm surge; and
3. Prioritizing funding for infrastructure needs and adaptation planning.

POLICY IC7.4 Broward County shall collaborate with federal, State, regional, and local entities to:

1. Seek federal government technical and financial assistance to plan, develop, and implement projects and strategies that assess and mitigate impacts expected from climate change, including floods, hurricanes, and sea level rise;
2. Coordinate and advance strategies, programs, and other initiatives that reduce greenhouse gas (GHG) emissions; and
3. Encourage local governments to participate in the Federal Emergency Management Administration (FEMA) Community Rating System (CRS) program as it relates to flood plain management and assist those who participate to maintain and/or improve their ratings, as applicable.

POLICY IC7.5 Broward County shall continue to create collaborative intergovernmental practices and mechanisms in order to coordinate and advance strategies, programs, and

other sustainable initiatives throughout the County and region, that mitigate GHG emissions and protect and adapt the built and natural environments to the consequences of climate change, including floods, hurricanes, and sea level rise.

POLICY IC7.6 Broward County shall coordinate regionally with other Southeast Florida counties, academia, and State and federal government agencies in the analysis of climate change impacts, including sea level rise, drainage flood, and hurricane impacts, and the planning of adaptation measures.

POLICY IC7.7 Broward County shall continue to collaborate with municipalities, neighboring counties, and regional and state agencies, as well as private entities to create, develop, and implement a suite of planning tools for climate change mitigation and adaptation, including adaptation to floods, hurricanes, and sea level rise.

POLICY IC7.8 Broward County shall continue to collaborate with and support local and regional planning entities to ensure that plans, such as local municipal comprehensive plans, regional strategic plans, post-disaster mitigation plans, water management plans, and transportation plans are updated to provide for a sustainable environment and reflect the best available data and strategies for adapting to future climate change impacts, including sea, level rise, flood and hurricane impacts.

POLICY IC7.9 Broward County shall continue to actively participate in the Southeast Florida Regional Climate Change Compact, ~~working with our neighboring counties to make our region more~~ further climate change resilience, by sharing technical expertise, assessing regional vulnerabilities, advancing agreed upon mitigation and adaptation strategies, and developing joint regional, State and federal legislative policies and programs.

POLICY IC7.10 Broward County shall seek ~~to engage~~ the support of federal agencies, such as National Oceanic and Atmospheric Administration, U.S. Geological Survey, Federal Emergency Management Agency, Environmental Protection Agency, the U.S. Department of Interior, U.S. Department of Energy, and the U.S. Army Corps of Engineers, that can provide technological and logistical support to further State, regional, County, and local planning efforts in the assessment of climate change vulnerabilities (including sea level rise, flood, and hurricane impacts) and adaptation strategies.

F. Recreation and Open Space Element:

POLICY R4.3 Broward County Parks and Recreation Division, Environmental Planning and Community Resilience Division, and Highway Construction and Engineering Division shall study climate change, sea level rise, and potential flooding impacts on recreation and open space areas and facilities, including the cost impacts on net acreage, and include strategies and recommendations to address these impacts.

POLICY R4.5 Broward County shall support funding for sustainability of parks and recreation areas, including the possible costs of climate change, sea level rise, and potential flooding adaptation, by evaluating the current level of impact fees. Recommendations provided will be based on future needs and best practice examples.

G. Transportation Element:

OBJECTIVE T2.5 Broward County shall advance transportation and land use choices that: reduce fossil fuel use and vehicle miles traveled; improve the mobility of people, goods, and services; provide a diverse, efficient, and equitable choice of transportation options; and increase the County's resiliency to the impacts of climate change, including sea level rise and potential flooding.

POLICY T2.5.5 Broward County should assist in coordinating transportation-related adaptation policies across jurisdictional boundaries and ensure consistency among broader planning and plan implementation efforts, including the Broward County Emergency Management Enhanced Local Mitigation Strategy and Fort Lauderdale-Hollywood International Airport Master Plan. Specifically, strategies for preparing for sea level rise and potential flooding, such as increasing road surface elevation standards, subsurface stabilization, stormwater management and drainage, ~~and~~ adjustment of bridge heights to allow for navigation, and should shall be collaboratively assessed and implemented.

POLICY T3.2.2 Broward County shall make the most efficient use of transportation funding through implementation of, but not limited to, the following programs and activities:

1. Coordinate construction of roadway and utility projects to avoid duplicate construction costs and inconvenience to residents, where feasible;
2. Continue to add bicycle lanes and multimodal improvements as a part of roadway resurfacing projects, where feasible;
3. Continue to utilize the Complete Streets Team to prioritize Complete Streets projects and coordinate with municipalities, the Broward MPO, and FDOT on projects and to identify funding opportunities to expand the number of Complete Streets projects implemented each year;
4. Consider establishing public-private partnerships to enable the expedient construction and operations of major/critical transportation infrastructure projects; ~~and~~
5. Regularly apply for Broward MPO Complete Streets and other Localized Initiatives Program (CSLIP) grants and other local, State, and federal grants that support multimodal transportation planning, design, and construction;:-
6. Consider the impacts of potential sea level rise and flooding when planning transportation improvement projects and incorporate adaptation practices as needed to protect transportation infrastructure investments.

POLICY T4.2.7 The ~~2014~~ 2018 update to the Port Everglades Master/Vision Plan, which is a plan designed to maximize market share and revenue through a realistic five year facility development program within a framework of 10 and 20-year vision plans, shall guide Port development.

POLICY T4.2.8 Projects developed consistent with the 2019 update to the Port Everglades Master/Vision Plan shall consider the impacts of sea level rise and flooding

on Port improvements projects and incorporate adaptation practices to protect Port investments.

POLICY T4.5.11 Broward County shall collaborate with regional and local transportation partners, including FDOT and rail operators, to identify areas and projects most vulnerable to climate change and sea level rise and take appropriate action to increase resiliency to adverse physical, economic, and/or social impacts. The County shall continue to implement recommendations in the Southeast Florida Regional Climate Change Action Plan.

H. Water Management Element:

POLICY WM1.7 WWS will identify and evaluate the costs and benefits of climate change, sea level rise, and potential flooding adaptation alternatives; implement energy and other resource efficiencies; and incorporate resilient designs, while balancing operational, economic, and environmental effects, when evaluating construction of new, or retrofit of existing, potable water facilities and infrastructure.

POLICY WM1.12 WWS will implement construction of new, or retrofit of existing, sanitary sewer facilities and collection systems in coastal areas that are identified as potentially impacted by sea level rise and potential flooding by 2045, but may limit expenditures in Coastal Storm Areas consistent with the Capital Improvements Element (Objective CI2).

POLICY WM1.13 WWS will assess, identify, and evaluate the costs and benefits of the design, construction, and operation of storm water management facilities within its jurisdiction in a manner that conserves and enhances the availability of potable water and supports environmental resources, while preventing area flooding and protecting from sea level rise, potential flooding, and other climate change impacts when evaluating construction of new, or retrofit of existing, facilities.

POLICY WM2.5 Broward County will continuously update the future conditions map series, including wet season groundwater elevation and future condition flood elevation maps, to reflect impacts of projected sea level rise, potential flooding, and climate change for planning and regulatory purposes.

POLICY WM2.7 Broward County will support ongoing and enhanced development of regional hydrologic models, the integration of downscaled climate data, and continuous data collection to help predict and track the impacts of sea level rise, potential flooding, and changing rainfall patterns on groundwater levels, saltwater intrusion, and drainage infrastructure to support local planning and projects.

POLICY WM2.8 Broward County will use the Broward County Land Use Plan's Priority Planning Areas Map to identify assess water infrastructure at risk from unified projected sea level rise. ~~projections of 9 to 26 inches (timeframe of 2010 to 2060) and other climate change related impacts by 2025 and update this assessment every 5 years or as new data is available.~~ **(20-T4: Adopted June 15, 2021.)**

POLICY WM2.9 Broward County will coordinate with the County's drainage districts, municipal governments, SFWMD, Florida Department of Health (FDOH), and the Florida Department of Environmental Protection (FDEP) to study whether to build, modify, or relocate water, wastewater, and storm water transmission infrastructure to allow for strategic retreat from areas at risk from potential flooding and sea level rise.

POLICY WM2.12 Broward County will provide support to and coordinate with municipalities, drainage/water control districts, and the SFWMD in planning for climate adaptation and drainage system improvements, including improvements that may be required due to sea level rise and potential flooding.

OBJECTIVE WM3 – Water Resources Development, Permitting and Management
Broward County will develop and manage its water resources and related infrastructure in a manner that maximizes use of existing resources; is cost-effective; provides protection for existing resources, to the maximum extent practicable; meets all applicable federal, State, and local regulations; and takes into consideration the future water management challenges associated with adaptation to sea level rise, potential flooding, and climate change.

POLICY WM3.3 Potable water facilities will be designed, constructed, maintained, and operated with consideration given to the potential impacts of sea level rise, potential flooding, and climate change and in such a manner as to protect the functions of natural groundwater recharge areas, natural drainage features, and groundwater levels, without inducing the inland movement or upwelling of saline water into Underground Sources of Drinking Water (USDW), as defined in Chapter 62-528, FAC, and SFWMD Basis of Review for Water Use, as referenced in Chapter 40E-2, FAC.

POLICY WM3.4 Broward County will work to protect existing wellfields, water supplies, surface or subsurface storage facilities, control structures, water and wastewater treatment plants, and transmission infrastructure from increased coastal or inland flooding, sea level rise, saltwater intrusion, and other potential future climate change impacts, and support utility efforts to plan infrastructure replacement and relocation, as needed.

POLICY WM3.10 Broward County will collaborate with utilities, drainage districts, and the SFWMD South Florida Water Management District to ensure the adequacy of water supply facilities and infrastructure to effectively capture, store, treat, and distribute potable water under variable climate conditions, including changes in rainfall patterns, unified sea level rise projections, ~~of 9 to 26 inches from 2010 to 2060,~~ and flooding, and associated water quality and quantity impacts. **(20-T4: Adopted June 15, 2021)**

POLICY WM3.17 Broward County will encourage the use of storm water best management practices (BMPs) in accordance with its regulations and those of the FDEP and SFWMD in order to mitigate potential impacts of floods and protect water quality.

POLICY WM3.19 Broward County will continue to monitor the quality of waters flowing into the Broward County coastal ecosystems and implement strategies to maintain protection or improvement of the system, considering potential contamination resulting from floods, inundation, structural failure, or abandonment of residential, industrial, and municipal assets resulting from sea level rise, storm events, or other climate related impacts.

POLICY WM4.7 Broward County will coordinate regionally to advance the use of the IWRP and Countywide Reuse Master Plan tools to increase flood protection, water

quality treatment, water supply sources, storm water storage, wetland sustainability, ground water recharge, use of reclaimed water for irrigation, aquifer recharge, and environmental enhancement, where technically, environmentally, and economically feasible, to protect water resources and develop climate change, including potential flooding and sea level rise resilience.

POLICY WM4.9 Broward County, in cooperation with its municipalities and appropriate local agencies, will evaluate water and storm water management systems operation strategies in the context of potential flooding or sea level rise to: lessen negative impacts to parks and open spaces, wetland mitigation areas, and other natural systems; improve the ability of these systems to adapt to climate change, including potential flooding and sea level rise; and optimize the ability of these systems.

POLICY WM4.11 Broward County will work with the SFWMD and drainage districts to implement applicable portions of the most recent LECRWSP Update, intended to reduce losses of excess storm water to tidal runoff, recharge the Surficial Aquifer System, and provide additional storage of surface waters ~~in the context of sea level rise~~, in order to improve the ability of these systems to adapt to climate change, including potential flooding, sea level rise, and prevent saltwater intrusion.

POLICY WM4.12 Broward County will participate in intergovernmental coordination of subregional water supply projects and the development of alternative water supply projects to:

- ensure adaptation to climate change impacts, including potential flooding and especially adopted sea level rise projections, is incorporated into the project planning, siting, construction, replacement, and maintenance of water supply infrastructure;
- ~~in a manner that is~~ ensure projects are cost-effective; and,
- ~~and that~~ maximizes the use of the infrastructure throughout its expected life span.

POLICY WM4.13 Broward County will collaborate with local, regional, state, and federal agencies and others on potential impacts of flooding and climate change on the region's water resources and support the development of local integrated models and continuous data collection to help predict and track the impacts of sea level rise on groundwater levels, saltwater intrusion, and drainage infrastructure.

POLICY WM4.16 Broward County will coordinate with local municipalities and water and wastewater utilities to develop, by 2025, policies and plans that set short-, intermediate, and long-range goals and establish adaptive management implementation strategies for water and wastewater resources under their jurisdiction to address the potential operational, economic, and environmental effects impacts of floods, sea level rise, and climate change. ~~and its operational, economic, and environmental effects.~~

POLICY WM4.18 Broward County will coordinate with the SFWMD, local utilities and neighboring counties to develop regional water demand projection scenarios over a 100-year planning horizon that account for potential impacts of floods, sea level rise, and climate changes including changes in: (1) population and rates of water consumption; (2)

municipal, industrial, and agricultural demands; and (3) energy generation water demands due to the possible use of new fuel sources.

POLICY WM4.19 Broward County will collaborate with local, regional, state, and federal partner agencies to develop the scientific and technical knowledge needed to understand the potential impacts of of floods, sea level rise, and climate change on the region's water resources, evaluate various adaptation technologies, and, by 2025, create an adaptive response plan. Advanced hydrological modeling and engineering evaluations by SFWMD, USGS, and U.S. Army Corps of Engineers (USACE) will be especially critical to this effort.